

SUBJECT: OPTINET Base Rate Services

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The attached Methods and Procedures introduce a new Special Access service offering - OPTINET Base Rate Service.

The effective tariff date for this new service was October 15, 1990.

Please call the author if you have any questions.

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Attachments

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## 1. General Information

A new category of Special Access called OPTINET Services is being introduced, effective October 1990.

OPTINET Services integrate the existing Special Access High Capacity Services under a single product name and introduces a new digital services offering.

OPTINET Services are divided into three categories:

- A. OPTINET Base Rate Service - A new service offering which consists of channels operating at the terminating bit rates (speeds) of 2.4 Kbps, 4.8 Kbps, 9.6 Kbps, 56.0 Kbps and ~~10.8~~ 19.2 Kbps.
- B. OPTINET DS-1 Service - This is a new name for the existing Direct High Capacity Service (1.544 Mbps). A Dedicated Access Line (DAL) can also provide an OPTINET DS-1 between a customer designated premise and a WATS serving office when the WATS serving office is an appropriately equipped digital switch.
- C. OPTINET DS-3 Service - This is a new name for the existing Custom High Capacity (44.736 Mbps).

NOTE: OPTINET DS-1 and OPTINET DS-3 Services are name changes only. All existing methods still apply.

This M&P document will only address the new OPTINET Base Rate Services.

## 2. Service Description

OPTINET Base Rate Service is a new digital service offering. This service does not replace the existing Direct Digital Services (DDS).

OPTINET Base Rate Service may also be referred to as:

OPTINET 2.4	or	DA1 Service
OPTINET 4.8	or	DA2 Service
OPTINET 9.6	or	DA3 Service
OPTINET 56.0	or	DA4 Service
OPTINET 19.2	or	DA5 Service

Direct Digital Services are also referred to as DA 1-4 Services, but they are not the same as the OPTINET DA 1-5 Services.

OPTINET Base Rate Services:

- Will be capable of meeting a monthly average objective performance equal to or greater than 99.875% error-free seconds.
- Are non-hubbed services. Unlike Direct Digital Services, they do not have to ride a DS-1 or DS-0 Service before being extended to an end user premise.

- 2.4 Kbps, 4.8 Kbps, 9.6 Kbps and 56.0 Kbps services may be ordered as two point or multipoint service and are available with Central Office Bridging Capability and Secondary Channel optional features.
- 2.4 Kbps, 4.8 Kbps, 9.6 Kbps and 56.0 Kbps may also ride channels of an OPTINET DS-1 Service. (However, if more than 16 channels of the DS-1 Service are used for OPTINET Base Rate, credit allowances for out of service conditions may not apply unless the problem on the DS-1 channel is due to trouble originating on the Network.)
- 19.2 Kbps Service requires the customer to provide a Channel Service Unit equipped with the Secondary Channel enabled.
- May be ordered via month to month charging or via 12, 36 or 60 month Optional Payment Plan (OPP) periods.

The Administrative (ORCMX), Design and Central Office Connection (NRBCL) and the Customer Connection (NRBBL) nonrecurring charges (NRCs) apply to new installations and rearrangements of existing OPTINET Base Rate Services.

Customers choosing to change from existing Direct Digital Services (DDS) to the new OPTINET Base Rate Service must disconnect the OPTINET Base Rate Service and full NRCs will apply.

### 3. Network Channel (NC) Code

The OPTINET Base Rate Service Network Channel (NC) code is a four character code that specifies the characteristics of the basic channel and its optional features. The following chart depicts the valid NC entries:

Service Code (Pos 1 & 2)	Option Code (Pos 3)	Option Code (Pos 4)
XE	A (Without Secondary Channel)	- (None) B (Bridging)
XE	H (With Secondary Channel)	- (None) B (Bridging)

Note: 1. The actual speed of the OPTINET Base Rate Service will be indicated via the NCI code.

2. OPTINET Base Rate 19.2 Kbps Service is only a point-to-point service. Therefore, the only NC allowed for this speed is: XEA.

### 4. Network Channel Interface (NCI) Codes

Since the NC code XE is used for all OPTINET Base Rate Services, the NCI code will be used to determine the actual speed of the circuit.

Examples of valid NCI combinations are:

Example 1:    NC    =    XEA  
               NCI   =    04DU5.24  
               SECNCI =    04DU5.24

This combination indicates an OPTINET 2.4 Kbps Service without optional features.

Example 2:    NC    =    XEH  
               NCI   =    04DU5.56S  
               SECNCI =    04DU5.56S

This combination indicates an OPTINET Base Rate 56.0 Service with the Secondary Channel Optional Feature.

Example 3:    NC    =    XEAB  
               NCI   =    06DU5.48  
               SECNCI =    06DU5.48

This combination indicates an OPTINET Base Rate 4.8 Kbps Service with Central Office Bridging Capability.

Example 4:    NC    =    XEHB  
               NCI   =    04DS9.15  
               SECNCI =    04DU5.96S

This combination indicates an OPTINET Base Rate 9.6 Kbps Service with Secondary Channel and Central Office Bridging Capability.

A Connecting Facility Assignment (CFA) would also be required since the NCI 04DS9.15 indicates that this service is riding a higher speed service (i.e., an OPTINET DS-1 Service).

All compatible NCI/SECNCI combinations have been validated in EXACT.

5. Service Order Requirements

5.1 Circuit Identification

OPTINET Base Rate Services will be identified in serial number format.

Example: 44.XEGS.123456..WT

5.2 Class Of Service

Following are the Classes of Service USOCs for OPTINET Base Rate Services:

Speed	Class of Service
2.4 Kbps	XZD1X
4.8 Kbps	XZD2X
9.6 Kbps	XZD3X
56.0 Kbps	XZD4X
19.2 Kbps	XZD5X

### 5.3 Rate Elements

The rate elements applicable to OPTINET Base Rate Service are:

- Local Distribution Channel
  - T6ECS - Applies per termination (CKL)
- Channel Mileage
  - 1L5XX - Applies between the serving wire centers associated with two customer premises.
  - Applies between the serving wire center of a customer premise and a telephone company Hub.
  - Applies between Hubs.
  - CM6 - Applies per point of mileage termination.

#### 5.3.1 Optional Features

- Central Office Bridging
  - B5NGF - Applies on circuits with three or more circuit terminations.
  - Applies to 2.4 Kbps, 4.8 Kbps, 9.6 Kbps and 56.0 Kbps.
- Secondary Channel
  - SCA - Applies per T6ECS
  - Provides a companion, lower bit rate, digital channel.
  - Applies to 2.4 Kbps, 4.8 Kbps, 9.6 Kbps and 56.0 Kbps. (See paragraph 6 for additional information.)

#### 5.3.2 Nonrecurring Charges

- ORCMX - Applies per order request
- NRBCL - Applies per circuit on new installs and rearrangements.
- NRBBL - Applies per local distribution channel (T6ECS) on new installs and rearrangements.

### 6. Secondary Channel

Secondary Channel is an optional feature of OPTINET Base Rate Service that provides a companion digital channel over the same facility as the Primary Channel. (The 2.4, 4.8, 9.6 and 56.0 Kbps, T6ECS local distribution channels are considered primary channels.)

The Secondary Channel:

- is provided at a lower bit rate.
- operates independently of the Primary Channel
- is used to diagnose line problems and detour service around malfunctioning facilities.
- allows customers to transmit and run diagnostics simultaneously.
- must be co-terminated in common customer provided equipment.
- is typically used for network management applications and is offered on two-point and multipoint services where facilities are available.
- is not available on 19.2 Kbps Service.
- is ordered via "S" in the 8th position of the NCI code and an "H" as the 3rd character of the NC code.

The addition of the Secondary Channel option to an existing OPTINET Base Rate Service will be treated as a disconnect of the existing service and an installation of a new service that also includes the Secondary Channel.

7. Optional Payment Plan

7.1 General Information

The Optional Payment Plan (OPP) is a provision that allows a customer to pay a fixed rate for specific OPTINET Base Rate Services over a 12, 36 or 60 month payment period.

During the effective term, monthly rates for services installed under this arrangement will not be subject to telephone company initiated rate changes. The rate in effect at the time the OPP service is installed, will apply throughout the selected term.

Customers subscribing to an OPTINET Base Rate OPP will be subject to Nonrecurring Charges for installation and rearrangement of services.

Nonrecurring charges will not be spread over the OPP term.

If a customer subscribes to the OPP on an existing service with no other changes, nonrecurring charges will not apply.

A customer may elect to prepay (Single Payment Option) the remaining monthly charges at any time during an OPP term. The prepayment amount will be adjusted for the time value of money. Recurring charges will cease for the rest of the term, and start up again at the end of the OPP if service has not been disconnected.

No refund will be given for cancellation of the OPP once the Single Payment Option has been exercised.

Customers requesting termination of the service prior to the expiration of the OPP will be liable for payments of the following percentages of the Monthly Charges for the remainder of the term:

OPP TERM IN MONTHS	TERMINATION PERCENTAGE
12	85%
36	75%
60	60%

During a customer's OPP term, conversion may be made to a new OPP term of the same or different length, or to a higher speed service.

If the expiration date for the new service or OPP term is beyond the end of the original OPP term, the remaining OPP charges for the original term will not apply.

If no physical changes are made to the new service, the Administration Charge, the Design and Central Office Connection Charge and the Customer Connection Charge will not apply.

### 7.2 OPP Order Entries

An Optional Payment Plan is shown on the service order via the Special Pricing Plan (SPP) and Term Agreement (TA) FIDs.

Example: I 1 T6ECS  
 /SPP CT-OP1  
 /TA 36,(+SED)

### 8. Intervals

OPTINET Base Rate Services are provisioned using the same standard intervals as Direct Digital Services (DDS) for all speeds except 19.2. Intervals for 19.2 Kbps Service will be handled on a negotiated basis until a standard interval is developed.



INSTALL OPTINET 19.2 KBPS  
BASE RATE SERVICE WITH  
NO OPTIONAL FEATURES

---S&E  
1-> I1 ORCMX  
/PIU 100  
ICLS 42.XEGS.123456..WT  
/PIU 100  
/CKR DREC.987654..ATI  
2-> /NC XEA-  
3-> I1 XZD5X  
1-> I1 NRBCL  
ICKL 1-310 N DEWEY,EUCL  
/LSO 715 832  
4-> /NCI 04DU5.19  
/TAR EUCL  
I1 T6ECS  
IO 1L5XX  
1-> I1 NRBBL  
ICKL 2-2005 HIGHLAND AV,EUCL  
/TAR EUCL  
/LSO 715 832  
4-> /NCI 04DU5.19  
/SN BLUNT, ELLIS, LOEWI  
I1 T6ECS  
I1 S25EX  
1-> I1 NRBBL

1. Normal NRC charges apply.
2. XE++ NC code denotes OPTINET Base Rate Service.
3. Class of service denotes 19.2 Kbps Service.
4. NCI codes identifies 19.2 Kbps Service.

NOTE: OPTINET Base Rate 19.2 Kbps Service is currently offered as two-point service only.

The Secondary Channel option is not available on OPTINET Base Rate 19.2 Kbps Service.

At Wisconsin Bell, the customer is required to provide a Channel Service Unit (CSU) equipped with the Secondary Channel enabled. This CSU is used for testing purposes. (This item is not billable, but is provided by the customer on the customer's premise.)

INSTALL OPTINET 2.4 KBPS  
WITH SECONDARY CHANNEL AND OPP

---S&E  
1-> I1 ORCMX  
/PIU 100  
ICLS 44.XEGS.123456..WT  
/PIU 100  
/CKR DREC.987654..ATI  
2-> /NC XEH-  
3-> I1 XZD1X  
1-> I1 NRBCL  
ICKL 1-826 W MICH,MILW  
/LSO 414 271  
4-> /NCI 04DU5.24S  
/TAR MILW  
I1 T6ECS  
5-> /SPP CT-OP1  
/TA 36  
I3 1L5XX  
6-> I1 SCA  
/SPP CT-OP1  
/TA 36  
I1 CM6  
/SPP CT-OP1  
/TA 36  
1-> I1 NRBBL  
ICKL 2-2500 W WIS AV,MILW  
/TAR MILW  
/LSO 414 342  
4-> /NCI 04DU5.24S  
/SN FIRST WIS  
/LCON JOHN GREEN, 414 271-4567  
I1 T6ECS  
/SPP CT-OP1  
/TA 36  
I1 CM6  
/SPP CT-OP1  
/TA 36  
6-> I1 SCA  
7-> I1 S25EX  
1-> I1 NRBBL

1. Normal NRC charges apply.
2. XEH- Identifies OPTINET Base Rate Service with Secondary Channel (H).
3. XDH1X class of service displays 2.4 Kbps Service.
4. NCI code shows "S" in 9th position indicating Secondary Channel is requested.
5. Normal Optional Payment Plan FIDs apply.
6. USOC SCA identifies Secondary Channel. SCA applies per channel termination. OPP does not apply to SCA.
7. Because no billing applies to S25EX, no OPP FIDs are required.

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INSTALL OPTINET 4.8 KBPS  
WITH SECONDARY CHANNEL AND  
12 MO SINGLE PAYMENT OPTION

```

---S&E
1->  I1      ORCMX
      /PIU    100
      ICLS   44.XEGS.123456..WT
      /PIU    100
      /CKR   DREC.987654..ATI
2->  /NC     XEH-
3->  I1      XZD2X
1->  I1      NRBCL
      ICKL   1-826 W MICH,MILW
      /LSO   414 271
4->  /NCI   04DU5.48S
      /TAR   MILW
      I1     T6ECS
5->  /SPP   CT-OP1,OT
      /TA    12
6->  I1     SCA
      IO     1L5XX
1->  I1     NRBBL
      ICKL   2-777 E WIS,MILW
      /TAR   MILW
      /LSO   414 271
      /NCI   04DU5.48S
      /SN    FIRST WIS TRUST CO
      /LCON  BILL BANKER, 414 271-1122
      I1     T6ECS
      /SPP   CT-OP1,OT
      /TA    12 MO
      I1     SCA
      I1     S25EX
      I1     NRBBL

```

1. Normal NRCs apply.
2. XEH- NC code depicts OPTINET Base Rate Service with Secondary Channel (H).
3. Class of service XZD2X displays 4.8 Kbps Service.
4. NCI code shows "S" in the 9th position, indicating Secondary Channel is requested.
5. OPP entry SPP-OT indicates Single Payment Option.
6. OPP FIDs do not apply to Secondary Channel USOC. SCA applies per LDC.

INSTALL OPTINET 9.6 KBPS  
WITH CENTRAL OFFICE BRIDGING -  
MULTIPOINT CIRCUIT

```

---S&E
1->  I1      ORCMX          I1      T6ECS
      /PIU    100           IO      1L5XX
      ICLS   44.XEGS.123456..WT  I1      S25EX
      /PIU    100           I1      NRBBL
      /CKR   DREC.987654..ATI  ICKL    4-3456 W STATE,MILW
3->  I1      XZD3X          /LSO    414 342
1->  I1      NRBCL          /NC     XEAB
      ICKL   1-826 W MICH,MILW  /NCI    04DU5.96
      /LSO   414 271          /SGN    B
      /NC    XEAB            /LCON   MR SMITH
4->  /NCI    04DU5.96        /SN     YOUR CREDIT UNION
      /TAR   MILW           /TAR    MILW
      I1     T6ECS          /XR     2
      I3     1L5XX         I1      T63CS
      I1     CM6           IO      1L5XX
      I1     NRBBL        I1      S25EX
      ICKLT  2-MILWWI48    I1      NRBBL
      /SGN   1
      I1     CM6
5->  I3     B5NGF
      ICKL   3-2600 W WIS,MILW
      /LSO   414 342
      /NC    XEAB
      /NCI   04DU5.96
      /SGN   A
      /LCON  MR. BOND, 414 342-111
      /SN    M&I BANK
      /TAR   MILW
      /XR    2

```

1. Normal NRC charges apply.
2. Class of service identifies 9.6 Kbps Service.
3. NC XEAB identifies OPTINET Base Rate Service with Central Office Bridging - Multipoint Service.
4. NCI code denotes 9.6 OPTINET Base Rate Service.
5. Bridging USOC (B5NGF) applies per bridge port used.

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INSTALL OPTINET 56.0 KBPS  
WITH SECONDARY CHANNEL  
AND CENTRAL OFFICE BRIDGING -  
MULTIPOINT SERVICE

	---S&E			
1->	I1	ORCMX	ICKL	4-353 23RD AV, ASHLAND
	/PIU	100	/LSO	715 682
	ICLS	42.XEGS.123456..WT	/NC	XEHB
	/CKR	DREC.987654..ATI	/NCI	04DU5.56S
	/PIU	100	/SGN	B
2->	I1	XZD4X	/SN	JAMES RIVER CORP
	I1	NRBCL	/TAR	ASLD
	ICKL	1-E10 N DEWEY, EUCL	/XR	2
	/LSO	715 832	/LCON	MR BOND, 725 682-2222
3->	/NC	XEHB	I1	T6ECS
	/NCI	04DU5.56S	I26	1L5XX
	/TAR	EUCL	I1	SCA
	I1	T6ECS	I1	CM6
	IO	1L5XX	I1	S25EX
4->	I1	SCA	I1	NRBBL
	I1	NRBBL		
	ICKLT	2-EUCLWIO1		
	/XGN	1		
	I1	CM6		
5->	I3	B5NGF		
	ICLK	3-2005 HIGHLAND AV, EUCL		
	/LSO	715 832		
	/NC	XEHB		
	/NCI	04DU5.56S		
	/SGN	A		
	/SN	BLUNT ELLIS & LOEWI		
	/TAR	EUCL		
	/XR	2		
	/LCON	MR STOCK, 715 834-111		
	I1	T6ECS		
	IO	1L5XX		
	I1	SCA		
	I1	S25EX		
	I1	NRBBL		

1. Normal NRC charges apply.
2. Class of service depicts 56 Kbps Base Rate Service.
3. NC code displays OPTINET Base Rate Service with Secondary Channel (H) and Bridging (B).
4. Secondary Channel USOC applies per LDC.
5. Bridging USOC applies per port used.

REARRANGE EXISTING OPTINET  
2.4 KBPS TO ADD SECONDARY  
CHANNEL AND OPP

PART I DISCONNECT ORDER

```

---S&E
OCLS 44.XEGS.123456..WT
/NC XEA-
/CKR DREA.987654..ATI
/PIU 100
0 XZD1X
OCKL 1-826 W MICH,MILW
/LSO 414 271
/NCI 04DU5.24
/TAR MILW
01 T6ECS
03 1L5XX
01 CM6
OCKL 2-2500 W WIS,MILW
/LSO 414 342
/NCI 04DU5.24
/TAR MILW
/SN FIRST WIS
01 T6ECS
01 CM6
01 S25EX
    
```

PART II INSTALL ORDER

```

---S&E
I1 ORCMX
/PIU 100
ICLS 44.XEGS.123456..WT
/PIU 100
/CKR DREA.987654..ATI
/NC XEH-
I1 XZD1X
I1 NRBCL
ICKL 1-826 W MICH,MILW
/LSO 414 271
/NCI 04DU5.24S
/TAR MILW
I1 T6ECS
/SPP CT-OP1
/TA 60
I1 SCA
I3 1L5XX
/SPP CT-OP1
/TA 60
I1 CM6
/SPP CT-OP1
/TA 60
ICKL 2-2500 W WIS,MILW
/TAR MILW
/LSO 414 342
/NCI 04DU5.24.S
/SN FIRST WIS
/LCON MR BANKER, 414 344-3333
I1 T6ECS
/SPP CT-OP1
/TA 60
I1 SCA
I1 CM6
/SPP CT-OP1
/TA 60
I1 S25EX
    
```

NOTE:

- Two orders are required - OUT & IN
- Relate the orders
- Reuse CLS
- Changes on Install orders include:
  - NC
  - NCI
  - OPP FIDs

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INSTALL OPTINET 56.0 KBPS  
RIDING ON OPTINET DS-1 FACILITY

```

---S&E
1-> I1      ORCMX
    /PIU    100
2-> I       ASG 106
    ICLS    44.XEGS.123456..WT
    /PIU    100
    /CKR    DREC.987546..ATI
    /NC     XEA-
3-> I1      XZD4X
    I1      NRBCL
    ICKL    1-826 W MICH,MILW
    /LSO    414 271
4-> /NCI    04DS9.15
    /TAR    MILW
5-> /CFA    101 T1 15 MILWIIHEWOO MILWII48
    ICKLT   2-MILWII48
    ICKL    3-2040 W WIS,MILW
    /LSO    414 342
6-> /NCI    04DU5.56
    /SN     FIRST WIS BANK
    I1      T6ECS
    IO      1L5XX
    I1      S25EX
    I1      NRBBL
  
```

1. All normal NRCs apply.
2. Enter ASG of OPTINET DS-1 system.
3. Class of service denotes 56 Kbps OPTINET Base Rate Service.
4. NCI at CKL1 represents digital interface for DS-1 service.
5. CFA of DS-1, with channel assignment is shown at CKL1.
6. NCI of end user location denotes 56 Kbps OPTINET Base Rate Service.

INSTALL OPTINET 4.8 KBPS  
WITH SECONDARY CHANNEL  
TERMINATING IN INDEPENDENT  
COMPANY AREA

---S&E  
1-> I1 ORCMX/PIU 100  
ICLS 44.XEGS.123456..NOWS  
2-> /NC XEH-  
/PIU 100  
/CKR DWDC.98756..ATI  
3-> I MPB,S,SM  
I1 XZD2X  
I1 NRBCL  
/BIP 61  
ICKL 1-826 W MICH,MILW  
/LSO 414 271  
/NCI 04DU5.48S  
/TAR MILW  
/EC 0922  
I1 T6ECS  
I1 SCA.  
I1 CM6  
I26 1L5XX  
/BIP 61  
I1 NRBBL  
ICKL 2-1122 MAIN ST,DLFD  
/LSO 414 646  
/NCI 04DU5.48S  
/SN KOHLS FOODS  
/ICO NOWS  
/TAR WKSH  
/EC 0922  
4-> I1 T6ECS  
/BIP 00  
I1 SCA  
/BIP 00  
I1 CM6  
/BIP 00  
I1 S25EX  
/BIP 00

1. Normal NRC rules for Meet Point Billing apply. (NRBCL carries BIP %, NRBBL applies only at WBI location.)
2. NC code denotes OPTINET Base Rate Service with Secondary Channel (H).
3. All Meet Point Billing FIDs apply. (MPB, EC, BIP)
4. All USOCs at Independent Company location carry BIP 00.

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