

LOCAL EXCHANGE SERVICE Missouri Public
INTEGRATED SERVICES DIGITAL NETWORK Commission

A. OVERVIEW

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Today's communications network involves many special networks, physical transmission facilities, and controllers of various types, including computer. ISDN provides integrated access to circuit-switched networks in which all the various needs of the independent networks can be accommodated by a single transport network that handles both voice and data traffic. This single transport network is designed to provide a single communication interface for the customer so that terminal equipment can be plugged into an outlet as easily as a plain old telephone service (POTS) telephone is plugged in.

ISDN is an integrated digital network providing end-to-end connectivity, and supporting a wide range of services. These services include voice and non-voice (i.e., data), accessed by users through a set of standard multipurpose user-network interfaces.

Typically two interfaces define the connectivity between switching equipment and customer equipment:

- Basic Rate Interface (BRI)
- Primary Rate Interface (PRI)

Both interfaces allow voice and data services simultaneously, and are designed to support both circuit-switched connections.

B. DEFINITIONS

B (Bearer) Channel

An ISDN B-Channel is a bi-directional synchronous channel capable of supporting digitized circuit-switched voice (CSV) and/or data (CSD) communications at speeds up to 64 Kbps, between the customer's premises and the Company's central office.

B-Channel Circuit-Switched Data

Circuit-switched data provides the capability of placing data calls over the public switched network. Information is transmitted in the same manner as digitized voice. Like a voice call, a circuit-switched data call ties up network/system resources for the duration of the call. Calling Line Identification functionality is provided on circuit-switched data calls.

B-Channel Alternate Circuit-Switched Voice/Data

Allows the user to originate and receive either voice calls or data calls over a single circuit-switched B Channel, but not simultaneously.

BRI - Basic Rate Interface

The ISDN BRI combines two 64Kbps B channels and one 16Kbps D channel (2B+D) over one Digital Subscriber Line (DSL).

Channel

The electrical path provided by the Company between two or more points for the transmission of voice or data communications.

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A. DESCRIPTION

Integrated Services Digital Network (ISDN) is a digital telecommunications service that provides integrated voice and data transmission capability to the customer's premise utilizing the public switched network. The Company provides ISDN Service via a Single Line Interface (SLI) which connects Company facilities to the point of demarcation at the customer's premises. SLI ISDN Service consists of up to three distinct channels on one pair of wires; two B (Bearer) Channels and one D (Delta) Channel.

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The electrical path provided by the Company between two or more points for the transmission of voice or data communications.

Clear Channel Capability

The capability to transport 64 Kbps over a channel with no constraint on the quantity or on the sequence of bits. When a clear channel call is switched through non-ISDN offices, the call may be subrated to 56 Kb digital or analog service

D (Delta) Channel

An ISDN D-Channel is a 16 Kbps digital signaling channel that carries signaling and/or control for the B Channels. The D Channel may optionally be used to transmit X.25 packet data information, at speeds up to 9.6 Kbps, between the customer's premises and the Company's central office.

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B. DEFINITIONS (Cont'd)

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Clear Channel Capability

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D (Delta) Channel

The Packet-switched channel on a DSL at 16 Kbps, or a PRI at 64Kbps that carries signaling messages and packet-switched user data. *

D-Channel Packet-Switched Data

An X.25 logical circuit which allows users to originate and receive X.25 data calls over their ISDN D-Channel. Multiple data calls can be active simultaneously on a single D-Channel.

Device (also referred to as Terminal)

An ISDN device is an ISDN telephone or computer with ISDN interface equipment that is attached to an ISDN line. An ISDN device is classified as customer premises equipment (CPE). It is the responsibility of the customer to obtain and operate the ISDN device.

DSL - Digital Subscriber Line (See BRI or PRI Descriptions) +

Integrated Services Digital Network (ISDN)

ISDN provides end-to-end digital communications and gives the ability to transmit voice and data over the same telephone line simultaneously. A customer can send information from a computer and talk to the person on the other end of the line at the same time. This functionality is provided by channelized transport facilities.

NT-1 Interface

Equipment installed at the customer's location that converts data in ISDN line format to a format that can be utilized by the customer's ISDN telephones and ISDN computer interface equipment. One NT-1 is required per SLI. The NT-1 may be a separate piece of equipment, or may be integrated into the ISDN telephone set or computer interface equipment. The NT-1 Interface is classified as network terminating equipment, and is the property of the Company.

Primary Directory Number (PDN)

The first telephone number that is assigned to one DSL. Only one PDN is allowed on a DSL. *

PRI-Primary Rate Interface

The ISDN PRI combines 23 b-channel and one 64Kbps D-Channel on a single line. Also called the extended Digital Subscriber Line. +

Secondary Directory Number (SDN)

Telephone numbers that can be dialed by customers that are assigned to one DSL in addition to the first telephone number. *

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B. DEFINITIONS (Cont'd)

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Primary Directory Number (PDN)

The first telephone number that is assigned to one SLI. Only one PDN is allowed on an SLI.

Secondary Directory Number (SDN)

Telephone numbers, that can be dialed by customers, that are assigned to one SLI in addition to the first telephone number. Up to seven SDNs can be assigned to one SLI.

Single Line Interface (SLI) (also referred to as Equipment Number)

A two-wire digital subscriber loop facility which connects the customer's premises and the Company's central office. One SLI facility supports up to two 64 Kbps B-Channels and one 16 Kbps D-Channel. This configuration is commonly referred to as 2B+D.

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C. SERVICE DESCRIPTION

ISDN is offered in two different channel structures. The first is Basic Rate Interface (BRI), and the second is Primary Rate Interface (PRI). Both use channels called "B" or Bearer channels and "D" or Delta channels. The B channel provides a transmission path for user information, such as voice and data, while the D channel carries signaling information and packet data.

Each B channel is a 64 kilobit per second (Kbps) clear channel connection. The D channel is a 16 Kbps packet channel that is used to send and receive call set-up and signaling messages to the terminal equipment (customer premises equipment), and carry limited packet data.

1. BRI -- Basic Rate Interface

The BRI normally includes two B channels and one D channel (2B+D), however it can be configured to only include a D channel, or one D channel and one B channel. The BRI supports the following:

- Simultaneous data and voice communications
- Data channel rates up to 64 Kbps
- Message-based signaling, separate from the voice/data channels
- Reliable packet switched data transmission.

B-Channel

- 64 Kbps per channel
- Voice or data
- Circuit or packet switched

D-Channel

- 16 Kbps
- Signaling messages and packet data
- Packet-switched
- Defined for customer usage

2. PRI -- Primary Rate Interface

The basic PRI includes twenty three B channels and one D channel (23B+D), However it can be configured to include multiple D channels, and up to a maximum of 479 B channels. The PRI supports the following:

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C. SERVICE DESCRIPTION (Continued)

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2. PRI – Primary Rate Interface (Continued)

- Non-Facility Associated Signaling (NFAS) – allows multiple DSI facilities to be controlled by a single PRI D channel.
- PRI D-Channel Backup (DCBU) – this capability can only be assigned to a NFAS group and allows a customer access to the network even if the “active” D-channel were to fail. This is accomplished by transferring signaling information to the “standby” D-channel
- Fractional DSI Switching (N x DS0) Via PRI – allows a multi-bearer service capability by switching multiple rates of 64Kbps (i.e., N X DS0 – where N is greater than 2 and less than or equal to 24).
- Dedicated – the entire trunk group is dedicated to a specific service (data, 800 service, DID, etc.)
- Call-by-call – Different types of service can be included in the same trunk group (IXC access, OUTWATS, DOD, etc.) Any call can be used for any service as long as there are available facilities (both B channels and service type) for the call.

B-channel

- 64 kbps per channel
- Voice or data
- Circuit-switched
- Up to 479 channels per PRI (using multiple physical connections) defined as required for customer usage where facilities permit.

D-channel

- 1 is required, 2 if optional back-up selected and more than one physical link is used.
- 64 Kbps per channel
- Control and signaling messages

PRI ISDN is usually provisioned using one or more T-1 facilities

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D. TERMS AND CONDITIONS

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1. General

- a. The customer or customer's authorized agent will be responsible for the procurement of associated customer designated premises equipment and will ensure compatibility with the ISDN digital switch serving the customer.
- b. Reserved for Future use *
- c. The Company shall terminate ISDN Service at the Company network interface (NT-1). *
- d. Should any change in CPE or inside wiring not owned by the Company require the Company to redesign ISDN service, the customer shall reimburse the Company for all costs incurred by the Company in making such a change. Should ISDN service fail due to CPE, inside wiring (including riser cable) not owned by the Company, or power failure the responsibility for failure shall be solely that of the customer and the Company shall have no liability of any kind.
- e. The customer is responsible for placement, installation, operation, maintenance, repair and replacement of all CPE and inside wire not owned by the Company that the customer uses in connection with this service. CPE and premises wiring must be compatible with the Company's provision of ISDN Service. The customer is responsible for programming all features and functions into the ISDN CPE. The company will perform this service on a Time and Charges Basis at the customer's request. +
- f. If an ISDN service interruption, disconnection, error, performance failure, or out-of-service condition occurs, and lasts for more than 24 consecutive hours after the customer notifies the Company of the condition, an out-of-service credit will be applied to the customer's bill. Should the condition be caused by actions of the customer, CPE, inside wiring and/or interface no credit will be applied. This service will be based on a 30 day month and shall be calculated by dividing the monthly rate for the service affected by 30 days and then multiplying that daily rate by the number of days, or major fraction thereof, that the service was interrupted. This will be the customer's sole remedy.
- g. The minimum service period for ISDN Service is six months. If a customer terminates service prior to the completion of the greater of six months of his/her contract period, the customer shall remain liable for payment of the contract period or six full months of service as appropriate. PRI service may be purchased at a discount by signing a 3 or 5 year contract. *

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C. TERMS AND CONDITIONS

1. General

- a. The customer or customer's authorized agent will be responsible for the procurement of associated customer designated premises equipment and will ensure compatibility with the ISDN digital switch serving the customer.
- b. Single Line ISDN Service includes a comprehensive 2B+D package. Contained in the standard package are numerous voice and data features. The standard features and functions support two devices per SLI. Within the standard package there is limited flexibility for customization and various optional features can be added. Single Line ISDN Service does not provide B-Channel Packet Service capabilities.
- c. The Company shall terminate Single Line ISDN Service at the Company network interface (NT-1).
- d. Should any change in CPE or inside wiring not owned by the Company require the Company to redesign ISDN service, the customer shall reimburse the Company for all costs incurred by the Company in making such a change. Should ISDN service fail due to CPE, inside wiring (including riser cable) not owned by the Company, or power failure the responsibility for failure shall be solely that of the customer and the Company shall have no liability of any kind.
- e. The customer is responsible for placement, installation, operation, maintenance, repair and replacement of all CPE and inside wire not owned by the Company that the customer uses in connection with this service. CPE and premises wiring must be compatible with the Company's provision of ISDN Service. The customer is responsible for programming all features and functions into the ISDN CPE.
- f. If an ISDN service interruption, disconnection, error, performance failure, or out-of-service condition occurs, and lasts for more than 24 consecutive hours after the customer notifies the Company of the condition, an out-of-service credit will be applied to the customer's bill. Should the condition be caused by actions of the customer, CPE, inside wiring and/or interface no credit will be applied. This service will be based on a 30 day month and shall be calculated by dividing the monthly rate for the service affected by 30 days and then multiplying that daily rate by the number of days, or major fraction thereof, that the service was interrupted. This will be the customer's sole remedy.
- g. The minimum service period for ISDN Service is six months. If a customer terminates service prior to the completion of six months, the customer shall remain liable for payment for six full months of service.

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C. TERMS AND CONDITIONS (Cont'd)

2. Availability

- a. The rates and charges for SLI ISDN Service are applicable only to customers in those areas that have been designated by the Company as having SLI ISDN Service available. Customers in those areas where the Company has not designated that ISDN SLI service is available may be eligible to obtain ISDN SLI service, subject to Company approval, at rates and charges determined on an individual case basis using Special Services Arrangements. The Company reserves the right not to provide SLI ISDN Service to any location in which it is not equipped to do so.
- b. SLI ISDN Service may be provided to customers from a central office other than their normal serving office depending on the availability of facilities.
- c. Some services are not available and/or compatible with ISDN.

3. Indemnification

- a. It is the customer's responsibility to indemnify and hold harmless the Company against any and all claims, losses, liabilities, damages and lawsuits brought by any nonparty and arising, in whole or in part, out of the customer's material breach of this tariff. Indemnification shall include, but is not limited to, costs and attorney's fees.
- b. The customer is responsible for the content of communications. Where the customer's negligence or wrongful actions in using CPE, inside wire not owned by the Company, or customer's communications result in any claim or legal action brought by a nonparty, the customer shall indemnify and hold the Company harmless.

4. Protection of the Network

- a. The Company has the right and option to check the output of any equipment used in the transmission of signals, to or from the customer premises, for this service. This includes Company-provided facilities or other companies' facilities used in connection with the provision of ISDN capabilities, such as customer-provided equipment.
- b. The Company will notify the customer of any deviation from the authorized transmissions or specifications established in provision of the service.

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C. TERMS AND CONDITIONS (Cont'd)

4. Protection of the Network (Cont'd)

- c. Upon notification by the Company that unauthorized transmissions are present due to customer equipment or facilities, the customer or customer's authorized agent will correct the situation on an expeditious basis. If the correction is not forthcoming on an expeditious basis, the Company may, at its sole discretion, disconnect service to protect the network. The Company shall not be liable for and disclaims liability for losses which might be incurred as a result of disconnecting the service and disclaims any and all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. With respect to such equipment or service, the Company shall not be liable for any incidental or consequential damages, including but not limited to loss, damage, or expense directly or indirectly arising from the customer's use of or inability to use this service or equipment, either separately or in combination with other services or equipment.

D. STANDARD FEATURES AND FUNCTIONS

Description

Two sets of features are being offered with SLI ISDN Service; one set for voice and one set for data. Because of CPE selected by the customer or the customer's agent, some of the features offered may function differently, may not be available, or may be required to be offered via an access code. The standard features and functions support two devices per Single Line Interface (SLI). Any ISDN feature may be activated by depressing a button on the ISDN set or by dialing an access code. The customer can assign how each feature is activated. The feature sets are as follows:

1. Voice Features

- a. Analog Call Appearance - enables analog station users to share their call appearance on an SLI ISDN Service user's device. All Analog Call Appearances must be provisioned from the same serving central office as the SLI ISDN Service. One appearance, per number, per device is allowed. Some analog services are not compatible with SLI ISDN Service.
- b. Additional Call Offering - allows the user to be notified of an additional call when the telephone set is busy. Similar to conventional Call Waiting, multiple incoming calls to a directory number or secondary directory number (if purchased) can be terminated to the telephone.
- c. Call Appearance - is the position on the device to which numbers are assigned. A Directory Number can be shared by more than one ISDN device. The quantity and/or position of Primary Directory Number (PDN), Secondary Directory Numbers (SDN), Analog Call Appearance (ACA) and Shared Call Appearances (SCA) are limited by the configuration of the ISDN CPE. A total of four call appearances per device are included in the standard package.

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D. STANDARD FEATURES AND FUNCTIONS (Cont'd)

1. Voice Features (Cont'd)

d. Call Exclusion - This feature has two options:

Automatic Exclusion - allows a user to restrict other users that share a Directory Number from bridging onto an active call or retrieving a held call. This option is automatically invoked whenever the user goes off hook to receive or place a call.

Manual Exclusion - allows a user to restrict other users, which share a Directory Number from bridging onto an active call or retrieving a held call. This option is activated by pressing a feature button or dialing a code before dialing a call or during a call.

e. Call Forwarding Busy Line - All Calls (Pre-programmed) - allows all calls to a busy Primary Directory Number to be forwarded to another number.

f. Call Forwarding - Don't Answer (Pre-programmed) - allows all calls terminating to an idle Primary Directory Number to be forwarded to another number when the called PDN does not answer after a predetermined number of seconds.

g. Call Forwarding Variable - All Calls - allows a user to forward all Primary Directory Number calls to another number by pressing the Call Forwarding-Variable feature button or dialing a code. The forward-to number is customer changeable. The user must activate or deactivate the forwarding function by using either an access code or a feature button. The standard configuration provides for this feature on a feature button.

h. Call Hold - allows the user to place a call on hold by depressing a button or dialing a code.

i. Call Transfer - enables the user to transfer a call to a third party by depressing a button or dialing a code.

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D. STANDARD FEATURES AND FUNCTIONS (Cont'd)

1. Voice Features (Cont'd)

- j. Clear Channel Capability - a characteristic of the transmission paths on the B Channels that allows the full bandwidth of 64 Kbps to be available to the customer. It is also possible to bridge two B Channels together to achieve data transmission speeds of 128 Kbps. However, ISDN interconnection to or through non-ISDN equipped central offices will potentially be subjected to analog transmission or sub-rated to 56 Kbps per channel.
- k. Conference (3 way)- allows a user to establish a three-way conference call by depressing a button or dialing a code.
- l. Display - Provides the ISDN terminal a display of the time and date, calling number, call appearance identification, called number, incoming call identifier and feature activation operation.
- m. Drop - allows a user to drop the last party added to a conference call or to disconnect a two-party call by depressing a button or dialing a code.
- n. Intercom - allows a user to establish a dedicated priority call to any other station that is a member of the same intercom group within the same central office. Special alerting, depending on CPE, is provided for an incoming intercom call. Intercom is only available with multi-line service.
 - 1) Auto Intercom - when deployed with multi-line service, allows two members to be part of an intercom group, which enables intercom calls to be completed by depressing the feature button. Dialed digits are not required.
 - 2) Dial Intercom - allows a user to establish a call to any other station that is a member of the same intercom group. This is done by pressing the Intercom button and dialing one or two digits. Special alerting, depending on CPE, is provided for an incoming Intercom call.

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D. STANDARD FEATURES AND FUNCTIONS (Cont'd)

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1. Voice Features (Cont'd)

- o. Primary Directory Number (PDN) - Each ISDN line is assigned one PDN. Up to 8 ISDN Devices (ISDN phones or computers with ISDN interfaces) are allowed on each PDN. Secondary Directory Numbers are available for ISDN devices after the first one.
- p. Ringling Options - allows ISDN customers to establish flexible call handling arrangements for answering incoming calls that terminate on the shared Call Appearances of a Directory Number. The ringling options available on a per-device basis for a shared Directory Number are as follows:
 - 1) Abbreviated Ringling - assigned for a user who wants the device to begin ringling immediately for an incoming call and to stop ringling after "N" seconds.
 - 2) Delayed Ringling - assigned for an incoming call to be delayed for "N" seconds, however, the Call Appearance indicator or "status" lamp begins flashing immediately.
 - 3) No Ringling - assigned for a user who desires no ringling for an incoming call that terminates on a Call Appearance of that Directory Number.
 - 4) Normal Ringling - Ringling begins immediately for an incoming call and continues until the call is forwarded, answered, or abandoned.
- q. Secondary Directory Number (SDN) - is any directory number other than the Primary Directory Number assigned to an ISDN device. If more than one SDN is assigned to a device, additional charges will apply.
- r. Shared Call Appearance - allows several devices to share one or more call appearances for a particular directory number. Origination of and termination of calls on one terminal will affect all terminals sharing the call appearance. This service is only available with multi-line ISDN service.
- s. Speed Calling - permits a user to dial pre-programmed numbers using fewer digits than normally required. A speed call list allows for up to thirty preprogrammed numbers per terminal.
- t. Standard Configuration Group - the standard arrangement which associates a button of an ISDN station set to a feature.
- u. Visual Message Waiting Indicator - is available on PDNs and notifies the user of a message waiting by lighting a lamp on the customer's phone. Messages may be retrieved by calling the message service center or by accessing a voice mail system. The feature is dependent on the serving ISDN equipped central office and the customer's equipment

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D. STANDARD FEATURES AND FUNCTIONS (Cont'd)

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2. Data Features

- a. Call Forwarding Busy Line For Circuit-Switched Data - permits all circuit-switched data calls attempting to terminate to a busy Primary Directory Number to be redirected to another customer-specified directory number. A busy line condition exists when a circuit-switched data B-channel is unavailable. This feature can either be assigned to the user on an active basis or it can be assigned to a feature button or feature code that can be activated or deactivated by the user. If the feature is assigned to a feature button or feature code, the forward-to directory number can be changed by dialing an access code and programming the new forward-to directory number.
- b. Call Forwarding Don't Answer For Circuit-Switched Data - permits all circuit-switched data calls attempting to terminate to an idle Primary Directory Number to ring a specified number of seconds prior to being forwarded to a previously specified directory number. This feature can either be assigned to the user on an active basis or it can be assigned to a feature button or feature code that can be activated or deactivated by the end user. If the feature is assigned to a feature button or feature code, the forward-to directory number can be changed by dialing an access code and programming the new forward-to directory number.
- c. Call Forwarding Variable-All Calls For Circuit-Switched Data - allows circuit-switched data calls attempting to terminate to a line to be redirected to another specified line. The user must activate or deactivate the forwarding function by either using a feature code or a feature button. If the feature is assigned to a feature button or feature code, the forward-to directory number can be changed by dialing an access code and programming the new forward-to directory number.

3. D-Channel Packet-Switched Data Features

- a. X.25 Flow Control Parameter Negotiation - permits negotiation on a per-call basis of the flow control parameters associated with a given virtual call, such as packet size and window size for each direction of data transfer. The data window size and the maximum packet size is negotiated automatically during an X.25 data call.
- b. X.25 Logical Channels - virtual circuits rather than physical circuits are used to establish packet switch calls. When a virtual circuit is established, a logical channel is assigned at the CPE and the switch for the duration of the call. A virtual circuit does not use any capacity of the facility unless data is actually being transferred. Two logical channels are provided per DSL.
- c. X.25 Throughput Class Negotiation - permits negotiation on a per-call basis of the throughput class for each direction of data transfer associated with a virtual call. The data terminal can negotiate the throughput class for an X.25 data call.

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RULES AND REGULATIONS

INTEGRATED SERVICES DIGITAL NETWORK

E. RATES AND CHARGES

AUG 1 1997

1. Federal Subscriber Line Charges are applied per ISDN SLI.
2. The standard package includes a total of four call appearances per terminal. The four call appearances will include one Primary Directory Number and three call appearances made up of the following:
 - Maximum of one Secondary Directory Number
 - Maximum of three call appearances of the Primary Directory Number (same number)
 - Maximum of four call appearances of the Secondary Directory Number (same number)
 - Maximum of one Analog Call Appearance
 - Maximum of two Shared Directory Numbers
3. Additional call appearances are available at rates and charges specified in Optional Features and Functions.
4. Single Line ISDN Service includes up to 200 hours per month of aggregate usage for circuit-switched voice and circuit-switched data. Additional usage in excess of the 200 hours in a monthly billing period, will incur measured usage charges as set forth in RATES AND CHARGES, Section E. 5. b.

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**RULES AND REGULATIONS
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F. RATES AND CHARGES (Cont'd)

REC'D JAN 15 1999

5. Rates and Charges for ISDN Service are as follows:

a. BRI – Base Rate Interface including standard features and functions, each

	<u>NRC</u>	<u>Monthly</u>	+
Residence	\$110.00	\$40.00	
Business	\$110.00	\$50.00	+

b. PRI – Primary Rate Interface including standard features and functions, each

	<u>NRC</u>	<u>Monthly</u>	+
6 Month Contract	\$300.00	\$690.00	
3 Year Contract	\$250.00	\$620.00	
5 Year Contract	\$200.00	\$575.00	+

c. Change Charges

1.) Changes made to a DSL, per order	\$20.00	N/A
2.) Feature changes, per order	\$15.00	N/A

* Customers who cancel service prior to the expiration of their contract term will be liable for the number of months remaining on the contract times the monthly charge.

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+ Indicates new rate or text
* Indicates change

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E. RATES AND CHARGES (Cont'd)

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5. Rates and Charges for ISDN SLI Service are as follows:

	<u>NRC</u>	<u>Monthly</u>
a. Single Line Interface Access including Standard Features and Functions, each	\$110.00	\$65.00
b. Usage Charges for Circuit-Switched Voice/Data use in excess of the monthly allowance		
- Day (8:00 a.m. to 5:00 p.m.) Rate, per minute	\$ 0.10	
- Night (5:00 p.m. to 8:00 a.m.) Rate, per minute	\$ 0.08	
c. Change Charges		
i.) Changes made to a SLI, per order	\$ 20.00	N/A
ii.) Feature changes, per order	\$ 15.00	N/A
d. Usage Charges for D-Channel Packet Switching		

Packet transport provides for the routing of data through the Public Packet Switching Network (PPSN) in both the originating and terminating directions. Usage charges are billed monthly based on the number of kilosegments transmitted through the PPSN for all types of access, and is rated on a per kilosegment basis. A segment consists of 64 octets of customer data. For example, a packet of 128 octets will be billed as two segments.

Usage charges are rounded up to the next whole kilosegment within a billing period.

	<u>RATE</u>
D-Channel Usage, per kilosegment	\$ 0.12

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E. RATES AND CHARGES (Cont'd)

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5. Rates and Charges for ISDN SLI Service (Cont'd)

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	<u>NRC</u>	<u>Monthly</u>
e. Optional Features and Functions		
- Additional Analog Call Appearance, per number	\$ 7.00	\$ 1.00
- Additional Call Appearances, per appearance	\$ 7.00	\$ 1.00
- Additional X.25 Logical Channel, per logical channel	\$ 12.00	\$ N/A
- Additional Primary Directory Number, per PDN [1]	\$ 15.00	\$ 5.00
- Additional Secondary Directory Number, per SDN	\$ 10.00	\$.50
- Additional Shared Call Appearance, per appearance	\$ 7.00	\$ 1.00
- Audible Message Waiting Indicator, per PDN	\$ 10.00	\$ N/A
- Call Forwarding Busy Line-All Calls, per number [2]	\$ 12.00	\$ N/A
- Call Forwarding Don't Answer-All Calls, per number [2]	\$ 12.00	\$ N/A
- Call Forwarding Variable-All Calls, per SDN [2]	\$ 12.00	\$ N/A

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[1] Inherent with the purchase of an additional PDN are all of the standard voice and data features for Single Line Interface ISDN Service.

[2] Optional with Additional Secondary Directory Numbers.

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**RULES AND REGULATIONS
INTEGRATED SERVICES DIGITAL NETWORK**

Missouri Public
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F. RATES AND CHARGES (Cont'd)

REC'D JAN 15 1999

	<u>NRC</u>	<u>Monthly</u>
d. Optional Features and Functions (Cont'd)		
Call Pick-Up, per number	\$ 12.00	\$ N/A
Non-Standard Configuration Group, per button	\$ 13.00	\$ N/A
Six-Way Conference, per terminal	\$ 18.00	\$ 1.00
Speed Calling 8, per terminal	\$ 15.00	\$ 1.00
X.25 Fast Select Acceptance, per number	\$ 10.00	\$ N/A
X.25 Reverse Charge, per number	\$ 10.00	\$ N/A
X.25 Reverse Charge Acceptance, per number	\$ 10.00	\$ N/A

*

+ Indicates new rate or text
* Indicates change

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RULES AND REGULATIONS

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E. RATES AND CHARGES (Cont'd)

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5. Rates and Charges for ISDN SLI Service (Cont'd)

	<u>NRC</u>	<u>Monthly</u>
e. Optional Features and Functions (Cont'd)		
- Call Pick-Up, per number	\$ 12.00	\$ N/A
- Non-Standard Configuration Group, per button	\$ 13.00	\$ N/A
- Six-Way Conference, per terminal	\$ 18.00	\$ 1.00
- Speed Calling 8, per terminal	\$ 15.00	\$ 1.00
- X.25 Fast Select Acceptance, per number	\$ 10.00	\$ N/A
- X.25 Reverse Charge, per number	\$ 10.00	\$ N/A
- X.25 Reverse Charge Acceptance, per number	\$ 10.00	\$ N/A

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