

WN U-5
YCOM Networks, Inc.
d/b/a FairPoint Communications

SECTION 12
Second Revision Sheet No. 1
Canceling First Revision Sheet No. 1

I. INTEGRATED SERVICES DIGITAL NETWORK - (C)
BASIC RATE INTERFACE (ISDN-BRI) (C)

A. GENERAL

1. Integrated Services Digital Network (ISDN) describes the end-to-end digital telecommunications network architecture which provides for the simultaneous access, transmission and switching of voice, data, and video services. These functions are provided via channelized transport facilities. The ISDN architecture consists of digital switching systems which connect Basic Rate Interface (BRI) lines to their serving central office.
2. ISDN-BRI is an optional service arrangement which can be used in conjunction with a customer's Individual Line Business or Residence service. It uses the ISDN architecture to provide the customer with the capabilities of simultaneous access, transmission, and switching of voice, data, and video services via channelized transport. In addition, ISDN-BRI provides the customer with access to Circuit Switched Voice Service, and Circuit Switched Data Service. (T)

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- I. INTEGRATED SERVICES DIGITAL NETWORK - BASIC RATE INTERFACE (ISDN-BRI) (cont'd) (C)
(C)
- A. GENERAL (cont'd) (C)
3. An ISDN-BRI arrangement obtains its capabilities from a properly equipped telephone company central office switch. The ISDN-BRI arrangement consists of two B-channels (2B+D). (T)
(T)
- a. B-Channel: the B-Channel is a bi-directional synchronous channel capable of supporting 64 kilobit per second (Kbps) of digital transmission of information between users. The B-Channels are configured to offer voice/data service. One Primary Directory Number with one Primary Directory Listing is provided. Additional listings may be provided as specified for Additional Listing Service in the Directory Listings section of the Company's tariff. (T)
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(T)
- b. D-Channel: the D-Channel is a 16 Kbps digital signaling channel that carries signaling and control for the B-channel. (T)
(T)
4. All ISDN-BRI lines consist of central office facilities, including the outside plant facilities, extended from the Company's switching equipment to the customer's demarcation point. (T)
5. ISDN-BRI is provided at the option of the Company, and is furnished subject to billing capability, central office switching capacity, and the availability of outside plant facilities. (T)
6. The Company shall not be responsible is changes in any of the equipment, operations, or procedures of the Company utilized in the provision of ISDN Service render any facilities provided by the customer obsolete or require modification or alteration of such customer's equipment or systems, or otherwise affect its use or performance. (M)
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(M)

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I. INTEGRATED SERVICES DIGITAL NETWORK - (C)
BASIC RATE INTERFACE (ISDN-BRI) (cont'd) (C)

B. SERVICE DESCRIPTION

(D)
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(D)

1. CIRCUIT SWITCHING –

Circuit Switching is a switching technique in which an entire circuit or, in a digital switch equipped for ISDN, a specific selection of time slots is dedicated to a given call. Circuit Switched Service provides the ability to originate and receive circuit switched voice, data and voice/data calls over two 64 Kbps B- channels. Usage charges for Circuit Switched Voice and Data calls are applicable on the B-channel and are outlined in the ISDN-BRI Rate Schedule. The customer may choose among the following Circuit Switched features based upon application needs. (T)

- a. *Electronic Key Telephone Service (EKTS) Features:* Electronic Key Features provide the customer with the ability to access the following features where available: (T)

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- I. INTEGRATED SERVICES DIGITAL NETWORK - BASIC RATE INTERFACE (ISDN-BRI) (cont'd) (C)
(C)
- B. SERVICE DESCRIPTION (cont'd) (C)
1. CIRCUIT SWITCHING (cont'd) (C)
- a. *Electronic Key Telephone Service (EKTS) Features* (cont'd) (C)
- 1) *Multiple Call Appearances of a Directory Number* - An arrangement that allows the user to have appearances of the directory number assigned to the customer-provided set, providing the capability of multiple incoming or outgoing calls associated with that directory number. Multiple incoming calls to this directory number or secondary telephone number (if purchased) can be terminated to the telephone if one or more idle calls appearances are available to accept the calls.
- 2) *Shared Call Appearances of a Directory Number*- An arrangement that allows a directory number(s) from one customer-provided set to appear as a call appearance(s) on other customer-provided sets of the user. Bridging, an arrangement that allows the user to connect onto a currently active call, is included.
- 3) *Analog Line Pickups*- An arrangement that allows an ISDN set to provide coverage for an analog number(s). This arrangement is limited to analog numbers that are terminated in the same central office switch. This feature may limit the use of other features and/or functionality on the analog line. Bridging, an arrangement that allows the analog user to connect onto a currently active call, is included.
- 4) *Privacy Release (Automatic Exclusion)* - An arrangement that allows a customer to specify that no other user can bridge onto an existing call(s). On a call by call basis, this feature can be disabled to allow bridging to occur.

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- I. INTEGRATED SERVICES DIGITAL NETWORK - BASIC RATE INTERFACE (ISDN-BRI) (cont'd) (C)
(C)
- B. SERVICE DESCRIPTION (cont'd) (C)
1. CIRCUIT SWITCHING (cont'd) (C)
- a. *Electronic Key Telephone Service (EKTS) Features* (cont'd) (C)
- 5) *Manual Exclusion (Privacy)* - An arrangement (opposite of Privacy Release) that allows the customer to restrict other stations from picking up an existing call on hold or bridging onto an existing call that is active at that station.
- 6) *Intercom Calling* - An arrangement that allows for ISDN station-to-station calls.
- 7) *Bridging* - An arrangement that allows the user to join an active call by pressing the active call appearance button. Bridging is inhibited if Manual Exclusion is activated on the terminal engaged in the active call.
- b. *Secondary Telephone Numbers* - An arrangement that allows a customer-provided set to have access to an additional telephone number. The additional telephone number, or Secondary Telephone Number, may originate or receive calls independent of the customer-provided set's Primary Directory Telephone Number. If more than one additional telephone number is assigned, additional charges will apply.
- c. *Clear Channel Capability* - A characteristic of the transmission paths on the B-channel that allows the full bandwidth on the "B" channel, 64 Kbps, to be available to the customer. However, ISDN interconnection to non-ISDN equipped central office will be potentially subjected to analog transmission or sub-rated to 56 Kbps. (T)
(T)
(T)

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- I. INTEGRATED SERVICES DIGITAL NETWORK - BASIC RATE INTERFACE (ISDN-BRI) (cont'd) (C)
(C)
- B. SERVICE DESCRIPTION (cont'd) (C)
1. CIRCUIT SWITCHING (cont'd) (C)
- d. *Custom Calling Services* - Available at rates and charges specified elsewhere in the Custom Calling Services section of this tariff. Custom Calling Service features found specifically in this ISDN tariff will be charged for at rates found on the ISDN Rate Schedule.
- 1) *Call Hold, Drop and Transfer* -
- a. Call Hold - Allows the user to place a call on hold by pressing a programmed button on a customer-provided set.
- b. Call Drop - This central office based feature allows the user to disconnect the last party added to a conference call.
- c. Call Transfer - This feature allows the user to transfer a call to another directory number. This feature may be used only with Circuit Switched voice.
- 2) *Advanced Custom Calling Services* - (T)
Advanced Custom Calling Services are available at rates and charges specified elsewhere in the Advanced Custom Calling Services section of this tariff. Charges for advanced calling service features found specifically in this ISDN tariff may be found on the ISDN-BRI Rate Schedule. (C)
(T)
- 3) *Caller Identification - Number* - (M)(T)
An Advanced Custom Calling Service feature that provides a display of the caller's telephone number on properly equipped customer-provided equipment (where available). |
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- 4) *Caller Identification - Name* - (T)
Advanced Custom Calling Service feature that provides a display of the caller's name on properly equipped customer-provided equipment (where available). |
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(M)

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- I. INTEGRATED SERVICES DIGITAL NETWORK - BASIC RATE INTERFACE (ISDN-BRI) (cont'd) (C)
(C)
- B. SERVICE DESCRIPTION (cont'd) (C)
(D)
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(D)
2. ALTERNATE CIRCUIT SWITCHED VOICE SERVICE/CIRCUIT SWITCHED DATA SERVICE - Alternate Circuit Switched Voice Service/Circuit Switched Data Service provides the ability to originate and receive either Circuit Switched Voice calls or Circuit Switched Data calls. The features applicable to Circuit Switching Service are also applicable to this service. (T)
- C. TRANSMISSION SPECIFICATIONS
1. *Standard Transmission parameters* for an ISDN Service Line utilizing an ISDN-BRI consists of: A maximum of 38.5db loop loss at a 40Kz test tone terminate into a 135 ohm impedance. The 38.5db loss includes all central office facilities, outside plant facilities and inside wiring. (C)
(T)

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- I. INTEGRATED SERVICES DIGITAL NETWORK - BASIC RATE INTERFACE (ISDN-BRI) (cont'd) (C)
(C)
- C. TRANSMISSION SPECIFICATIONS (cont'd) (C)
1. *Standard Transmission parameters (cont'd)* (C)
- a. *Logical Channels* - An arrangement that is virtual circuit, offering multiple logical connections at the packet level of X.25. ISDN packet data service offers the ability to send and/or receive packet data calls on separate logical channels within one ISDN "D" channel. The logical channels can be assigned as permanent virtual circuits, incoming only, outgoing only, or two-way (incoming and outgoing). (T)
- b. *Incoming Calls Barred* - An arrangement that prohibits a data terminal from terminating an incoming call. (T)
- c. *Outgoing Calls Barred* - An arrangement that prohibits a data terminal from originating an outgoing call. (T)
- d. *Closed User Groups* - An arrangement that allows ISDN users to establish sub networks of ISDN packet switching data users from which members can communicate with each other. The Closed User Group is established on a per line basis. The first member of a Closed User Group is included. Additional members are charged at the rate established in the rate following modes:
- 1) *Closed User Group with Outgoing Access* - The data terminal makes outgoing calls only. (T)
- 2) *Closed User Group with Incoming Access* - The data terminal receives incoming calls only. (T)
- 3) *Incoming Calls Barred within a Closed User Group* - The data terminal makes outgoing calls only to the data terminal in the Closed User Group with which it is associated. (M)(T)
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(M)

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I. INTEGRATED SERVICES DIGITAL NETWORK - (C)
BASIC RATE INTERFACE (ISDN-BRI) (cont'd) (C)

(D)
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(D)

D. CUSTOMER PREMISE EQUIPMENT AND FACILITES (T)

1. The customer is responsible for providing compatible premised equipment in order to utilize the ISDN offering. All customer-provided equipment used to interface with ISDN Service is required to conform with the Technical Reference Specification as used by the Company and is found in the following Technical References:

<u>Document Number</u>	<u>Description</u>
SR-NWT-002661 Generic Guidelines	National ISDN for ISDN Terminal Equipment on Basic Rate Interface
SR-NWT-001953	Generic Guidelines for ISDN Terminal Equipment on Basic Access Interfaces.

2. The Company shall not be responsible if changes in any of the equipment, operations, or procedures of the Company utilized in the provision of ISDN Service render any facilities provided by the customer obsolete or require modification or alteration of such equipment or system, or otherwise affect its use or performance. (M)
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(M)

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I. INTEGRATED SERVICES DIGITAL NETWORK (C)
 BASIC RATE INTERFACE (ISDN-BRI) (cont'd) (C)

E. ISDN-BRI RATE SCHEDULE (Business and Residential) (C)

	Monthly Rates	NRC	
<u>ISDN-BRI</u> (per line)			(T)
Residence	Residential Flat Rate	See Service Connection	
Business	Business Rate	See Service Connection	
Centrex	Centrex Rate	See Service Connection	
ALTERNATE CIRCUIT SWITCHED VOICE/CIRCUIT SWITCHED DATA- Two(2) B-Channels			(C)
Premium ISDN-BRI (Unlimited usage)	\$30.00	\$100.00*	(C)
CIRCUIT SWITCHED FEATURES: <u>Electronic Key Telephone Service (EKTS):</u>			(C)
1. Multiple Call Appearances of a Directory Number (DN) (up to 3)	Included	None	(T)
Fourth/Subsequent Call Appearances of a (DN)	\$3.00/Call Appearance	None	(T)
2. Shared Call Appearances	\$1.00/Shared Call Appearance	None	(T)
3. Analog Line Pickups	\$1.00/First Analog Set	None	(T)
4. Privacy Release (Automatic Exclusion)	Included	None	
5. Manual Exclusion (Privacy)	Included	None	
6. Intercom Calling	\$1.50/Each Member	None	(T)
Primary Directory Number	Included	None	
Secondary Telephone Numbers	\$1.00/Telephone Number	None	(T)
Clear Channel Capability	Included	None	
Call Hold, Drop and Transfer	Included	None	
Advanced Custom Calling Services	Advanced Custom Calling Service Tariff	See Service Connection	
Caller Identification - Number (where available)			
Caller Identification - Name (where available)			
* Waived with execution of one (1) year contract			(T)

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II. INTEGRATED SERVICES DIGITAL NETWORK (C)
PRIMARY RATE INTERFACE (ISDN-PRI) (C)

A. DESCRIPTION

The basic Primary Rate Interface (PRI) structure consists of 23 B-channels and a D-channel, for a total transmission rate of 1.544 Mbps, which is equivalent to a T1 facility. Each 64 Kbps B-channel carries user information such as voice calls, circuit-switched data, or video. The D-channel is a 64 Kbps channel that is used to carry the control or signaling information. (T)
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|
(T)

B. DEFINITIONS

1. Service Configurations

a. 23B+D (T)

This service configuration provides for 23 B-channels and 1 D-channel. The B-channels carry the circuit-switched voice and data, while the D-channel handles signaling information. The D-channel can control a maximum of 479 B-channels. The B-channels may be provisioned on the same facility as the D-channel or on other TI facilities.

b. 24B (T)

This service configuration provides for 24 B-channels. The B-channels carry the circuit-switched voice and data information. The signaling information is provided by a D-channel on the first T1 facility.

c. 23B+Back-up D (T)

This service configuration provides for 23 B-channels and a backup D-channel. The Back-up D-channel is used if the primary D-channel, which provides signaling for multiple TI facilities, fails. All active calls are maintained during the switch-over to the back-up D-channel.

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- II. INTEGRATED SERVICES DIGITAL NETWORK - (C)
PRIMARY RATE INTERFACE (ISDN-PRI) (cont'd) (C)
- B. DEFINITIONS (cont'd) (T)
2. Service Types
- a. Call-By-Call ISDN-PRI - (T)
Service allowing the customer to configure the ISDN-PRI B-channels to support inward (C)
and outward call flexibility, determined by the traffic flow. (T)
- b. Dedicated ISDN-PRI - (T)
Each B-channel is dedicated to inward, outward or 2-way traffic.
3. Usage
- An ISDN Trunk Connection (TC) is a central office translation that provisions each B- (T)
channel in an ISDN-PRI. The TC allows access to the exchange network. One ISDN Trunk (T)
Connection is required for each B-channel used in an ISDN-PRI.
4. Standard Features
- a. Calling Number Identification
- This feature displays the call identification information and the calling party's directory (T)
number (including non-published and non-listed directory numbers) prior to the call (T)
being answered. Callers have the ability to inhibit the display of calling party information (T)
to the terminating number.
- b. Calling Number Identification Blocking-All Calls
- All outgoing calls will be blocked for ISDN-PRI customers where technically feasible as (T)
determined by the Company.

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II. INTEGRATED SERVICES DIGITAL NETWORK - (C)
PRIMARY RATE INTERFACE (ISDN-PRI) (cont'd) (C)

B. DEFINITIONS (cont'd) (T)

4. Standard Features (cont'd) (C)

c. Circuit-Switched Data (T)

Circuit-Switched Data provides the capability of making data calls over the public switched network. Information is transmitted the same way as digitized voice. Like a voice call, a circuit-switched data call ties up network/system resources for the duration of the call. (T)

d. Direct Inward/Outward Dialing (T)

Allows station users to place or receive calls bypassing the attendant

C. TERMS AND CONDITIONS

1. ISDN-PRI is provided subject to the availability of central office facilities. (T)

2. Each ISDN-PRI consists of one TI facility and one Service Configuration. A customer may request more than one ISDN-PRI per premises. (T)
(T)

3. Terms and Conditions, and Rates and Charges, as described for ISDN-PRI, are in addition to the regular rates and charges for the service with which ISDN-PRI is associated. (T)
(T)

4. Some services are not available and/or compatible with ISDN-PRI. (T)

5. Loop Diversity and Avoidance defined in the Private Line Telephone Service and Channels, Schedule No. 24, Sheet 138, is available with ISDN-PRI. (T)

a. Customers subscribing to Loop Diversity must also subscribe to additional ISDN-PRI facilities and Trunk Connections for the secondary route. (T)

b. Customers subscribing to Avoidance must pay DS1 Transport Mileage rates between the local serving office and the alternate serving office. (T)

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- II. INTEGRATED SERVICES DIGITAL NETWORK - (C)
PRIMARY RATE INTERFACE (ISDN-PRI) (cont'd) (C)
- C. TERMS AND CONDITIONS (cont'd) (T)
6. The ISDN-PRI facility may be provided from a foreign central office or foreign exchange at the DSI Transport Mileage rates. Associated charges will be applied to the ISDN-PRI facility. (T)
(T)
7. ISDN-PRI offerings are not available for use by Commercial Mobile Radio Carriers, Private Mobile Radio Carriers and Interexchange Carriers in the provision of services to their customers. Other digital services are offered by the Company for interconnection specifically for these Carriers. (T)
8. ISDN-PRI customers must subscribe to a minimum of one 23B+D Service Configuration (T)
9. A DID Trunk Termination is required for each inward or 2-way B-channel in ISDN-PRI. (T)

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II. INTEGRATED SERVICES DIGITAL NETWORK - (C)
 PRIMARY RATE INTERFACE (ISDN-PRI) (cont'd) (C)

D. RATES AND CHARGES

ISDN-PRI will be provided at the rates and charges listed below: (T)

1. Transport

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
• Stand alone T1 facility, per 24 channel facility [1]	[2]	[2]

2. Service Configuration

• 23B+D	[2]	[2]
• 24B	[2]	[2]
• 23B + Back-up D	[2]	[2]

3. ISDN Trunk Connection,
per B-Channel

• Call-By-Call	[2]	[2]
• Dedicated		
• In-ward	[2]	[2]
• Outward	[2]	[2]
• 2-Way	[2]	[2]

[1] One Service Configuration is required for each T1 facility.

[2] Rates and Charges apply for the appropriate Trunks are developed on an Individual Case Basis.

	<u>Nonrecurring Charges</u>	(M)
4. Nonrecurring change charges apply as follows:		
• All miscellaneous changes or rearrangement facilities, per facility	\$50.00	
		(M)

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II. INTEGRATED SERVICES DIGITAL NETWORK - (C)
PRIMARY RATE INTERFACE (ISDN-PRI) (cont'd) (C)

D ISDN-PRI BUNDLE (N)

1. All regulations applicable to ISDN Primary Rate Service as specified in SECTION 12 of this Tariff apply to the ISDN-PRI Bundle except as specified in this section below:
 - a. Includes unlimited local calling, the ISDN primary port, local distribution channel (LDC), Caller ID with Name and 1 DID block of 100 numbers (or fraction thereof). This bundle is provided under month-to-month, 1, 2 or 3 year terms. Term bundles have a one year minimum requirement. The bundle rates do not include the EUCL, surcharges or taxes.
 - b. ISDN-PRI Bundle is not available with Foreign Exchange service, virtual private network services and is not available with services provided under special contract.
 - c. Additional 100 blocks of DID numbers (or fraction thereof) and single DID telephone numbers, which may or may not be contiguous based on availability, are available for an additional monthly recurring charge for customers who have purchased the ISDN-PRI Bundle for 1, 2 or 3 year terms. The term of the additional DID numbers is coterminous with the term of the ISDN-PRI Bundle.
 - d. Conversion - Any existing ISDN-PRI customer may convert to ISDN-PRI Bundle. However, this will be considered a downgrade and termination charges will apply to the existing service agreement.
 - e. Termination for the ISDN-PRI Bundle is as follows:
 - Number of months remaining (rounded down) x \$20 (1 year term)
 - Number of months remaining (rounded down) x \$40 (2 year term)
 - Number of months remaining (rounded down) x \$60 (3 year term)Additionally: If customer doesn't fulfill one year minimum requirement, the NRC will be re-rated to the MTM NRC totaling \$900. (N)

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II. INTEGRATED SERVICES DIGITAL NETWORK - (N)
PRIMARY RATE INTERFACE (ISDN-PRI) (cont'd)

D. ISDN-PRI BUNDLE (cont'd)

2. ISDN-PRI Bundle Monthly Rates and Charges-Residential and Business

- a. Primary Rate Interface, with 1 D-channel \$ 600.00/ month
\$ 400.00/ 1year
Includes: \$ 375.00/ 2years
ISDN- PRI Port, Caller ID with Name, \$ 360.00/ 3years
DID block, 100-numbers (or fraction thereof),
and unlimited local calling
- b. FCC End User Common Line Charges, as set
forth in the NECA's Access Services Tariff,
apply as appropriate and shall be interpreted to
apply per PRI
- c. Custom configurations will be priced on a case-
by-case basis.

3. ISDN-PRI BUNDLE Non-Recurring Rates - Residence and Business

- a. Service Establishment Charge
for Bundle Term:
- Month-to-Month Plan \$ 900.00
 - (1, 2 or 3 years) Plans \$ 200.00