

NHPUC No. 7 - TELEPHONE SERVICE  
UNION TELEPHONE COMPANY  
TARIFF CHECK SHEET

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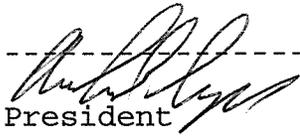
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## DIGITAL TELECOMMUNICATIONS SYSTEMS

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I. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)  
PRIMARY RATE INTERFACE (PRI)A. GENERAL DESCRIPTION

1. Integrated Services Digital Network (ISDN) is a public network-based set of communications service that make it possible to send, receive, and modify information using regular telephone facilities. ISDN provides end-to-end digital communications and gives the ability to transmit data and voice over the same telephone line simultaneously. This functionality is provided via channelized transport facilities. The ISDN architecture provides for Primary Rate Interface (PRI) which is typically used when a customer wants to connect large quantities of digital lines to the network.
2. ISDN-PRI uses the ISDN architecture to provide the customer with the capability to transmit voice and data simultaneously over the same digital facility. Under various optional arrangements, PRI provides the customer with access to Circuit-Switched Voice Services and Circuit-Switched Data Services.

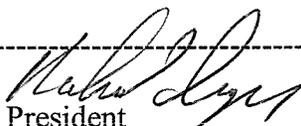
B. PRIMARY RATE INTERFACE (PRI) SERVICE ARRANGEMENT

1. An ISDN-PRI arrangement connects an ISDN-capable Telephone Company central office switch to ISDN-capable customer premise equipment (CPE). Depending on the application, CPE might be a PBX, a router, a multiplexer, etc. The ISDN-PRI arrangement provides a total of twenty-four digital communications channels within a single physical facility. Twenty-three of these channels are called Bearer, or B Channels and they carry the actual voice or data. Another channel, called the Delta or D Channel, is used to transport signaling for the other 23 channels. This configuration is known as 23B+D.
  - a. B Channel – The B Channel is a bi-directional synchronous channel capable of supporting digital transmission speeds of 64 kilobits per second (kbps). Each B Channel of a PRI may carry:
    - (1) Circuit-Switched Voice
    - (2) Circuit-Switched Data
  - b. D Channel – The D Channel is a 64 kbps digital signaling channel that carries signaling and control for the B Channels.
2. Primary Rate Access Facility – The Primary Rate Access Facility provides a high capacity digital link over which the Primary Rate services are delivered. This facility is based on a 1.544 mbps DS1 carrier (T1 facility).

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DIGITAL TELECOMMUNICATIONS SYSTEMS

I. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

PRIMARY RATE INTERFACE (PRI)

B. PRIMARY RATE INTERFACE (PRI) SERVICE ARRANGEMENT (Continued)

- 3. Multiple PRI Arrangement – There may be situations where more than 23 B Channels are needed at a particular customer premise. In those situations, multiple PRI facilities can be assigned to a PRI arrangement. With the multiple PRI arrangement, the D Channel is the first PRI facility that is used to transport signaling for additional PRI facilities. The first PRI would be configured at 23B+D and the other PRIs would be configured as 24B. This use of Non-Facility Associated Signaling (NFAS) allows the overhead of the D Channel to be distributed over multiple PRI facilities, thereby increasing channel efficiency.
- 4. D Channel Backup – In Multiple PRI Arrangements, a second D Channel can be assigned (where available) as an automatic backup to the primary D Channel. This can be offered when more than one PRI is provided to the same customer in order to provide redundancy of the signaling channel.

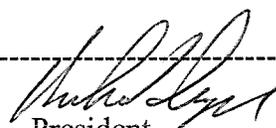
C. CIRCUIT SWITCHED SERVICE DESCRIPTIONS

Circuit Switching is a switching arrangement in which an entire circuit or B Channel is dedicated to a given call. The circuit is connected on a per call basis and can carry Circuit-Switched Voice or Circuit-Switched Data. Circuit switched related service include:

- 1. 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 offices will be potentially subjected to analog transmission or sub-rated to 56 kbps.
- 2. Dedicated Trunk Groups – The B Channels of a PRI can be dedicated for calls to and from the public network: Incoming, Outgoing, 2-way, Direct Outward Dialing (DOD) or Direct Inward Dialing (DID).
- 3. Multiple Directory Numbers – Each PRI includes an individual directory number. Additional directory numbers, a range of directory numbers, or several ranges of directory numbers can be optionally added.

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PRIMARY RATE INTERFACE (PRI)

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C. CIRCUIT SWITCHED SERVICE DESCRIPTIONS (Continued)

4. Advanced Calling Services – ISDN-PRI can support access to the following Advanced Calling Services (also called CLASS services) from suitably equipped CPE:

- a. Caller ID – Number – This feature allows the central office and the customer’s equipment to communicate the calling party’s directory number on calls carried by the ISDN-PRI. The number can then be made available to be displayed on a properly equipped telephone set or adjunct equipment.
- b. Caller ID – Name – This feature (where available) allows the central office and the customer’s suitable equipped CPE to communicate calling party name information (associated with the calling party’s directory number) on calls carried by the ISDN-PRI. The name can then be made available to be displayed on the properly equipped telephone set or adjunct equipment.

D. TECHNICAL SPECIFICATIONS

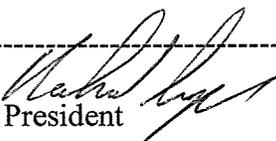
1. Transmission Specifications – The Primary Rate Access Facility provides a high capacity digital link over which the Primary Rate services are delivered. This facility is based on a 1.544 Mbps DS1 carrier (T1 facility) whose characteristics are as follows:

- Line Code = Bipolar 8 Zero Substitution (B8ZS)
- Framing Format = Extended Super Frame (ESF)
- Signaling = Q.931 signaling
- Data Rate = 64 kbps clear or kbps restricted
- D Channel = 24<sup>th</sup> channel on the T1 facility

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 PRIMARY RATE INTERFACE (PRI)

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D. TECHNICAL SPECIFICATIONS (Continued)

2. Customer Premise Equipment (CPE) and Facilities – Compatible CPE is required to utilize ISDN-PRI. All equipment used to interface with these services are required to conform with ISDN guidelines as referenced in the following Bellcore/Telecordia specifications:

<u>Document Number</u>	<u>Description</u>
TR-NWT-001268	ISDN Primary Rate Interface Call Control Switching and Signaling Generic Requirements for Class II Equipment
SR-NWT-002343	ISDN Primary Rate Interface Generic Guidelines for Customer Premises Equipment

The Telephone Company shall not be responsible if changes in any of the equipment, operations, or procedures of the Company utilized in the provisioning of ISDN services render any facilities provided by the customer obsolete or require modification of such equipment or system, or otherwise affect its use or performance. The Company will notify customers of changes in any of the equipment, operations, or procedures of the Company utilized in the provision of ISDN Service that: 1.) render any facilities provided by the customer obsolete, 2.) require modification or alteration of such customer's equipment or systems, and/or 3.) otherwise affect its use or performance.

E. REGULATIONS AND CONDITIONS

1. Unless specifically exempted, ISDN services shall be subject to all general regulations applicable to the provision of service by the Telephone Company as stated in the general tariff.

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I. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)  
PRIMARY RATE INTERFACE (PRI)

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E. REGULATIONS AND CONDITIONS (Continued)

2. ISDN-PRI is provided at the option of the Company. These services are furnished subject to central office switching capacity, capability, and the availability of outside plant facilities.

a. The availability, functionality, and capabilities of ISDN-PRI may vary, or may not be available, dependent upon type of service central office switch, related software controlling that switch and associated outside plant.

(1) Where facilities are not available, or unusual expenditures are involved in making them available, the customer may be required to pay additional charges to cover the unusual expenditure, or to contract for services beyond the normal service term, or both.

3. Payment for Service:

a. The minimum charge period for service provided under this tariff is one month.

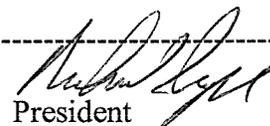
b. Suspension of service is not allowed.

4. Directory Listings: One directory listing is provided without charge for each ISDN-PRI customer. Additional listings may be provided as specified in the Telephone Company general tariff.

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I. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)  
PRIMARY RATE INTERFACE (PRI)

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E. REGULATIONS AND CONDITIONS (Continued)

5. Billable Call Treatment: Normal toll charges shall apply to calls that are made outside of the Local Service Area.
6. Customer Premise Equipment (CPE):
  - a. This tariff does not include terminal equipment on the customer's premises. Terminal equipment may be covered under a separate tariff, sold or leased separately by the Telephone Company (under a separate contract), or may be provided by the customer.
  - b. The customer is responsible for providing the power required for any and all CPE connected to an ISDN-PRI.

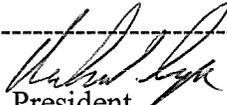
7. End User Common Line (EUCL) Charges

ISDN-PRI is subject to a tariff filed with the Federal Communications Commission (FCC) for End User Common Line (EUCL) and other charges under the rates and application rules specified by the tariff. The customer shall be liable for all adjustments to the EUCL and other charges as mandated by the tariff (or by any regulatory body or commission or court of competent jurisdiction).

8. The Telephone Company shall not be liable for any loss or damages arising out of error, interruptions, defects, failure, or malfunctions of ISDN services or associated equipment. Damages arising out of such interruptions, defects, failures, or malfunctions of the services after the Telephone Company has been notified, and has reasonable time for repair, shall in no event exceed an amount equivalent to the charges made for the service affected for the period following notice from the customer until service is restored.

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PRIMARY RATE INTERFACE (PRI)

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F. RATES AND CHARGES

1. Integrated Services Digital Network (ISDN) PRI Access

The rates and charges below are for providing an ISDN-PRI access facility from the serving central office to the customer’s premises. These charges provide the underlying communications facility to support the PRI service arrangement. Rates and charges for the “B” and “D” communications channels are additional as shown in the next section.

	Service Establishment	Monthly Rate
PRI Access – per facility	\$450.00	N/A

2. Communications Channels

a. Circuit-Switched Communications Channels

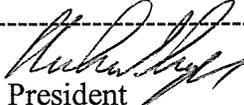
This flat rate applies only to circuit-switched calls, not to packet calls.

	Service Establishment	Monthly Rate
23 B Channels plus D Channel	\$890.00	\$660.00
Additional 24 B Channels (Multiple PRI Facility Arrangement)	\$890.00	\$660.00
b. D. Channel Backup (Maximum One Per PRI Service Arrangement)	\$100.00	\$ 50.00

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I. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)  
 PRIMARY RATE INTERFACE (PRI)

F. RATES AND CHARGES (Continued)

2. Communications Channels (Continued)

c. Directory Numbers

	Service Establishment	Monthly Rate
Primary Directory Number (One With Each PRI Facility)	No Charge	No Charge
Additional DID Directory Numbers (Per 10 Number Group)	\$25.00	\$ 3.50

3. Circuit-Switched Features

a. Clear Channel Capability and Call-by-Call Capability for public network calls (incoming, outgoing or 2-way trunk calls) are provided at no additional charge at time of installation.

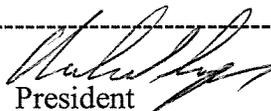
b. Advanced Calling Services:

	Service Establishment	Monthly Rate
Caller ID - Number	No Charge	No Charge
Caller ID – Name (per B channel in ISDN-PRI)	No Charge	\$1.45

All Custom Calling Features, when feasible with PRI, are provided at the tariffed rate times the number of B Channels in the ISDN-PRI facility. All other technically feasible features will be provided on an individual case basis.

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F. RATES AND CHARGES (Continued)

3. Circuit-Switched Features (Continued)

c. Subsequent Feature Additions and Charges

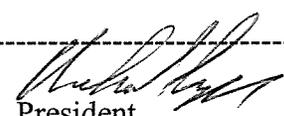
When the above features are ordered or modified after the initial installation of an ISDN-PRI, the nonrecurring feature addition and change charge is as follows:

Feature Additions and Changes                      \$50.00

Only one service charge will appear when multiple features are added or changed on an ISDN-PRI facility as part of the same service order.

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