

Schedule No. A-29

INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE

APPLICABILITY

APPROVED

Integrated Services Digital Network (ISDN) describes the end-to-end digital telecommunications network architecture that provides for the simultaneous access, transmission and switching of voice, data, and image services available with business or residence individual access line services. These functions are provided via channelized transport facilities. The ISDN architecture consists of digital switching systems that connect Basic Rate Interface (BRI) lines to their serving central office.

TERRITORY

Within the exchange areas, as said areas are defined on a map filed as part of the tariff schedules.

RATES**

	Monthly Rate*
(1) Circuit Switched Voice (CSV) Service, per "B" channel	\$15.00
(2) Circuit Switched Data (CSD) Service, per "B" channel	15.00
(3) Alternated Circuit Switched Voice/Data Service, per "B" channel	15.00
(4) Circuit Switched Features:	
a. Electronic Key Telephone Service:	
1. Multiple call appearances of a directory number (up to 3)	Included with RATES (1) – (3)
2. Fourth and subsequent call appearances of a directory number, per call appearance	2.00
3. Shared call appearances, per shared call appearance	1.00
4. Analog Line Pickups, per first analog set	1.00

* In addition to 1/5 times the individual access line monthly rates in Schedule No. A-1 and applicable Multi-Element Service Charges set forth in Schedule No. A-17.

** See Schedule No. A-35 for discounts for qualifying entities.

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(To be inserted by utility)
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Paul E. Pederson
NAME
Vice President
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Schedule No. A-29

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INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE
 (Continued)

RATES - (Continued)

	<u>Monthly Rate *</u>
(4) Circuit Switched Features: - (Continued)	
a. Electronic Key Telephone Service: - (Continued)	
5. Privacy Release (Automatic Exclusion).....	Included with RATES (1)-(3)
6. Manual Exclusion (Privacy).....	Included with RATES (1)-(3)
7. Intercom Calling, each member.....	\$ 1.50
8. Bridging.....	Included with RATES (1)-(3)
b. Primary Directory Listing.....	Included with RATES (1)-(3)
c. Secondary Telephone Number(s), per telephone number.....	2.00
d. Clear Channel Capability.....	Included with RATES (2)&(3)
e. Call Drop, Call Hold, and Call Transfer.....	Included with RATES (1)&(3)
f. Caller ID - Basic (Number Only).....	Included with RATES (1)-(3)
(5) Intraswitch Packet Switched Data Service, per "D" channel.....	10.00

* In addition to 1.5 times the individual access line monthly rates in Schedule No. A-1 and applicable Multi-Element Service Charges set forth in Schedule No. A-17.

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INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE
 (Continued)

RATES - (Continued)

	<u>Non-recurring Charges</u>	<u>Monthly Rate*</u>
(6) Intraswitch Packet Switched Data Features: provided with RATES (6)		
a. Flow Control Parameter Negotiation.....		-
b. Throughput Class Negotiation.....		-
c. Logical Channels.....		-
d. Incoming Calls Barred.....		-
e. Outgoing Calls Barred.....		-
f. Closed User Groups (CUG):		
1. Per CUG (first member included).....	\$ 25.00	-
2. Per Member in CUG.....	1.00	-
g. Fast Select.....		-
h. Fast Select Acceptance.....		-
(7) Message Detail Billing, per "B" channel, which is provided by directory number.....		\$ 2.00

* In addition to 1.5 times the individual access line monthly rates in Schedule No. A-1 and applicable Multi-Element Service Charges set forth in Schedule No. A-17.

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INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE
(Continued)

RATES - (Continued)

(9) Education Cornerstone Program:

a. Waiver of Charges:

1. The waiver of RATES (1) through (8) in this Schedule for one ISDN line is offered to each public school or library for one year.
2. The waiver period shall begin on the date of the installation and continue for twelve months at which time the customer may elect to disconnect without penalties or continue the service at the prevailing tariff rates and charges. The customer will be informed at the time of the installation what the tariff rates and charges would be.

b. Special Conditions:

1. Additional ISDN lines and features ordered by each public school or library will be billed from RATES (1) through (8) in this Schedule.
2. The public school(s) and library(ies) must be technically equipped of being served by ISDN Service and the Utility must have the central office switching capacity and available outside plant facilities to serve that location.
3. The waiver of charges shall begin on the date of installation of the one free ISDN line and conclude twelve months from that date.

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INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE
(Continued)

SPECIAL CONDITIONS

1. Basic Rate Interface (BRI) is an optional service arrangement that can be used in conjunction with a customer's individual access 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 image services via channelized transport. In addition, BRI provides the customer with access to Circuit Switched Voice Service, Circuit Switched Data Service, and Packet Switched Data Service.

A BRI arrangement obtains its capabilities from the Utility's central office switch. The BRI arrangement may consist of up to two "B" channels and one "D" channel (2B+D). These channels are defined as:

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" Channel may be configured to offer voice service, data service, and/or voice/data service. One primary directory number with one primary directory listing for the first "B" Channel ISDN Service line is provided. Additional listings may be provided as specified for Additional Listing Service in Schedule No. A-7, Directory Listings.

b. "D" Channel: The "D" Channel is a 16 kbps digital signaling channel that carries signaling and control for the "B" channel and has maximum packet transmission throughput of 9.6 kbps.

2. All ISDN Service lines consist of central office facilities, including the outside plant facilities, extended from the Utility's switching equipment to the customer's demarcation point.

3. ISDN Service is provided at the option of the Utility, and is furnished subject to central office switching capacity and the availability of outside plant facilities. The availability, functionality, and capabilities of the ISDN Service features may vary, or may not be available dependent upon type of serving central office switch, related software controlling that switch and associated outside plant.

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INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE
(Continued)

SPECIAL CONDITIONS - (Continued)

4. The Utility shall not be responsible if changes in any of the equipment, operations, or procedures of the Utility 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.

5. Description of Circuit Switching Service and Features:

a. 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/or voice/data calls over a 64 kbps "B" channel. The customer may choose among the following circuit switched features based upon application needs which are described below.

(1) Electronic Key Telephone Service (EKTS) Features: Electronic Key Features provide the customer with the ability to access the following features where available:

(a) 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. In certain central offices, this arrangement may impact the use of the shared call appearance feature.

(b) 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 appearances(s) on the customer-provided sets of other users. Bridging, an arrangement that allows the user to connect onto a currently active call, is included.

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INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE
 (Continued)

SPECIAL CONDITIONS - (Continued)

5. Description of Circuit Switching Service and Features: - (Continued)

a. (1) - Continued)

(c) 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.

(d) 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.

(e) 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.

(f) Intercom Calling - An arrangement that allows for ISDN station-to-station calls.

(g) 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.

(2) Secondary Telephone Numbers - An arrangement that allows a customer-provided set to have access to an additional telephone number(s). The additional telephone number(s), or secondary telephone number(s), may originate or receive calls independent of the customer-provided set's primary directory telephone number.

(3) 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.

(4) Custom Calling Services - Call Hold, Call Drop, and Call Transfer are included with Circuit Switched Voice. All other Custom Calling features are set forth in Schedule No. A-16.

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INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE
(Continued)

SPECIAL CONDITIONS - (Continued)

5. Description of Circuit Switching Service and Features: - (Continued)

a. (4) Custom Calling Services - (Continued)

(a) Call Hold, Drop, and Transfer -

1. Call Hold - Allows the user to place a call on hold by pressing a programmed button on a customer-provided set.
2. Call Drop - This central office based feature allows the user to disconnect the last party added to a conference call.
3. Call Transfer - This feature allows the user to transfer a call to another directory number. This feature is for use with Circuit Switched Voice Service only.

(5) Advanced Calling Services - Available at rates and charges specified in Schedule No. A-19. Caller ID - Basic (Number Only) is included with Circuit Switched Voice Service and/or Circuit Switched Data Service.

(a) Caller ID - Basic (Number Only) - An Advanced Calling Service feature that provides the caller's telephone number to be displayed on properly equipped customer-provided equipment (where available).

6. 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 over a single "B" channel but not simultaneously. This arrangement is available where technology permits.

The features applicable to Circuit Switching Service are also applicable to this service.

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INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE
(Continued)

SPECIAL CONDITIONS - (Continued)

7. Description of Intraswitch Packet Switched Data "D" Channel Service and Features

a. Packet Switching is a technique in which packets of data are individually addressed and combined on a transmission path with other addressed packets. Packet Switched Data "D" Channel Service provides the ability to originate and receive X.25 packet data calls on an intraswitch basis. This arrangement provides a maximum throughput of 9.6 kbps. Each "D" channel packet terminal will provide logical channel up to the technical capabilities of the serving central office. Multiple packet calls can be active simultaneously by a user on a single "D" channel. Up to eight data terminals can be supported per Basic Rate Interface (BRI). Service includes one data telephone number. The features are described as follows:

- (1) Flow Control Parameter Negotiation - An arrangement that permits negotiation on per call basis of the flow control parameters. This feature automatically negotiates the maximum packet size and window size for each direction of data transmission. This can be presubscribed (fixed) or it can be established on a per call basis.
- (2) Throughput Class Negotiation - An arrangement that allows the calling data terminal to request specific throughput classes (bits/second) in the call request packet for both directions of data transmission.
- (3) Logical Channels - An arrangement that is a 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).
- (4) Incoming Calls Barred - An arrangement that prohibits a data terminal from terminating an incoming call.
- (5) Outgoing Calls Barred - An arrangement that prohibits a data terminal from originating outgoing calls.

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INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE (Continued)

SPECIAL CONDITIONS - (Continued)

7. Description of Packet Switched Data "D" Channel Service and Features - (Continued)

a. (Continued)

- (6) Closed User Groups - An arrangement that allows ISDN users to establish subnetworks 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 schedule. Each data terminal in a Closed User Group can be arranged in one of the following modes: (a) Closed User Group with Outgoing Access - The data terminal makes outgoing calls only. (b) Closed User Group with Incoming Access - The data terminal receives incoming calls only. (c) 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. (d) Outgoing Calls Barred Within a Closed User Group - The data terminal receives incoming calls only to the data terminals in the Closed User Group with which it is associated. (e) Unrestricted Access - The data terminal receives and makes both incoming and outgoing calls. (7) Fast Select - An arrangement that allows a sending data terminal to forward up to 128 bytes of data along with the call setup and clearing packets. (8) Fast Select Acceptance - An arrangement that allows the switch to transmit incoming call packets with the fast select facility to a destination terminal that has this feature.

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INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE
(Continued)

SPECIAL CONDITIONS - (Continued)

8. Transmission Specifications

The standard transmission parameters for an ISDN Service line utilizing an ISDN Basic Rate Interface (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 wire.

9. Customer Premises Equipment and Facilities

The customer is responsible for providing compatible premises 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 Utility and is found in the following Technical References:

<u>Subject</u>	<u>Technical Reference</u>	<u>Voice Contact Available</u>
Basic Rate Interface	AT&T 235-900-341	1-800-432-6600
Customer Premises Planning Guide	AT&T 533-700-100	1-800-432-6600

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

10. An average amount of entrance and distribution facilities may be furnished by the Utility provided the facilities are of the standard type normally furnished for the particular location or kind of service. If additional entrance or distribution facilities are required; if the conditions are such as to require special equipment; if the installation is for temporary or semi-permanent purpose or if for any other reason the construction costs are excessive, the applicant shall be required to pay the costs over and above those applicable for a normal installation. Each special construction situation will be evaluated on an individual case basis.

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Schedule No. A-29

INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE
(Continued)

SPECIAL CONDITIONS - (Continued)

11. For discounts on qualifying schools and libraries, please see Schedule No. A-35 of this tariff.

12. It is the customer's responsibility to provide, and update if necessary, accurate Automatic Number Identification (ANI) and Automatic Location Identification (ALI) sub-address information to the 911 database administrator. Once the customer provides ANI and ALI sub-address information to the 911 database administrator, it is the responsibility of the Company to provide the location of the pilot number to the PSAP for 911 calls, and where technically and operationally feasible the Company will deliver ANI to the PSAP at a station level behind a Multi-line Telephone System.

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