

SUBJECT: 9001/9002 IWCC (InterWire Center) Channels

DATE: March 21, 1990

TO: CBC Personnel
MBC Personnel
COG Personnel
Distributor Support Personnel

Business
METHODS
Staff

COVER BY: April 4, 1990

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BACKGROUND

Previously, 9002 channels were the only signal type channels available for IWCC service in the BELL Channel Service tariff.

As a result of the BELL Channel Service conversion, it became evident that there were numerous IWCC 9001 type channels existing.

Consequently, a tariff change was filed in October, 1989 to allow IWCC 9001 channels.

TARIFF LANGUAGE CHANGE

The BELL Channel tariff description of 9001 and 9002 channels has changed. Following is the exact tariff language now shown in the tariff:

9001

A two-wire interface with two-wire facilities for direct current transmission (metallic continuity) with signaling speeds not to exceed 30 baud. Normally suitable for remote metering, supervisory control and miscellaneous signaling purposes. Furnished for two-point service.

9002

A two-wire interface with two-wire facilities for use in McCulloh Loop applications (low-speed unidirectional series-operated signaling not to exceed 30 baud). Furnished for two-point or multi-point service.

It is important to note the "McCulloh Loop" reference now shown in the 9002 channel description. Keep in mind that although WB no longer provides "McCulloh Loop" type service, the alarm industry continues to use this term for applications.

120 DAY WITHDRAWAL CLAUSE

The 9001/9002 tariff language was amended with the clause indicating that Wisconsin Bell has the right to discontinue the facilities supplying the customers' circuit if our facilities are being upgraded. The following is quoted from the tariff:

CONFIDENTIAL
Not for use or disclosure outside
Wisconsin Bell except under
written agreement.

"The Telephone Company assumes no obligation to continue providing metallic facilities where rearrangements or changing service requirements necessitate their elimination. The customer will be notified 120 days prior to the removal of metallic facilities."

CUSTOMER CONTACT

Because of our changing technology, it's very important to inform the customer of the restrictions that apply to a 9001/9002 Channel service. Because of these restrictions, we want to discourage the customer from ordering a 9001/9002 channel.

We need to encourage the customer not to use DC or DC-like signalling apparatus for CPE equipment.

The following information may be helpful in discussing this issue with the customer:

Wisconsin Bell has a history of upgrading the technology we use to provide service. For some time now, we have employed a technology that allows us to send several different customer signals over a single pair of wires at the same time. Had we not employed this technology, the cost of our service would be out of reach for many people. Also, in the last five years, we have been using fiber optic technology, which allows hundreds of our customers to communicate on a single glass fiber.

As with any new technology, older technology becomes obsolete. Circuits, like the one you are considering, that depend on the ability to conduct a direct current (DC) signal, have been replaced by those that send an alternating current (AC) signal.

Today, we have very few areas in the state where an end to end DC signal can be sent over the network. We are in the process of upgrading our network at a rapid rate and in the near future, end to end DC signaling will no longer be possible anywhere.

May we suggest you utilize a channel type that is not becoming obsolete in order to avoid the interruption of your service and the possibility of incurring a second installation charge.

SERVICE ORDER NEGOTIATION

If the customer insists on a 9001/9002 series channel, the following method should be applied:

WCC

- ◆ Explain to customer we need to check for facility availability
- ◆ Make a 1 BD CB
- ◆ Contact CPC Engineering, Jim Hull 678-3112
- ◆ Contact customer to negotiate order or to give information
- ◆ Offer alternative service if appropriate

IWCC

- ◆ Explain to customer we need a Leased Channel Design form
- ◆ Prepare BU for 15 BD
- ◆ Follow normal procedure for order issuance involving a Leased Channel Design form

HANDBOOK PAGES

Attached are corrected HB pages. Please reproduce enough for all service representatives.

Official pages are being processed and will be released by April 4, 1990.



Jennifer A. Tindal
Manager - Business Methods

Attachments

cc: J. Awe
D. Pederson
J. Hull
W. Dodd

BELL CHANNEL SERVICE
SIGNAL CHANNELS

1. DETERMINE

- Billing TN
- Addresses at both locations
 - cross streets
- Check SAG to determine WC/IWCC
- Contact names and TN's

2. OFFER channel types to customer

- CHANNEL TYPES - BELOW VOICE GRADE

1050

*** RESTRICTED TO WC ONLY ***

A half-duplex interface engineered for binary signal rates up to 75 baud, 20 or 62.5 milliamperes d.c. neutral signals. Normally suitable for teletypewriter, data supervisory control and miscellaneous signaling purposes.

1051

*** RESTRICTED TO WC ONLY ***

A full-duplex interface engineered for binary signal rates up to 75 baud, 20 or 62.5 milliamperes d.c. neutral signals. Normally suitable for teletypewriter, data supervisory control and miscellaneous signaling purposes.

9001

*** WC* OR @IWCC ***

A two-wire interface with two-wire facilities for direct current transmission (metallic continuity) with signaling speeds not to exceed 30 baud. Normally suitable for remote metering, supervisory control and miscellaneous signaling purposes. Furnished for two-point service.

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9002

*** WC* OR @IWCC ***

A two-wire interface with two-wire facilities for use in McCulloh Loop applications (low-speed unidirectional series-operated signaling not to exceed 30 baud). Furnished for two-point or multi-point service.

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3. @ IF IWCC 9001 OR 9002

- Inform customer Leased Channel Design form required before order can be issued
- See POST CONTACT

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4. NEGOTIATE DD (11 BD)

- If 10 or more 2 Point, Multi Point or Circuit Legs for same cust due same day.
 - A). Call Special Services Control Mgr:
 - Milw - 678-0920
 - Appltn - 1 735-3459
 - Madison - 1 608 252-2108
 - B). Call CPC X2462
 - Provide following info to both:
 - Due Date
 - Ord Number
 - Cust. name & tel #.

* If WCC

- Inform customer need to check for facility availability
- Make 1BD CB
- Call CPC Engineer (J. Hull) 678-3112

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BELL CHANNEL SERVICE
SIGNAL CHANNELS
CONT'D

5. QUOTE Charges
- RECURRING

WCC		TWO POINT			MULTI-POINT		
		WCC (quarters)			LDC (quarters)		
Chann. Type	CLSV	USOC	Init.	Subs.	USOC	Init.	Subs.
1050	RMT7L	1L9X6	60.00	4.00	1LDHJ	54.00	2.00
1051		1L9X7		8.00	1LDFJ	56.00	4.00
9001	RMT1L	1L9X6	10.00	3.50	TWO POINT ONLY		
9002	RMT2+	1L9X7	13.00	3.50	1LDDJ	12.00	2.00

IWCC		IWCC (miles)			LDC (quarter miles)		
Chann. Type	CLSV	USOC	Init.	Subs.	USOC	Init.	Subs.
9001	RMT1+	1LNDX	15.00	12.00	1LDDJ	15.00	3.50
9002	RMT2+	1LNDX	10.00	7.00	1LDDJ	12.00	2.00

****QUICK QUOTE CHARTS****

1050 CHANNELS

. WCC QUICK QUOTE Chart

Qtrrs.	Rate	Qtrrs.	Rate	Qtrrs.	Rate
1	60.00	6	80.00	11	100.00
2	64.00	7	84.00	12	104.00
3	68.00	8	88.00	13	108.00
4	72.00	9	92.00	14	112.00
5	76.00	10	96.00	15	116.00

. LDC QUICK QUOTE Chart

Qtrrs.	Rate	Qtrrs.	Rate
1	54.00	6	64.00
2	56.00	7	66.00
3	58.00	8	68.00
4	60.00	9	70.00
5	62.00	10	72.00

. MULTIPOINT

MPY1X	18.00
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1051 CHANNELS

. WCC QUICK QUOTE Chart

Qtrrs.	Rate	Qtrrs.	Rate	Qtrrs.	Rate
1	60.00	6	100.00	11	140.00
2	68.00	7	108.00	12	148.00
3	76.00	8	116.00	13	156.00
4	84.00	9	124.00	14	164.00
5	92.00	10	132.00	15	172.00

. LDC QUICK QUOTE Chart

Qtrrs.	Rate	Qtrrs.	Rate
1	56.00	6	76.00
2	60.00	7	80.00
3	64.00	8	84.00
4	68.00	9	88.00
5	72.00	10	92.00

. MULTIPOINT

MPY2X	18.00
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BELL CHANNEL SERVICE
SIGNAL CHANNELS
CONT'D

9001 CHANNELS

· IWCC QUICK QUOTE CHART

Miles	Rate	Miles	Rate
1	15.00	6	75.00
2	27.00	7	87.00
3	39.00	8	99.00
4	51.00	9	111.00
5	63.00	10	123.00

· LDC QUICK QUOTE Chart

Qtrs.	Rate	Qtrs.	Rate
1	15.00	6	32.50
2	18.50	7	36.00
3	22.00	8	39.50
4	25.50	9	43.00
5	29.00	10	46.50

· WCC QUICK QUOTE Chart

Qrtrs.	Rate	Qrtrs.	Rate	Qrtrs.	Rate
1	10.00	6	27.50	11	45.00
2	13.50	7	31.00	12	48.50
3	17.00	8	34.50	13	52.00
4	20.50	9	38.00	14	55.50
5	24.00	10	41.50	15	59.00

9002 CHANNELS

· IWCC QUICK QUOTE Chart

Miles	Rate	Miles	Rate	Miles	Rate	Miles	Rate	Miles	Rate
1	10.00	6	45.00	11	80.00	16	115.00	21	150.00
2	17.00	7	52.00	12	87.00	17	122.00	22	157.00
3	24.00	8	59.00	13	94.00	18	129.00	23	164.00
4	31.00	9	66.00	14	101.00	19	136.00	24	171.00
5	38.00	10	73.00	15	108.00	20	143.00	25	178.00

· LDC QUICK QUOTE Chart

Qtrs.	Rate	Qtrs.	Rate
1	12.00	6	22.00
2	14.00	7	24.00
3	16.00	8	26.00
4	18.00	9	28.00
5	20.00	10	30.00

NOTE: MPY++ USOC DOES NOT APPLY TO 9002 CHANNELS

(Continued)

BELL CHANNEL SERVICE
SIGNAL CHANNELS
CONT'D

9002 CHANNELS (CONTINUED)

WCC QUICK QUOTE Chart

Qtrtrs.	Rate	Qtrtrs.	Rate	Qtrtrs.	Rate	Qtrtrs.	Rate	Qtrtrs.	Rate
1	13.00	6	30.50	11	48.00	16	65.50	21	83.00
2	16.50	7	34.00	12	51.50	17	69.00	22	86.50
3	20.00	8	37.50	13	55.00	18	72.50	23	90.00
4	23.50	9	41.00	14	58.50	19	76.00	24	93.50
5	27.00	10	44.50	15	62.00	20	79.50	25	97.00

NOTE: MPY++ USOC DOES NOT APPLY TO 9002 CHANNELS

- NON RECURRING

TWO-POINT CHANNELS				
Chann. Type	CLCI	WCC DOC	IWCC DOC	Chann.
1050	BA, BL TC, TT	450.00	N/A	\$ 25.00
1051				
#9001	BA, BL BS, CS	425.00		
9002	BA, BS	450.00	510.00	

Two-point only

MULTI-POINT CHANNELS				
Chann. Type	DOC	Chann.	USOC	IC
1050*	450.00	25.00	MPY1X	25.00
1051*				
9002	510.00		N/A	N/A

* WC only

6. EXPLAIN cancellation charges may apply if order canceled

BELL CHANNEL SERVICE
SIGNAL CHANNELS
CONT'D

POST CONTACT

1. IF 9001/9002 IWCC CHANNEL <---

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|---|
| <ol style="list-style-type: none">1. PREPARE DCSC form and mail to customer2. PREPARE BU for 15 BD<ul style="list-style-type: none">- If not received, close out |
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UPON RECEIPT OF FORM

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| <ol style="list-style-type: none">1. FAX to CPC Engineer (J. Hull)<ul style="list-style-type: none">- FAX # 785-3629 OR 785-3630- Send <u>original</u> signed copy via BS18 (J. Hull, 3rd flr. 440 Exec. Dr.)2. PLACE BU in file (4 BD)3. CPC ENGINEER to contact SR w/ availability info |
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2. PREPARE order form

3. ASSIGN CLCI based on customer's description of service

- BA Protective Alarm (DC) - Provides a channel for an alarm system. The alarm points may be arranged in series or parallel configurations.
- BL Bell and Lights - A signal-grade circuit between a Civil Defense Control Center bell and light receiving station and warning system control equipment installed in a telephone company building.
- BS Siren Control - Provides a channel for the control of a siren or warning system.
- CS Channel Service - Provides a channel which has the capacity of transmitting up to 30 bauds. The channel does not have access to the switched message network.
- TC Control/Remote Metering - Telegraph Grade - A telegraph-grade circuit between a central point and a remote locations(s). It is used to selectively monitor or control quantities or operations at the remote locations.
- TT Teletypewriter Channel - A telegraph-grade circuit between two or more customer and/or Central Office locations.

4. OBTAIN critical dates

5. RECORD class of service

- RMT++ (see "QUOTE CHARGES" for fourth char suffix code) <---
- fifth char suffix = L - Intraexchange
S - Interexchange

6. OBTAIN mileage

- IWCC (if appro.)
- LDC (quarters)
- 608 252-2208

7. PASS to orderwriter