

**1. ISDN DIRECT SERVICE<sup>/1/</sup>** (T)**A. General Description**

1. ISDN Direct Service is a Single Line Business Exchange Service that provides access to Circuit Switched Voice Service, Circuit Switched Data Service and Packet Switched Data Service. (T)
2. An ISDN Direct Service Line consists of Central Office facilities, including the outside plant facilities, extended from the Company's switching equipment to the customer's premises. (T)
3. An ISDN Direct Service Line utilizes an ISDN basic rate interface that provides for two 64 Kbps "B" channels and one 16 Kbps "D" channel (2B+D). (T)

**B. Service Descriptions****1. Circuit Switched Voice Service**

Circuit Switched Voice Service provides the ability to originate and receive circuit switched voice calls over the 64 Kbps "B" channel.

**a. Standard Circuit Switched Voice Service Features****(1) Analog Line Pickups**

An arrangement that allows analog lines to have a line appearance on a customer-provided Key Line set. This arrangement is limited to analog lines 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.

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)**

(T)

**B. Service Descriptions (cont'd)****1. Circuit Switched Voice Service (cont'd)****a. Standard Circuit Switched Voice Service Features (cont'd)**

- (2) **Call Hold**  
An arrangement that allows a station user to hold a call in progress by depressing a programmed button on a customer-provided set.
- (3) **Call Transfer**  
Incoming and outgoing calls may be transferred to other business lines. The customer initiating the transfer is responsible for any local or toll charges on transferred calls.
- (4) **Called Number Display**  
The called number is displayed on compatible customer premises equipment when an outgoing call is placed.
- (5) **Caller ID**  
The caller's number, if not blocked, is displayed on compatible customer premises equipment when an incoming call is received. The Caller ID feature will forward the calling number from the appropriately equipped originating Central Office to the customer provided display device.

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)**

(T)

**B. Service Descriptions (cont'd)****1. Circuit Switched Voice Service (cont'd)****a. Standard Circuit Switched Voice Service Features (cont'd)**

- (6) **Conference Calling (Three Way)**  
Allows a user to hold incoming or outgoing calls, initiate another call, then return to the original call, adding on the last party.
- (7) **Denied Origination**  
Allows call terminations, but prevents the origination of a call.
- (8) **Denied Termination**  
Allows call originations, but prevents the termination of a call.
- (9) **Hunting**  
Incoming calls to a busy line appearance are redirected to a predetermined telephone number to search for a line on which to complete the call. This may be another circuit switched voice channel, another ISDN station or an analog line. The types of hunting are limited to Series Completion, Multi-Line and Circular. This feature may impact the use of Shared Call Appearance and Multiple Call Appearance in certain serving Central Offices.

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)**

(T)

## B. Service Descriptions (cont'd)

## 1. Circuit Switched Voice Service (cont'd)

## a. Standard Circuit Switched Voice Service Features (cont'd)

## (10) Multiple Call Appearances

Provides up to four appearances of the station's primary directory number or secondary telephone number on the same instrument. These appearances may provide additional access from the public network, and/or may originate unique dial tone for additional outgoing access (see Additional Multiple Call Appearance for applications that require more than four call appearances on the same device). This feature may impact the use of Shared Call Appearance in certain Central Offices.

## (11) Shared Call Appearance

Provides the capability to terminate telephone numbers from one ISDN station to another. These numbers will be configured in a Single Call Arrangement (SCA). SCA allows only one set to be active (either originating or terminating) on the Shared Call Appearance at any given time. Manual Exclusion capabilities are available in this arrangement.

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)**

(T)

## B. Service Descriptions (cont'd)

## 1. Circuit Switched Voice Service (cont'd)

## b. Optional Circuit Switched Voice Features

## (1) Additional Call Offering

Provides notification to an ISDN user that a call directed to that user is present at the service switch, even though no B Channel can be allocated for the call. Once notified, the user may free up a B Channel (by clearing another call or placing another call on hold) in order to accept the additional call. This feature provides similar functionality as that provided by Call Waiting for the analog telephone user.

## (2) Additional Multiple Call Appearances

Provides additional call appearances, beyond the initial four appearances, of a station's primary directory number or secondary telephone number on the same instrument. These appearances may provide additional access from the public network and/or may originate unique dial tone for additional outgoing access.

## (3) Alternate Answering

Automatically transfers incoming calls that encounter a don't answer condition after a predetermined number of rings to a designated exchange telephone number or Direct Inward Dialing Service (DID) Station Number. The charges and rates for this optional feature are specified in Part 7, Section 3, of this tariff.

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)****B. Service Descriptions (cont'd)**

## 1. Circuit Switched Voice Service (cont'd)

## b. Optional Circuit Switched Voice Features (cont'd)

## (4) Automatic Callback

Automatically returns the last incoming call whether or not it was answered. If the number is busy, Automatic Callback will continue to redial the number for up to 30 minutes. The charges and rates for this optional feature are specified in Part 7, Section 2.

(C)

## (5) Busy Line Transfer

Automatically transfers incoming calls to an alternate designated exchange telephone number or Direct Inward Dialing Service (DID) Station Number when the called telephone number is busy. Charges and rates for this optional feature are specified in Part 7, Section 3.

(C)

## (6) Call Forwarding Variable

Automatically transfers all incoming calls to another telephone number designated by the customer. Charges and rates for this optional feature are specified in Part 7, Section 1.

(C)

## (7) Call Screening

Allows the customer to block incoming calls from up to a maximum of ten telephone numbers. Charges and rates for this optional feature are specified in Part 7, Section 2.

(C)

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)**

(T)

**B. Service Descriptions (cont'd)****1. Circuit Switched Voice Service (cont'd)****b. Optional Circuit Switched Voice Features (cont'd)****(8) Intercom Calling**

This capability allows a voice user to be able to call another voice user within the electronic key telephone service (EKTS) intercom group without affecting the busy/idle status of any of the directory numbers (DNs) of the calling voice user. Intercom groups can consist of just one other voice user, requiring no intercom address, can consist of two to ten voice users, requiring a one-digit intercom address, or can consist of two to one hundred voice users, requiring a two-digit intercom address. This is a form of abbreviated dialing in that one voice user can dial another by simply hitting the intercom button and then dialing no digits, one or two digits, respectively.

**(9) Message Waiting Indicator**

Provides the ability to indicate to the ISDN station user that they have a voice or electronic message waiting at their Message Storage and Retrieval (MSR) System. The Message Waiting Indicator may be used to present either a visual or audible signal to the user as determined by the customer's equipment.

**(10) Repeat Dialing**

Automatically redials the last outgoing number dialed, whether the call was answered or not. If the called number is busy, the number is automatically redialed for up to 30 minutes. Charges and rates for this optional feature are specified in Part 7, Section 2, of this tariff.

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)**

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**B. Service Descriptions (cont'd)****1. Circuit Switched Voice Service (cont'd)****b. Optional Circuit Switched Voice Features (cont'd)****(11) Secondary Telephone Number**

Provides an additional telephone number and one call appearance which is not physically terminated, but exists in the programming of circuit switched voice. The additional directory number, while not terminated on a dedicated facility, may be accessed from the network, and may originate unique outgoing dial tone from one instrument that has another directory number as its primary directory number.

**(12) Station-Controlled Conference (6 Port)**

Allows a station user to establish a conference call consisting of a maximum of six conferees, including the originator of the call.

**(13) Speed Calling**

Allows calling to other telephone numbers by dialing an abbreviated code rather than the complete telephone number. Available with an 8 or 30 telephone number capacity. Charges and rates for this optional feature are specified in Part 7, Section 1, of this tariff.

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)** (T)

## B. Service Descriptions (cont'd)

## 2. Circuit Switched Data Service (Data Capabilities)

Provides the ability to originate and receive circuit switched data calls over the 64 Kbps "B" channel. Data line speeds up to 64 Kbps are permitted. Circuit switched data calls will be subject to Local Message charges or Long Distance Message Telecommunications charges as specified elsewhere in this tariff.

## a. Standard Circuit Switched Data Service Features

- (1) **Caller ID**  
The caller's number, if not blocked, is displayed on compatible customer premises equipment when an incoming call is received. The Caller ID feature will forward the calling number from the appropriately equipped originating Central Office to the customer provided display device.
- (2) **Clear Channel Capability**  
Clear Channel Capability is provided since all signaling and control functions are handled by the "D" Channel. This allows all 64 Kbps on each "B" Channel to be used for customer information over the ISDN Direct line. Calls may be either 56 or 64 Kbps depending on the network capabilities in place between the ISDN Direct line and the distant end of the call. (T)
- (3) **Denied Origination**  
Allows call terminations, but prevents the origination of a call. (T)

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)** (T)

## B. Service Descriptions (cont'd)

## 2. Circuit Switched Data Service (Data Capabilities) (cont'd)

## a. Standard Circuit Switched Data Service Features (cont'd)

- (4) Denied Termination  
Allows call originations, but prevents the termination of a call.
- (5) Hunt Group for Shared Data Access  
Provides for the automatic search of a group of shared ports to find an available port in response to a connection request. The types of hunting are limited to Series Completion, Multi-Line and Circular.

## b. Optional Circuit Switched Data Service Features

- (1) Additional Call Offering  
Provides notification to an ISDN user that a call directed to that user is present at the service switch, even though no B Channel can be allocated for the call. Once notified, the user may free up a B Channel (by clearing another call or placing another call on hold) in order to accept the additional call. This feature provides similar functionality as that provided by Call Waiting for the analog telephone user.

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)**

(T)

**B. Service Descriptions (cont'd)****2. Circuit Switched Data Service (Data Capabilities) (cont'd)****b. Optional Circuit Switched Data Service Features (cont'd)**

- (2) **Alternate Answering**  
Automatically transfers incoming calls that encounter a don't answer condition after a predetermined number of rings to a designated exchange telephone number or Direct Inward Dialing Service (DID) Station Number. The charges and rates for this optional feature are specified in Part 7, Section 3, of this tariff.
- (3) **Busy Line Transfer**  
Automatically transfers incoming calls to an alternate designated exchange telephone number or Direct Inward Dialing Service (DID) Station Number when the called telephone number is busy. Charges and rates for this optional feature are specified in Part 7, Section 3, of this tariff.
- (4) **Call Forwarding Variable**  
Automatically transfers all incoming calls to another telephone number designated by the customer. Charges and rates for this optional feature are specified in Part 7, Section 1, of this tariff.

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(T)

**2. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)**

(T)

**B. Service Descriptions (cont'd)**

3. **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 Standard and Optional features that are applicable to Circuit Switched Voice Service and Circuit Switched Data Service are also applicable to this service.

4. **Packet Switched Data "B" Channel Service**  
Packet Switched Data "B" Channel Service provides the exclusive ability to originate and receive X.25 packet switched data calls over the 64 Kbps "B" channel. Standard features and optional features are defined in Part 6, Section 2. Additionally, the charges and rates for optional features, and X.25 packet switched data calls are specified in Part 6, Section 2. This arrangement provides up to 128 logical channels.

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)** (T)**B. Service Descriptions (cont'd)****5. Packet Switched Data "D" Channel Service**

Packet Switched Data "D" Channel Service provides the ability to originate and receive X.25 packet data calls over the 16 Kbps "D" channel. Standard features and optional features are defined in Part 6, Section 2. Additionally, the charges and rates for the optional features, and X.25 packet switched data calls are specified in Part 6, Section 2. This arrangement provides a maximum speed of 9.6 Kbps.

**6. On-Demand Packet Switched Data "B" Channel Service**

- a. This capability allows a user to request that a connection be established to provide the ability to originate and receive X.25 packet switched data calls over the 64 Kbps "B" Channel. (T)
- b. Standard capabilities and features for Packet Switched Network lines using X.25 access are included. (T)
- c. Provides up to 128 logical channels and throughput of up to 19.2 Kbps per individual logical channel. (T)
- d. Calls, optional capabilities and features for Packet Switched Network lines using X.25 are available at the charges and rates as specified in Part 6, Section 2. (T)

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)** (T)

## C. Regulations

## 1. Provision of Service

- a. ISDN Direct Service is provided at the option of the Company and is furnished subject to Central Office switching capacity and the availability of outside plant facilities. (T)
  - b. Where available, a maximum of 8 services, two of which may be "B" channel Services, are permitted for each ISDN Direct Service Line. (T)
  - c. The availability, functionality and capabilities of the ISDN Direct Service features may vary by type of serving Central Office switch. (T)
  - d. ISDN Direct Service may be provided by the Company, in selected Exchanges, to customers that are served by Central Offices that are not equipped to provide the service. The nonrecurring charges and recurring rates to provide the facilities for "virtually" served ISDN Direct Service will not be applicable to customers that elect this service arrangement. (T)
- (T)

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(T)

**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)** (T)

## C. Regulations (cont'd)

## 1. Provision of Service (cont'd)

## d. (cont'd)

The following regulations are applicable to ISDN Direct Service that is provided under this service arrangement: (T)

- (1) When the customer's serving Central Office is equipped to provide ISDN Direct Service, ISDN Direct Service will be provided by the customer's serving Central Office. This will require the customer to change his/her telephone number. When ISDN Direct Service customers change their service from the "virtually" served arrangement to being served by their serving Central Office, the nonrecurring charge(s) associated with the change will not be applicable. Customers that elect to continue ISDN Direct Service using this interim arrangement, after their serving Central Office has been equipped to provide ISDN Direct Service, will be billed the recurring rates for the facilities for "virtually" served ISDN Direct Service. (T)
- (2) Calls that are originated by customers using this service arrangement will be billed as if the calls were placed from the customer's serving Central Office. (T)
- (3) Calls that are terminated to customers using this service arrangement will be billed as if the calls were terminated in the Central Office actually providing the ISDN Direct Service. (T)

(T)

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(T)

**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)** (T)

## C. Regulations (cont'd)

## 1. Provision of Service (cont'd)

## d. (cont'd)

- (4) The availability, functionality and capabilities of ISDN Direct Service features may vary when an ISDN Service customer's serving Central Office is equipped to provide ISDN Direct Service. (T)  
(T)

## 2. Directory Listings

The Company will furnish without charge one Primary Directory Listing for each ISDN Direct Service Line. Additional listings may be provided as specified for Additional Listing Service in Part 12, Section 1, of this tariff. (T)

## 3. Transmission Specifications

An ISDN Direct Service Line consists of a non-loaded two-wire facility. (T)

The Standard Transmission parameters for an ISDN Direct Service Line utilizing an ISDN Basic Rate Interface (BRI) consists of: (T)

A maximum of 42db loop loss at a 40 KHz test tone terminate into a 135 ohm impedance. The 42db loss includes all Central Office facilities, outside plant facilities and inside wiring. (T)

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)****C. Regulations (cont'd)****4. Interface Specifications for Customer-Provided Equipment (CPE)**

Customer-Provided Equipment (CPE) compatibility requirements are listed in the Company's Technical References. All Customer-Provided Equipment used to interface with ISDN Direct Service is required to conform with the Technical Reference Specifications as used by the Company and found in the following Technical Reference:

<u>Subject</u>	<u>Technical Reference</u>
Ameritech ISDN Interface Specifications	AM-TR-NIS-000068

The Technical Reference can be obtained from:

APEX Support Team	(T)
(734) 523-7348	(T)

**5. Distance Extension Service**

An ISDN Direct Service Line may be provided to a customer's location served by the customer's normal serving Central Office but beyond the normal transmission parameters as specified in 3. preceding. In such cases, in addition to the charges and rates for an ISDN Direct Service Line, Distance Extension Service charges and rates are applicable as specified in F. following.

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)** (T)

## C. Regulations (cont'd)

## 6. Payment for Service

## a. Month-to-month Payment Plan

ISDN Direct Service is offered under a Month-to-Month Payment Plan. The charges and rates associated with the payment plan are specified in F. following. (T)

## b. Optional Term Payment Plan (OTPP)

ISDN Direct Service is offered under the Optional Term Payment Plan (OTPP) as specified in D. following. Customer may select the 36 month, 60 month or 84 month optional term payment plan periods. The charges and rates associated with the OTPP payment periods are specified in F. following. (T)

## 7. Temporary Suspension of Service

Temporary Suspension of Service is not offered with ISDN Direct Services.

(T)

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(T)

**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)** (T)

## C. Regulations (cont'd)

8. ISDN Direct Service lines may be provided to a customer's location outside the serving Central Office area. In such cases, in addition to the charges and rates in F following, appropriate mileage charges and rates are applicable. (T)

Each ISDN Direct Service line extended outside the customer's serving Central Office area will require a Design Order Charge, six Channel Mileage Terminations, and three Inter-Wire Center Channels as specified in Part 15, Section 3, for Base Rate Service. (T)

9. In cases where the customer's premises are in Independent Telephone Company (ITC) serving areas, the Company will assess Base Rate Inter-exchange Mileage charges only to the point of meet with the ITC or intermediate ITC. Charges for ITC services will be assessed by the ITC. (T)

10. Rates and charges for other services normally applied on a per line basis apply on a per channel basis for this service. (T)

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)** (T)

## D. Optional Term Payment Plan (OTPP)

## 1. General

- a. ISDN Direct Service is offered under an Optional Term Payment Plan (OTPP). (T)
- b. The OTPP allows a customer to pay a fixed monthly rate for an ISDN Direct Service Line over one of several payment periods. (T)
- c. A payment period is a period of time selected by the customer from those currently offered by the Company over which a specific monthly rate is paid.
- d. During the effective term of the selected payment period, the contracted for monthly rate will not be subject to a change (increase or decrease) initiated by the Company.

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)** (T)

## D. Optional Term Payment Plan (OTPP) (cont'd)

## 2. Regulations

## a. Additions of Service(s) to an Existing OTPP

An existing ISDN Direct Service customer that wants to add service(s) has the following options:

(1) The customer may add ISDN Direct Service(s) at the current charges/rates in effect for the Month-to-Month Payment Plan. (T)

(2) The customer may add ISDN Direct Service(s) at the current charges/rates in effect for the OTTP at the time the customer subscribed to the OTTP. Termination Liability Charges, as specified in e. following, are applicable to ISDN Direct Service(s) that are disconnected prior to the completion of the OTTP payment (T)

## b. Reductions of Service(s) to an Existing OTPP

An existing ISDN Direct Service customer that reduces service(s) will remain liable for the OTTP contracted rates as specified in e. following.

(T)

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)** (T)

## D. Optional Term Payment Plan (OTPP) (cont'd)

## 2. Regulations (cont'd)

## c. Extension of existing OTPP

An existing ISDN Direct Service customer may extend their existing OTPP. Customer that elect this option must select an OTPP payment period that is equal to or greater than the remaining life of their existing OTPP payment period. (T)

## d. Expiration of Existing OTPP

An existing OTPP customer, prior to the completion of the OTPP selected payment period, has the following options:

- (1) The customer can select any other available OTPP monthly rates. The customer will begin paying the new period OTPP monthly rates on the day following the expiration of the prior payment period.
- (2) If the customer does not elect a current OTPP payment period at the completion of the current payment period and does not request discontinuance of service, service will be continued at the then current rates for the month-to-month payment plan. The month-to-month payment rates will be subject to rate adjustments.

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)** (T)

## D. Optional Term Payment Plan (OTPP) (cont'd)

## 2. Regulations (cont'd)

## e. Termination of Existing OTPP

An existing ISDN Direct Service customer that selects a payment period exceeding the month-to-month payment period and disconnects any or all of their ISDN Direct Service(s) will incur Termination Liability Charges. Termination Liability Charges are determined by the application of the following formula: (T)

ISDN Direct Service(s) Selected by Customer	X	Associated OTPP Monthly Rate	X	Number of Months Remaining on OTPP	(T)
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The final amount is determined by calculating the present worth of the total at a discount rate equal to the Company's weighted cost of capital.

Termination Liability Charges are due and payment immediately upon termination of ISDN Service(s).

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**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)** (T)

## D. Optional Term Payment Plan (OTPP) (cont'd)

## 2. Regulations (cont'd)

## f. Moves or Location Changes

An existing ISDN Direct Service customer may move their location and retain the OTPP at the rates in effect at the time the customer subscribed to the OTPP if appropriate Central Office capacity and outside plant facilities are available. If an existing ISDN Direct Service customer moves their location and appropriate Central Office capacity and outside plant facilities are not available. Termination Liability Charges, as specified in e. are applicable. (T)

## E. Application Of Charges And Rates

1. Circuit Switched Voice calls will be subject to Local Message charges, Extended Community Calling Local Messages charges, or Long Distance Message Telecommunications Service charges as specified elsewhere in this tariff.
2. Circuit Switched Data calls will be subject to Local Message charges as specified in Part 4, Section 2, Extended Community Calling Local Message charges, or Long Distance Telecommunications Service charges as specified elsewhere in this tariff.
3. Packet Switched Data Calls will be subject to the charges and rates as specified in Part 6, Section 2.

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(T)



**1. ISDN DIRECT SERVICE<sup>/1/</sup> (cont'd)**

(T)

F. Charges And Rates

The following charges and rates are in addition to the charges and rates for any other services to furnish a communications system.

Description /Billing Code/	Install Charge	Month to Month	Monthly Payment <i>Term Payment Plans</i>			
			36 Months OTTP	60 Months OTTP	84 Months OTTP	
1. ISDN Direct Service Line, Per Line /N2Q/P2B/						(T)
2. Circuit Switched Voice Service, Per "B" Channel /LTQ5X/	\$50.00	\$15.50	\$15.30	\$15.10	\$14.90	
3. Circuit Switched Data Service, Per "B" Channel /LTQ6X/	15.00	3.00	2.80	2.60	2.40	
4. Alternate Circuit Switched Voice Service/Circuit Switched Data Service, Per "B" Channel /LTQ1X/	15.00	8.00	7.80	7.60	7.40	
	15.00	9.00	8.80	8.60	8.40	

/1/ Effective August 11, 1997, no new installations and changes to existing ISDN Direct Service will be accepted. Customers who are on a Term Payment Plan contract, longer than month-to-month, on the aforementioned date, will be permitted to expand their service until the expiration of their contract.

(T)

**1. ISDN DIRECT SERVICE<sup>2/</sup> (cont'd)**

(T)

F. Charges And Rates (cont'd)

Description /Billing Code/	Install Charge	Month to Month	Monthly Payment <i>Term Payment Plans</i>		
			36 Months OTTP	60 Months OTPP	84 Months OTTP
5. Packet Switched Data "B" Channel Service, Per "B" Channel /LTQ3X/	\$100.00	\$85.00	\$80.00	\$75.00	\$70.00
6. Packet Switched Data "D" Channel Service, Per "D" Channel /LTQ4X/					
7. On-Demand Packet Switched Data "B" Channel Service, Per "B" Channel /LTH7X/	15.00	6.50	6.30	6.10	5.90
8. Distance Extension Service, Per Line /XTN/	50.00	20.00	/1/	/1/	/1/
	-	20.75	/1/	/1/	/1/

/1/ Not available.

/2/ Effective August 11, 1997, no new installations and changes to existing ISDN Direct Service will be accepted. Customers who are on a Term Payment Plan contract, longer than month-to-month, on the aforementioned date, will be permitted to expand their service until the expiration of their contract.

(T)

**1. ISDN DIRECT SERVICE<sup>/2/</sup> (cont'd)**

(T)

F. Charges And Rates (cont'd)

Description	Install Charge	Month to Month	Monthly Payment <i>Term Payment Plans</i>		
			36 Months OTPP	60 Months OTPP	84 Months OTPP
9. Rearrangements Charges (Additions, Deletions and Changes) for:					
Circuit Switched Voice Service, Per Customer Request					
Circuit Switched Data Service, Per Customer Request	/1/				
	/1/				

/1/ Apply a Central Office Work Charge.

/2/ Effective August 11, 1997, no new installations and changes to existing ISDN Direct Service will be accepted. Customers who are on a Term Payment Plan contract, longer than month-to-month, on the aforementioned date, will be permitted to expand their service until the expiration of their contract.

(T)

**1. ISDN DIRECT SERVICE<sup>/2/</sup> (cont'd)**

(T)

F. Charges And Rates (cont'd)

Description /Billing Code/	Install Charge	Month to Month	Monthly Payment Term Payment Plans		
			36 Months OTTP	60 Months OTTP	84 Months OTTP
10. Optional Service Features					
Additional Call Offering /NCO/	\$5.00	\$2.50	/1/	/1/	/1/
Additional Multiple Call Appearances, Each /ACSPB/					
Intercom Calling /NZV/	5.00	2.00	/1/	/1/	/1/
Message Waiting Indicator, Each /MLN/	5.00	2.50	/1/	/1/	/1/
	5.00	2.50	/1/	/1/	/1/

/1/ Not available.

/2/ Effective August 11, 1997, no new installations and changes to existing ISDN Direct Service will be accepted. Customers who are on a Term Payment Plan contract, longer than month-to-month, on the aforementioned date, will be permitted to expand their service until the expiration of their contract.

(T)

**1. ISDN DIRECT SERVICE<sup>/2/</sup> (cont'd)**

(T)

F. Charges And Rates (cont'd)

Description /Billing Code/	Install Charge	Month-to- month	Monthly Payment Term Payment Plans		
			36 Months	60 Months	84 Months
10. Optional Service Features (cont'd)					
Secondary Telephone Numbers, Each /D06/					
Station Controlled Conference -6 Port /EQ6/	\$ 5.00	\$ 2.00	/1/	/1/	/1/
	15.00	14.00	/1/	/1/	/1/

/1/ Not available.

/2/ Effective August 11, 1997, no new installations and changes to existing ISDN Direct Service will be accepted. Customers who are on a Term Payment Plan contract, longer than month-to-month, on the aforementioned date, will be permitted to expand their service until the expiration of their contract.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup>** (T)**A. General Description**

1. National Integrated Services Digital Network (ISDN) Direct is a telecommunications service that provides an integrated voice/data communications capability for the transmission of circuit switched voice and data and packet switched data signals on an incoming and outgoing basis utilizing Integrated Services Digital Network architecture as recommended by the International Telephone and Telegraph Consultative Committee (CCITT) and the American National Standards Institute (ANSI), as defined by Telcordia Technical References, and consistent with the North American ISDN Users Forum (NIUF) Implementation Agreements (specifically, Implementation Agreements NIU.301 and NIU.302). (T)
2. National ISDN Direct provides the customer with the ability to combine Circuit Switched Voice, Circuit Switched Data and Packet Switched Data services over a single National ISDN Direct line. (T)
3. The two 64 Kbps "B" channels are used to transmit any combination of Circuit Switched Voice, Circuit Switched Data or high speed Packet Switched Data services. (T)
4. The "D" channel is used to carry network signaling and user-originated Packet Switched Data at speeds up to 9.6 Kbps.
5. National ISDN Direct Service is only available as a residence service.
6. The service is available from specially equipped digital switching equipment located in the Company's Central Offices and will be provided where facilities permit and where capacity is available. (T)

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)****B. Regulations**

1. Where available, a maximum of eight devices may be connected directly to the National ISDN Direct line. Only two of these devices are permitted to access the two "B" channels at the same time. (T)
  2. A variety of standard and optional features and capabilities are offered. The availability and functions of the features may vary by serving Central Office.
  3. National ISDN Direct lines are also subject to End User Common Line (EUCL) charges as filed by the SBC Operating Companies in Tariff F.C.C. No. 2. The customer shall be liable for all adjustments to the EUCL charge per National ISDN Direct line, per month, as authorized or mandated by the Federal Communications Commission (or by any regulatory body or commission or court of competent jurisdiction). (T)
  4. The rates shown for National ISDN Direct are exclusive of local and toll charges and associated customer premises equipment. (T)
  5. Distance Extension charges, as specified for ISDN Direct Service in this section of the tariff, will apply for customers served beyond the normal transmission range specified in the Company's ISDN Interface Specifications. (T)
- (T)
- (T)

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)****B. Regulations (cont'd)**

6. National ISDN Direct lines may be provided to a customer's location outside the serving Central Office area. In such cases, in addition to the charges and rates in E following, appropriate mileage charges and rates are applicable. (T)

Each National ISDN Direct line extended outside the customer's serving Central Office area will require a Design Order Charge, six Channel Mileage Terminations, and three Inter-wire Center Channels as specified in Part 15, Section 3, for Base Rate Service. (T)

7. In cases where the customer's premises are in Independent Telephone Company (ITC) serving areas, the Company will assess Base Rate Inter-exchange Mileage charges only to the point of meet with the ITC or intermediate ITC. Charges for ITC services will be assessed by the ITC. (T)
8. Rates and charges for other services normally applied on a per line basis apply on a per channel basis for this service. (T)

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)



**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)****B. Regulations (cont'd)**

9. National ISDN Direct service may be provided by the Company, in selected Exchanges, to customers that are served by Central Offices that are not equipped to provide the service. The nonrecurring charges and recurring rates to provide the facilities for "virtually" served National ISDN Direct service will not be applicable to customers that elect this service arrangement. (T)

The following regulations are applicable to National ISDN Direct that is provided under this service arrangement. (T)

- a. When the customer's serving Central Office is equipped to provide National ISDN Direct, National ISDN Direct service will be provided by the customer's serving Central Office. This will require the customer to change his/her telephone number. When National ISDN Direct service customers change their service from the "virtually" served arrangement to being served by their serving Central Office, the nonrecurring charge(s) associated with the change will not be applicable. Customers that elect to continue National ISDN Direct service using this interim arrangement, after their serving Central Office has been equipped to provide National ISDN Direct service, will be billed the recurring rates for the facilities for "virtually" served National ISDN Direct service. (T)
- b. Calls that are originated by customers using this service arrangement will be billed as if the calls were placed from the customer's serving Central Office. (T)

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd)****B. Regulations (cont'd)**

9. (cont'd)

- c. Calls that are terminated to customers using this service arrangement will be billed as if the calls were terminated in the Central Office actually providing the National ISDN Direct service.
- d. The availability, functionality and capabilities of National ISDN Direct service features may vary when an National ISDN Direct service customer's serving Central Office is equipped to provide National ISDN Direct service.

10. All customer provided equipment used to interface with National ISDN Direct service is required to conform with the Technical Reference Specifications as used by the Company and found in the following publication:

<u>Subject</u>	<u>Technical Reference</u>
Ameritech ISDN Interface Specifications	AM-TR-NIS-000068

The Technical Reference can be obtained from:

APEX Support Team  
(734) 523-7348

(T)  
(T)

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)****B. Regulations (cont'd)**

11. Residential ISDN customer premises equipment must be Class B compliant as set forth by the Code of Federal Regulations 47 CFR Part 15, Subpart A, Section 15.3, Paragraph I.
12. A National ISDN CO termination is required for each National ISDN Direct line. This enables the subscriber to configure circuit switched service elements and/or packet switched data services on the 2B + D National ISDN Direct line. (T)

**C. General (T)****1. Term Payment Plan**

- a. National ISDN Direct service is offered under a payment plan which allows the customer to pay for the service over a customer selected term payment plan. Customers may select a month-to-month, 36 month, 60 month or 84 month term. The minimum period is one month. Signing a contract for a term allows customers to secure the then current rate for the duration of the contract. (T)
- b. In the event there is an increase in the rate levels during the period between the contract execution date and the service installation date, the customer's contract will be fixed at the rate level in effect on the service execution date if the service is installed within 90 days of the contract execution date.

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)**

## C. General (cont'd)

## 1. Term Payment Plan (cont'd)

- c. Month-to-month rates will be subject to Company initiated rate adjustments.
- d. National ISDN Direct customers on a month-to-month rate plan have no additional service commitments and, consequently, will not be subject to any termination charges upon service termination. (T)

## 2. Terminations

- a. If a customer discontinues the entire National ISDN Direct service within the payment plan currently in effect, the customer will be liable for full payment of service through the end of the current bill period. (T)
- b. Termination charges are not applicable to changes in the physical location of any of the customer's National ISDN Direct services when the move is within the same serving Central Office area.
- c. Service Connection Charges are applicable to changes in the physical location of the customer's service. (T)

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)**

## C. General (cont'd)

## 3. Changes

- a. Customers may change to a new National ISDN Direct contract at any time during the contract period as long as the new contract is equal to or greater in length than the time remaining on the current National ISDN Direct contract being changed. The new contract becomes effective upon execution. (T)
- b. Additions to a customer's National ISDN Direct contract will be billed at the current rates subject to the terms of the National ISDN Direct contract in effect. (T)
- c. Service Ordering charges for National ISDN Direct Service will not apply when customers extend the length of their contract period. (T)
- d. Changes in responsibility for payment of service is permissible. (T)

## 4. Renewals

- a. The renewed contract becomes effective upon execution and the customer will be charged the then current rate for the renewal term.

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)**

## C. General (cont'd)

## 4. Renewals (cont'd)

- b. Upon expiration of a contract term, service may be continued on a month-to-month plan at the rates currently in effect for new customers for month-to-month rates for National ISDN Direct pursuant to the terms and conditions of this PART. The customer has no additional service commitment and, consequently, when service is terminated, will not be subject to any termination charges. Month-to-month rates will be subject to Company initiated rate adjustments. (T)
- c. A record Service Order Charge is applicable for renewals. The monthly contract rates applicable for the new period are those currently in effect for new customers.

## D. Channel Services

## 1. Circuit Switched Service (Voice Capabilities)

- a. Provides the ability to originate and receive circuit switched voice calls, as well as an electronic key set capability over a 64 Kbps "B" channel. Voice calls will be subject to local and toll usage charges based upon the type of service selected by the customer. Local usage charges are specified in Part 4, Section 2 of this tariff. Toll usage charges are specified in Part 9, Section 1 of this tariff.

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)**

## D. Channel Services (cont'd)

## 1. Circuit Switched Service (Voice Capabilities) (cont'd)

## b. The following voice capabilities are standard:

- (1) **Analog Line Appearance**  
Allows analog lines to have a line appearance on the ISDN customer premises equipment with circuit switched voice service. This capability is limited to analog lines that exist in the same switching entity that provides the National ISDN Direct service. This capability may result in the loss of some features and/or functionality on the analog line. (T)
- (2) **Call Hold**  
Allows the customer to place a call on hold at the Central Office, making the channel available for another call (either incoming or outgoing). This can be done through software in the customer's equipment or, often, by depressing a properly programmed button on the customer's telephone equipment.
- (3) **Call Transfer**  
Incoming and outgoing calls may be transferred to other lines. The customer initiating the transfer is responsible for any local or toll charges on transferred calls.
- (4) **Called Number Display**  
The called number is displayed on compatible customer premises equipment when an outgoing call is placed.

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)**

## D. Channel Services (cont'd)

## 1. Circuit Switched Service (Voice Capabilities) (cont'd)

## b. The following voice capabilities are standard: (cont'd)

## (5) Caller ID

The caller's number, if not blocked, is displayed on compatible customer premises equipment when an incoming call is received. The Caller ID feature will forward the calling number from the appropriately equipped originating Central Office to the customer provided display device.

## (6) Conference Calling (Three Way)

Allows a user to hold incoming or outgoing calls, initiate another call, then return to the original call, adding on the last party.

## (7) Denied Origination

Allows call termination, but prevents the origination of a call.

## (8) Denied Termination

Allows call origination, but prevents the termination of a call.

## (9) Hunting

Incoming calls to a busy line appearance are redirected to a predetermined telephone number to search for a line on which to complete the call. This may be another circuit switched voice channel, another ISDN station or an analog line. The types of hunting are limited to Series Completion, Multi-Line and Circular. This feature may impact the use of Shared Call Appearance and Multiple Call Appearance in certain serving Central Offices.

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)



**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)****D. Channel Services (cont'd)****1. Circuit Switched Service (Voice Capabilities) (cont'd)****b. The following voice capabilities are standard: (cont'd)****(10) Multiple Call Appearance**

Provides up to four appearances of the station's primary directory number or secondary telephone number on the same instrument. These appearances may provide additional access from the public network, and/or may originate unique dial tone for additional outgoing access (see Additional Multiple Call Appearance for applications that require more than four call appearances on the same device). This feature may impact the use of Shared Call Appearance in certain Central Offices.

**(11) Shared Call Appearance**

Provides the capability to terminate telephone numbers from one ISDN station to another. These numbers will be configured in a Single Call Arrangement (SCA). SCA allows only one set to be active (either originating or terminating) on the Shared Call Appearance at any given time. Manual Exclusion capabilities are available in this arrangement.

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)**

## D. Channel Services (cont'd)

## 1. Circuit Switched Service (Voice Capabilities) (cont'd)

## c. The following voice capabilities are optional:

## (1) Additional Call Offering

Provides notification to an ISDN user that a call directed to that user is present at the service switch, even though no B Channel can be allocated for the call. Once notified, the user may free up a B Channel (by clearing another call or placing another call on hold) in order to accept the additional call. This feature provides similar functionality as that provided by Call Waiting for the analog telephone user.

## (2) Additional Multiple Call Appearances

Provides additional call appearances, beyond the initial four appearances, of a station's primary directory number or secondary telephone number on the same instrument. These appearances may provide additional access from the public network and/or may originate unique dial tone for additional outgoing access.

## (3) Alternate Answering

Automatically transfers incoming calls that encounter a don't answer condition after a predetermined number of rings to a designated exchange telephone number or Direct Inward Dialing Service (DID) Station Number. The charges and rates for this optional feature are specified in Part 7, Section 3, of this tariff.

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>1/</sup> (cont'd) (T)****D. Channel Services (cont'd)****1. Circuit Switched Service (Voice Capabilities) (cont'd)****c. The following voice capabilities are optional: (cont'd)****(4) Automatic Callback**

Automatically returns the last incoming call whether or not it was answered. If the number is busy, Automatic Callback will continue to redial the number for up to 30 minutes. The charges and rates for this optional feature are specified in Part 7, Section 2, of this tariff.

**(5) Busy Line Transfer**

Automatically transfers incoming calls to an alternate designated exchange telephone number or Direct Inward Dialing Service (DID) Station Number when the called telephone number is busy. Charges and rates for this optional feature are Part 7, Section 3, of this tariff.

**(6) Call Forwarding Variable**

Automatically transfers all incoming calls to another telephone number designated by the customer. Charges and rates for this optional feature are specified in Part 7, Section 1, of this tariff.

1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)**

## D. Channel Services (cont'd)

## 1. Circuit Switched Service (Voice Capabilities) (cont'd)

## c. The following voice capabilities are optional: (cont'd)

## (7) Call Screening

Allows the customer to block incoming calls from up to a maximum of ten telephone numbers. Charges and rates for this optional feature are specified in Part 7, Section 2, of this tariff.

## (8) Intercom Calling

This capability allows a voice user to be able to call another voice user within the electronic key telephone service (EKTS) intercom group without affecting the busy/idle status of any of the directory numbers (DNs) of the calling voice user. Intercom groups can consist of just one other voice user, requiring no intercom address, can consist of two to ten voice users, requiring a one-digit intercom address, or can consist of two to one hundred voice users, requiring a two-digit intercom address. This is a form of abbreviated dialing in that one voice user can dial another by simply hitting the intercom button and then dialing no digits, one or two digits respectively.

## (9) Message Waiting Indicator

Provides the ability to indicate to the ISDN station user that they have a voice or electronic message waiting at their Message Storage and Retrieval (MSR) System. The Message Waiting Indicator may be used to present either a visual or audible signal to the user as determined by the customer's equipment.

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)****D. Channel Services (cont'd)****1. Circuit Switched Service (Voice Capabilities) (cont'd)****c. The following voice capabilities are optional: (cont'd)****(10) Repeat Dialing**

Automatically redials the last outgoing number dialed, whether the call was answered or not. If the called number is busy, the number is automatically redialed for up to 30 minutes. Charges and rates for this optional feature are specified in Part 7, Section 2, of this tariff.

**(11) Secondary Telephone Number**

Provides an additional telephone number and one call appearance which is not physically terminated, but exists in the programming of circuit switched voice. The additional directory number, while not terminated on a dedicated facility, may be accessed from the network, and may originate unique outgoing dial tone from one instrument that has another directory number as its primary directory number.

**(12) Station-Controlled Conference (6 Port)**

Allows a station user to establish a conference call consisting of a maximum of six conferees, including the originator of the call.

**(13) Speed Calling**

Allows calling to other telephone numbers by dialing an abbreviated code rather than the complete telephone number. Available with an 8 or 30 telephone number capacity. Charges and rates for this optional feature are specified in Part 7, Section 1, of this tariff.

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)**

## D. Channel Services (cont'd)

## 2. Circuit Switched Service (Data Capabilities)

- a. Provides the ability to originate and receive circuit switched data calls over the 64 Kbps "B" channel. Data line speeds up to 64 Kbps are permitted. Circuit switched data calls will be subject to Local Message charges or Long Distance Message Telecommunications charges as specified elsewhere in this tariff.

- b. The following data capabilities are standard:

## (1) Caller ID

The caller's number, if not blocked, is displayed on compatible customer premises equipment when an incoming call is received. The Caller ID feature will forward the calling number from the appropriately equipped originating Central Office to the customer provided display device.

## (2) Clear Channel Capability

Clear Channel Capability is provided since all signaling and control functions are handled by the "D" Channel. This allows all 64 Kbps on each "B" Channel to be used for customer information over the National ISDN Direct line. Calls may be either 56 or 64 Kbps depending on the network capabilities in place between the National ISDN Direct line and the distant end of the call.

(T)

(T)

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)**

## D. Channel Services (cont'd)

## 2. Circuit Switched Service (Data Capabilities) (cont'd)

## b. The following data capabilities are standard: (cont'd)

## (3) Denied Origination

Allows call terminations, but prevents the origination of a call.

## (4) Denied Termination

Allows call originations, but prevents the termination of a call.

## (5) Hunt Group for Shared Data Access

Provides for the automatic search of a group of shared ports to find an available port in response to a connection request. The types of hunting are limited to Series Completion, Multi-Line and Circular.

## c. The following data capabilities are optional:

## (1) Additional Call Offering

Provides notification to an ISDN user that a call directed to that user is present at the service switch, even though no B Channel can be allocated for the call. Once notified, the user may free up a B Channel (by clearing another call or placing another call on hold) in order to accept the additional call. This feature provides similar functionality as that provided by Call Waiting for the analog telephone user.

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)**

## D. Channel Services (cont'd)

## 2. Circuit Switched Service (Data Capabilities) (cont'd)

## c. The following data capabilities are optional: (cont'd)

## (2) Alternate Answering

Automatically transfers incoming calls that encounter a don't answer condition after a predetermined number of rings to a designated exchange telephone number or Direct Inward Dialing Service (DID) Station Number. The charges and rates for this optional feature are specified in Part 7, Section 3, of this tariff.

## (3) Busy Line Transfer

Automatically transfers incoming calls to an alternate designated exchange telephone number or Direct Inward Dialing Service (DID) Station Number when the called telephone number is busy. Charges and rates for this optional feature are specified in Part 7, Section 3, of this tariff.

## (4) Call Forwarding Variable

Automatically transfers all incoming calls to another telephone number designated by the customer. Charges and rates for this optional feature are specified in Part 7, Section 1, of this tariff.

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)



**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)**

## D. Channel Services (cont'd)

## 3. Packet Switched Data-B Channel

- a. Provides the exclusive ability to originate and receive X.25 packet switched data calls over the 64 Kbps "B" Channel.
- b. Standard capabilities and features for Packet Switched Network lines using X.25 are included. (T)
- c. Provides up to 128 logical channels and throughput of up to 19.2 Kbps per individual logical channel.
- d. Calls, optional capabilities and features for Packet Switched Network lines using X.25 are available at the charges and rates as specified in Part 6, Section 2. (T)

## 4. On-Demand Packet Switched Data-B Channel

- a. This capability allows a user to request that a connection be established to provide the ability to originate and receive X.25 packet switched data calls over the 64 Kbps "B" Channel.
- b. Standard capabilities and features for Packet Switched Network lines using X.25 access are included. (T)
- c. Provides up to 128 logical channels and throughput of up to 19.2 Kbps per individual logical channel.
- d. Calls, optional capabilities and features for Packet Switched Network lines using X.25 are available at the charges and rates as specified in Part 6, Section 2. (T)

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd) (T)**

## D. Channel Services (cont'd)

## 5. Packet Switched Data-D Channel

- a. Provides the ability to originate and receive X.25 packet switched data calls over the 16 Kbps "D" Channel.
- b. Standard capabilities and features for Packet Switched Network lines using X.25 access are included. (T)
- c. Provides up to 32 logical channels and throughput of up to 9.6 Kbps per individual logical channel.
- d. Calls, optional capabilities and features for Packet Switched Network lines using X.25 are available at the charges and rates as specified in Part 6, Section 2. (T)

## E. Changes And Rates

- 1. National ISDN Direct is only available as a residence service. Charges and rates for the loop, EUCL, usage and optional feature such as Custom Calling services are based on the customer's class of service. (T)
- 2. Service Connection Charges, as specified in Part 3, Section 1, of this tariff, are applicable for the establishment of National ISDN Direct service. (T)

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(T)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>/1/</sup> (cont'd)**

## E. Changes And Rates (cont'd)

## 3. Service Elements and Optional Features

Description /Billing Code/	Nonrecurring Charge	Monthly Price
a. National ISDN Direct, Central Office Termination /P2B/	\$50.00	\$14.00
b. National ISDN Direct Line		13.50(l)
c. Circuit Switched Service Element, Per "B" Channel /LTF1D/	15.00	4.00
(1) Additional Call Offering /NCO/	5.00	2.50
(2) Additional Multiple Call Appearances, Each /ACSPB/	5.00	2.00
(3) Intercom Calling /NZV/	5.00	2.50
(4) Secondary Telephone Numbers, Each /DO6/	5.00	2.00
(5) Station Controlled Conference - 6 Port /EQ6/	15.00	14.00
(6) Message Waiting Indicator, Each /MLN/	5.00	2.50

/1/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted.

(D)  
(D)  
(C)

**2. NATIONAL INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT<sup>2/</sup> (cont'd) (T)**

## E. Changes And Rates (cont'd)

## 3. Service Elements and Optional Features (cont'd)

Description /Billing Code/	Nonrecurring Charge	Monthly Price
d. Packet Switched Data "B" Channel Per "B" Channel /LTQ3X/	\$100.00	\$85.00
e. On-Demand Packet Switched Data "B" Channel Per "B" Channel /LTH7X/	50.00	20.00
f. Packet Switched Data "D" Channel, Per Device /LTQ4X/	15.00	4.00
g. Subsequent change for Circuit Switched and Packet Switched rearrangements to add line appearances, move line or feature appearance, Per Occasion /REA16/		

/1/

/1/ Apply the tariffed Rearrangement Charges for ISDN Direct Service as specified in this section of the tariff. (T)

/2/ Effective August 11, 1997, no new installations and changes to existing National Integrated Services Digital Network (ISDN) Direct will be accepted. (T)

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE**

(T)

Effective July 31, 2005, no further installations, moves, rearrangements, or changes of any type will be made to ISDN Direct B-Channel or D-Channel Packet Services. Customers of record on July 31, 2005 may continue their service as long as such service remains at the location at which it was being furnished on the aforementioned date. In the event that these services are discontinued at their present location for any reason, they will not be reestablished. The preceding supersedes all of the rules and regulations that follow.

/1/

(N)

(N)

**A. DESCRIPTION**

Integrated Services Digital Network (ISDN) Direct Service provides data communications capability for the transmission of Packet Switched Data signals on an incoming and outgoing basis utilizing Integrated Services Digital Network architecture as recommended by the International Telecommunications Union (ITU) and the American National Standards Institute (ANSI), as defined by Telcordia Technical References, and consistent with the North American ISDN Users Forum (NIUF) Implementation Agreements.

/2/(T)

ISDN Direct Service provides the customer with Packet Switched Data services over a single ISDN Direct Service line.

(T)

All ISDN Direct Services require the use of an ISDN Line (2B+D). The two 64 Kbps "B" channels are used to transmit high speed Packet Switched Data Services. The "D" channel is used to carry user-originated Packet Switched Data at speeds up to 9.6 Kbps.

(T)

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(T)

/2/

/1/ Material now appears on Original Sheet 70 in this Section.

/2/ Material formerly appeared on 2nd Revised Sheet 1, in Part 17, Section 1 of this Tariff.

3. **INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)** (T)  
/1/

<b>A. DESCRIPTION (cont'd)</b>
--------------------------------

**On-Demand Packed Switched Data - "B" Channel**

This capability allows a user to request that a connection be established to provide the ability to originate and receive X.25 Packet Switched Data calls over the 64 Kbps "B" channel. /2/

Standard capabilities and features for Packet Switched Service lines using X.25 access are included.

Provides up to 127 logical channels and throughput of up to 19.2 Kbps per individual logical channel.

Calls, optional capabilities and features for Packet Switched Service lines using X.25 are available at applicable charges. (See Other Applicable Charges and Payments.)

**Packet Switched Data - "B" Channel**

Provides the ability to originate and receive X.25 Packet Switched Data calls over the 64 Kbps "B" channel.

Standard capabilities and features for Packet Switched Service lines using X.25 are included.

Provides up to 127 logical channels and throughput of up to 19.2 Kbps per individual logical channel.

Calls, optional capabilities and features for Packet Switched Service lines using X.25 are available at applicable charges. (See Other Applicable Charges and Payments.)

/2/

/1/ Material now appears on Original Sheet 72 in this Section.

/2/ Material formerly appeared on 2nd Revised Sheet 2, in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

/1/

**A. DESCRIPTION (cont'd)**

/2/

**Packet Switched Data - "D" Channel**

Provides the ability to originate and receive X.25 Packet Switched Data calls over the 16 Kbps "D" channel.

Standard capabilities and features for Packet Switched Service lines using X.25 access are included.

A single "D" channel packet device is allowed up to 15 logical channels and provides a throughput of up to 9.6 Kbps per individual logical channel.

Calls, optional capabilities and features for Packet Switched Service lines using X.25 are available at applicable charges. (See Other Applicable Charges and Payments.)

/2/

**B. Definitions****"D" Channel**

A 16 Kbps portion of an ISDN Direct Service line used for Packet Switched Data.

/3/

/3/

/1/ Material now appears on Original Sheet 83 in this Section.

/2/ Material formerly appeared on 3rd Revised Sheet 3 in Part 17, Section 1 of this Tariff.

/3/ Material formerly appeared on 3rd Revised Sheet 4 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

/1/

**C. TERMS AND CONDITIONS**

/2/

1. Where available, a maximum of eight devices or terminals may be connected directly to an ISDN Direct Service line.
2. An ISDN CO Termination is required for each ISDN Direct line. This enables the subscriber to configure Packet Switched Data services on the 2B+D ISDN Direct line.

(T)

/2/(T)

**D. FEATURES**

**1. ISDN Ordering Codes (IOCs)**

/3/

The following tables describe each ISDN Ordering Code, channel configurations and available features:

Code	Description	Features
A	Basic D-Channel Packet with up to 15 two-way logical channels (user specified)	Voice and Circuit Data Features None Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel
D	Voice on one B channel and basic D channel Packet	Voice and Circuit Data Features None Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel

/3/

/1/ Material now appears on Original Sheet 84 in this Section.

/2/ Material formerly appeared on 2nd Revised Sheet 5 in Part 17, Section 1 of this Tariff.

/3/ Material formerly appeared on 1st Revised Sheet 7 in Part 17, Section 1 of this Tariff.



**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

/1/

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
E <sup>/2/</sup>	Voice on one B channel and basic D channel Packet	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	/3/
G <sup>/2/</sup>	Voice on one B channel and Circuit Switched Data on the other B channel	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	/3/

/1/ Material now appears on Original Sheet No. 85 in this Section.

/2/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/3/ Material formerly appeared on 2nd Revised Sheet 8 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code N <sup>/1/</sup>	Description	Features	
	Alternate Voice/Circuit Switched Data on one B channel and Circuit Switched Data on the other B channel, and basic D channel Packet	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 2nd Revised Sheet 9 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
P	Alternate Voice/Circuit Switched Data on two B channels and basic D channel Packet	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	/1/
T <sup>/2/</sup>	Voice capabilities on two B channels and basic D channel Packet	Voice and Circuit Data Features None Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	/1/
A1 <sup>/2/</sup>	Basic D channel Packet	Voice and Circuit Data Features None Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	/3/

/1/ Material formerly appeared on 3rd Revised Sheet 10 in Part 17, Section 1 of this Tariff.  
 /2/ Effective August 31, 1998, no new installations and changes to existing will be accepted.  
 /3/ Material formerly appeared on 2nd Revised Sheet 11 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
B1 <sup>/1/</sup> B2 <sup>/1/</sup> B3 <sup>/1/</sup>	Circuit Switched Data on one B channel	Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/
C1 <sup>/1/</sup> C2 <sup>/1/</sup> C3 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on one B channel	Voice and Circuit Data Features Calling Number Identification Redirecting Number Delivery	
D1 <sup>/1/</sup> D2 <sup>/1/</sup>	Voice capabilities on one B channel and basic D channel Packet	Voice Features Call Forwarding Variable Call Forwarding Busy Line Call Forwarding Don't Answer Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	
D3 <sup>/1/</sup>	Voice on one B channel and basic D channel Packet. A maximum of 4 logical two-way channels can be selected by user	Voice and Circuit Data Features None Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	
D4 <sup>/1/</sup>	Voice on one B channel and basic D channel Packet.	Voice and Circuit Data Features None Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 2nd Revised Sheet 12 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features
E1 <sup>/1/</sup> E2 <sup>/1/</sup>	Voice capabilities on one B channel and basic D channel Packet	Voice Features Additional Call Offering Automatic Callback Automatic Recall Call Forwarding Busy Line Call Forwarding Don't Answer Call Forwarding Variable Call Hold Calling Number Identification Flexible Calling Message Service Redirecting Number Delivery Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel
E3 <sup>/1/</sup>	Voice on one B channel and basic D channel Packet	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel

/2/

/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 2nd Revised Sheet 13 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
F1 <sup>/1/</sup> F2 <sup>/1/</sup>	Voice capabilities on one B channel and basic D channel Packet	Voice Features Automatic Callback Automatic Recall Call Appearance Call Handling Call Forwarding Busy Line Call Forwarding Don't Answer Call Forwarding Variable Call Hold Calling Number Identification Flexible Calling Message Service Redirecting Number Delivery Secondary Telephone Number Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	/2/
F3 <sup>/1/</sup>	Voice on one B channel and basic D channel Packet	Voice Features Call Appearance Call Handling Call Hold Calling Number Identification Flexible Calling Intercom Calling Redirecting Number Delivery Secondary Telephone Number Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 2nd Revised Sheet 14 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
G1 <sup>/1/</sup>	Voice capabilities on one B channel and Circuit Switched Data capabilities on the other B channel	Voice Features Call Hold Circuit Data Features None	/2/
G2 <sup>/1/</sup>	Voice capabilities on one B channel and Circuit Switched Data capabilities on the other B channel	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	
G3 <sup>/1/</sup> G4 <sup>/1/</sup>	Voice capabilities on one B channel and Circuit Switched Data capabilities on the other B channel	Voice and Circuit Data Features Additional Call Offering Call Appearance Call Handling Call Forwarding Busy Line Call Forwarding Don't Answer Call Forwarding Variable Call Hold Calling Number Identification Flexible Calling Message Service Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 2nd Revised Sheet 15 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
G5 <sup>/1/</sup>	Voice capabilities on one B channel and Circuit Switched Data capabilities on the other B channel	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/
H1 <sup>/1/</sup> H2 <sup>/1/</sup>	Voice capabilities on one B channel and Circuit Switched Data capabilities on the other B channel	Voice Features Automatic Recall Automatic Callback Call Appearance Call Handling Call Forwarding Busy Line Call Forwarding Don't Answer Call Forwarding Variable Call Hold Calling Number Identification Flexible Calling Message Service Redirecting Number Delivery Secondary Telephone Number Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 2nd Revised Sheet 16 in Part 17, Section 1 of this Tariff.



**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
H6 <sup>/1/</sup>	Voice capabilities on one B channel and Circuit Switched Data capabilities on the other B channel	Voice Features Call Appearance Call Handling Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Secondary Telephone Number Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/
I1 <sup>/1/</sup> I2 <sup>/1/</sup> I3 <sup>/1/</sup>	Circuit Switched Data on two B channels	Circuit Data Features Calling Number Identification Redirecting Number Delivery	
I4 <sup>/1/</sup>	Circuit Switched Data on two B channels and D channel Packet capabilities	Circuit Data Features Calling Number Identification Redirecting Number Delivery Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	
J1 <sup>/1/</sup> J2 <sup>/1/</sup> J3 <sup>/1/</sup> J4 <sup>/1/</sup> J5 <sup>/1/</sup> J6 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on one B channel and Circuit Switched Data on other B channel	Voice and Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 3rd Revised Sheet 17 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
K1 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on one B channel and Circuit Switched Data on other B channel	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/
K2 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on two B channels	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	
K3 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on one B channel and Circuit Switched Data on the other B channel	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 2nd Revised Sheet 18 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
M1 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on two B channels	Voice and Circuit Data Features	/2/
M2 <sup>/1/</sup>		Calling Number Identification	
M4 <sup>/1/</sup>		Redirecting Number Delivery	
M5 <sup>/1/</sup>			
M3 <sup>/1/</sup>			
M6 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on two B channels	Voice and Circuit Data Features Calling Number Identification Redirecting Number Delivery	
N1 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on one B channel and Circuit Switched Data on the other B channel, and basic D channel Packet	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 3rd Revised Sheet 19 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
O1 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on one B channel and Circuit Switched Data on the other B channel, and basic D channel Packet	Voice Features Call Appearance Call Handling Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Secondary Telephone Number Circuit Data Features Calling Number Identification Redirecting Number Delivery Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	/2/
R1 <sup>/1/</sup>	Circuit Switched Data on two B channels	Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 2nd Revised Sheet No.20 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
S2 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on two B channels	Voice Features Basic EKTS Busy Line Transfer Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Secondary Telephone Number Shared Call Appearance Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/
T1 <sup>/1/</sup>	Voice capabilities on two B channels, plus basic D channel Packet	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Packet Data Features Fast Select Fast Select Acceptance Reverse Charge 2-Way Logical Channel	/2/

**E. Vacant**

(T)

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 2nd Revised Sheet 21 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE**

/1/(T)

Effective June 21, 2002, 84-Month Term Payment Plans will no longer be available for ISDN Direct Service. Current ISDN BRI 84-month customers may continue to retain their existing service as is at their current address until the 84-month contract term expires. Any customer requested changes to the existing Service will require the customer to select a new contract term payment plan or the month-to-month option at the then current tariff rates. The Company will not impose termination liability to those customers required to make a contract term change.

(T)

Upon completion of the 84-month TPP term, customers may continue receiving the Service at the then-current rates under any available payment plan. If the customer does not select a new payment plan and does not request discontinuance of the Service, the month-to-month tariff rates in effect at such time will automatically apply.

The preceding supersedes all of the rules and regulations that follow:

**F. PRICES**

**1. Service Elements**

(T)

(T)

Description /Billing Code/	Nonrecurring Charge	Monthly	Monthly Payment Term Payment Plans			
			36 Months	60 Months	84 Months	
Circuit Switched Capability, per "B" Channel /BSB1D/						\$ 3.25
Packet Switched Data "B" Channel, per "B" channel /BSB3X/	\$100.00 <sup>/2/</sup>	\$85.00 <sup>/2/</sup>	\$80.00 <sup>/2/</sup>	\$75.00 <sup>/2/</sup>	70.00	
Packet Switched Data "D" Channel, per device /LTQ4X/						
On-Demand Packet Switched Data "B" Channel, per "B" channel /BSB7X/	15.00 <sup>/2/</sup>	6.50 <sup>/2/</sup>	6.30 <sup>/2/</sup>	6.10 <sup>/2/</sup>	5.90	/1/ /3/
	50.00	20.00				/3/

/1/ Material formerly appeared on Original Sheet 53 in this Section.

/2/ Material formerly appeared on 4th Revised Sheet 32 in Part 17, Section 1 of this Tariff.

/3/ Material formerly appeared on 1st Revised Sheet 33 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**F. PRICES**

**1. Service Elements (cont'd)**

Description /Billing Code/	Non- recurring Charge	Monthly	Monthly Payment Term Payment Plans		
			36 Months	60 Months	
Subsequent charges for Packet Switched rearrangements to add, change or move line appearances or feature appearances, per line, per occasion /REA16/	\$15.00				/1/

**2. Other Applicable Charges and Payments**

Service ordering and line connection charges are also applicable for the establishment of ISDN Direct service.  
References:

Service	Reference	
Packet Switched Service	SBC Tariff Part 20, Section 6	/2/ (T)

/1/ Material formerly appeared on 3rd Revised Sheet 35 in Part 17, Section 1 of this Tariff.

/2/ Material formerly appeared on Original Sheet 36 in Part 17, Section 1 of this Tariff.

**3. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (cont'd)**

**F. PRICES**

**3. *Payment Plans***

/1/

- **Term Payment Plans**

Customers may elect to subscribe to ISDN Direct Service for an extended period under a Term Payment Plan (TPP) option which allows the customer to select an 84-month payment plan. During the length of the selected TPP, monthly prices for service ordered under the plan will automatically change (increase or decrease) as Company initiated price changes becomes effective. However, under no circumstances will any price change cause the monthly price for the service to exceed the price that was in effect at the beginning of the selected TPP term.

(T)

/1/

/1/ Material formerly appeared on Original Sheet 54 in this Section.



**4. ISDN RESIDENTIAL SERVICE**

Effective November 1, 2012, no further installations, moves, rearrangements, or changes of any type will be made to ISDN Residential Service. Customers of record on November 1, 2012 may continue their service as long as such service remains at the location at which it was being furnished on the aforementioned date. In the event that these services are discontinued at their present location for any reason, they will not be reestablished. The preceding supersedes all of the rules and regulations that follow. (N)

**A. DESCRIPTION**

Integrated Services Digital Network (ISDN) Residential Service is a telecommunications service that provides an integrated voice/data communications capability for the transmission of Circuit Switched Voice and data signals on an incoming and outgoing basis utilizing Integrated Services Digital Network architecture as recommended by the International Telecommunications Union (ITU) and the American National Standards Institute (ANSI), as defined by Telcordia Technical References, and consistent with the North American ISDN Users Forum (NIUF) Implementation Agreements. /1/

ISDN Residential Service provides the customer with the ability to combine Circuit Switched Voice, and Circuit Switched Data services over a single ISDN Residential Service Line.

All ISDN Residential services require the use of an ISDN Line (2B+D). The two 64 Kbps "B" channels are used to transmit any combination of Circuit Switched Voice and/or Circuit Switched Data. The "D" channel is used to carry signaling only.

**Circuit Switched Capability (Alternate Voice/Circuit Switched Data)**

Where technology permits, this capability provides the ability to originate and receive either Circuit Switched Voice or Circuit Switched Data calls over a single "B" channel, but not simultaneously. Circuit Switched Voice and Data calls are subject to additional charges. (See Other Applicable Charges and Payments.)

**Circuit Switched Capability (Data)**

Provides the ability to originate and receive Circuit Switched Data calls over the 64 Kbps "B" channel. Data line speeds up to 64 Kbps are permitted. Circuit Switched Data calls are subject to additional charges. (See Other Applicable Charges and Payments.) /1/

**Circuit Switched Capability (Voice)**

Provides the ability to originate and receive Circuit Switched Voice calls, as well as electronic key set capability, over the 64 Kbps "B" channel. Circuit Switched Voice calls are subject to additional charges. (See Other Applicable Charges and Payments.) /2/

/3/

/1/ Material formerly appeared on Original Sheet 29 in Part 17, Section 1 of this Guidebook.

/2/ Material formerly appeared on Original Sheet 30 in Part 17, Section 1 of this Guidebook.

/3/ Material now appears on Original Sheet 73.3 in this Section.

**4. ISDN RESIDENTIAL SERVICE (Cont'd)****B. DEFINITIONS**

/1/

**"B" Channel**

A 64 Kbps portion of an ISDN Residential Service Line used for information transfer (voice/data) from user to user.

**"D" Channel**

A 16 Kbps portion of an ISDN Residential Service Line used for out of band signaling and control of the "B" channels.

**ISDN Line**

The physical connection between and including the customer Network Interface and the ISDN Direct CO Termination.

**ISDN CO Termination**

Terminates the ISDN Line in the serving central office.

**ISDN Ordering Codes (IOC)**

Refers to a very specific combination of National ISDN services and features. Each IOC includes information about the Features, number of Directory Numbers (DNs), DN appearances, number of Call Appearances, number of Terminal Endpoint Identifiers (TEIs) and number of Service Profile Identifiers (SPIDs).

/1/

**C. TERMS AND CONDITIONS**

/2/

1. Each device with circuit switched services will have a unique identifier, known as a Service Profile Identifier (SPID), and a unique primary directory number. For customer premises terminal equipment employing multiple SPIDs, each assigned SPID counts as a device.
2. Unique sets of standard and optional features and capabilities are specified for each IOC. The availability and functions of the features may vary by serving central office.
3. ISDN Residential Service is available as a residence service.
4. The service is available from specially equipped digital switching equipment located in the Company's central offices and will be provided where facilities permit and where capacity is available.
5. Residential ISDN customer premises equipment must be Class B compliant as set forth by the Code of Federal Regulations 47 CFR Part 15, Subpart A, Section 15.3 Paragraph I.
6. An ISDN Line and an ISDN CO Termination are required for each IOC ordered.
7. This service only supports National compliant customer premises equipment.
8. ISDN services, features and functionality are only available via defined ISDN Ordering Codes (IOCs) with this service.
9. Charges for features associated with an IOC may not be applicable, based on the technology of the serving central office.
10. A minimum service period of one (1) month is required for each ISDN Line.

/2/

/1/ Material formerly appeared on Original Sheet 31 in Part 17, Section 1 of this Guidebook.

/2/ Material formerly appeared on Original Sheet 32 in Part 17, Section 1 of this Guidebook.



**4. ISDN RESIDENTIAL SERVICE (Cont'd)****D. FEATURES (Cont'd)**

## 1. ISDN Ordering Codes (IOCs) (Cont'd)

Code	Description	Features	
R	Circuit Switched Data on two B channels	Circuit Data Features Calling Number Identification Redirecting Number Delivery	/1/
S	Alternate Voice/Circuit Switched Data on two B channels	Voice and Circuit Data Features Calling Number Identification Redirecting Number Delivery	/1/
U (EZ ISDN1)	Alternate Voice/Circuit Switched Data on two B channels	Voice Features Additional Call Offering Call Hold Call Forwarding Variable Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/
V (EZ ISDN1A)	Alternate Voice/Circuit Switched Data on two B channels	Voice Features Additional Call Offering Advanced Call Forwarding Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/
B1 <sup>/3/</sup> B2 <sup>/3/</sup> B3 <sup>/3/</sup>	Circuit Switched Data on one B channel	Circuit Data Features Calling Number Identification Redirecting Number Delivery	/4/
C1 <sup>/3/</sup> C2 <sup>/3/</sup> C3 <sup>/3/</sup>	Alternate Voice/Circuit Switched Data on one B channel	Voice and Circuit Data Features Calling Number Identification Redirecting Number Delivery	/4/

/1/ Material formerly appeared on Original Sheet 36 in Part 17, Section 1 of this Guidebook.

/2/ Material formerly appeared on Original Sheet 37 in Part 17, Section 1 of this Guidebook.

/3/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/4/ Material formerly appeared on Original Sheet 73 in this Section.

**4. ISDN RESIDENTIAL SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
G1 <sup>/1/</sup>	Voice capabilities on one B channel and Circuit Switched Data capabilities on the other B channel	Voice Features Call Hold Circuit Data Features None	/2/
G2 <sup>/1/</sup>	Voice capabilities on one B channel and Circuit Switched Data capabilities on the other B channel	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	
G3 <sup>/1/</sup> G4 <sup>/1/</sup>	Voice capabilities on one B channel and Circuit Switched Data capabilities on the other B channel	Voice and Circuit Data Features Additional Call Offering Call Appearance Call Handling Call Forwarding Busy Line Call Forwarding Don't Answer Call Forwarding Variable Call Hold Calling Number Identification Flexible Calling Message Service Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 1st Revised Sheet 51 in Part 17, Section 1 of this Tariff.

**4. ISDN RESIDENTIAL SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
G5 <sup>/1/</sup>	Voice capabilities on one B channel and Circuit Switched Data capabilities on the other B channel	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/
H1 <sup>/1/</sup> H2 <sup>/1/</sup>	Voice capabilities on one B channel and Circuit Switched Data capabilities on the other B channel	Voice Features Automatic Recall Automatic Callback Call Appearance Call Handling Call Forwarding Busy Line Call Forwarding Don't Answer Call Forwarding Variable Call Hold Calling Number Identification Flexible Calling Message Service Redirecting Number Delivery Secondary Telephone Number Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 1st Revised Sheet 52 in Part 17, Section 1 of this Tariff.

**4. ISDN RESIDENTIAL SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	/2/
H6 <sup>/1/</sup>	Voice capabilities on one B channel and Circuit Switched Data capabilities on the other B channel	Voice Features Call Appearance Call Handling Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Secondary Telephone Number Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/
I1 <sup>/1/</sup> I2 <sup>/1/</sup> I3 <sup>/1/</sup>	Circuit Switched Data on two B channels	Circuit Data Features Calling Number Identification Redirecting Number Delivery	
J1 <sup>/1/</sup> J2 <sup>/1/</sup> J3 <sup>/1/</sup> J4 <sup>/1/</sup> J5 <sup>/1/</sup> J6 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on one B channel and Circuit Switched Data on other B channel	Voice and Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 1st Revised Sheet 53 in Part 17, Section 1 of this Tariff.

**4. ISDN RESIDENTIAL SERVICE (cont'd)**

**D. FEATURES (cont'd)**

**1. ISDN Ordering Codes (IOCs) (cont'd)**

Code	Description	Features	
K1 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on one B channel and Circuit Switched Data on other B channel	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/
K2 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on two channels	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	
K3 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on one B channel and Circuit Switched Data on the other B channel	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery	/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on 1st Revised Sheet 54 in Part 17, Section 1 of this Tariff.



**4. ISDN RESIDENTIAL SERVICE (cont'd)**

**D. FEATURES (cont'd)**

1. ISDN Ordering Codes (IOCs) (cont'd)

Code	Description	Features
M1 <sup>/1/</sup> M2 <sup>/1/</sup> M4 <sup>/1/</sup> M5 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on two B channels	Voice and Circuit Data Features Calling Number Identification Redirecting Number Delivery
M3 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on two B channels	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery
M6 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on two B channels	Voice and Circuit Data Features Calling Number Identification Redirecting Number Delivery
R1 <sup>/1/</sup>	Circuit switched data on two B channels	Circuit Data Features Calling Number Identification Redirecting Number Delivery
S1	Alternate Voice/Circuit Switched Data on two B channels	Voice Features Additional Call Offering Call Hold Calling Number Identification Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery

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/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.  
/2/ Material formerly appeared on Original Sheet 38 in Part 17, Section 1 of this Guidebook.

**4. ISDN RESIDENTIAL SERVICE (cont'd)**

**D. FEATURES (cont'd)**

1. ISDN Ordering Codes (IOCs) (cont'd)

Code	Description	Features
S2 <sup>/1/</sup>	Alternate Voice/Circuit Switched Data on two B channels	Voice Features Basic EKTS Busy Line Transfer Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Secondary Telephone Number Shared Call Appearance Circuit Data Features Calling Number Identification Redirecting Number Delivery

2. Features and Capabilities

**Additional Call Offering**

Provides notification to an ISDN user that a call directed to that user is present at the service switch, even though no "B" channel can be allocated for the call. Once notified, the user may free up a "B" channel (by clearing another call or placing another call on hold) in order to accept the additional call. This feature provides similar functionality as that provided by Call Waiting for the analog telephone user.

**Advanced Call Forwarding**

Provides for the assignment of the following features:

- Call Forwarding Variable (See Custom Calling Features.)
- Call Forwarding Don't Answer (See Complementary Network Services.)
- Call Forwarding Busy Line (See Complementary Network Services.)
- Message Waiting Indicator

**Advanced Custom Calling Features<sup>/1/</sup>**

(See Other Applicable Charges and Payments.)

- Automatic Callback
- Repeat Dialing (Automatic Recall)

/2/

/2/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on Original Sheet 39 in Part 17, Section 1 of this Guidebook.

**4. ISDN RESIDENTIAL SERVICE (cont'd)**

**D. FEATURES (cont'd)**

2. Features and Capabilities (cont'd)

**Automatic Recall**<sup>/1/</sup>

(See Advanced Custom Calling Features.)

**Basic Electronic Key Telephone Service (EKTS)**<sup>/1/</sup>

Basic EKTS supports multiple directory numbers (DNs) and the sharing of DN's between other EKTS users or terminals, in an EKTS group. Basic EKTS allows only one call appearance for a DN, so only one call may be associated with a given DN.

Basic EKTS and CACH EKTS terminals may be members of the same EKTS group; however, a DN which is shared across Basic EKTS and CACH EKTS terminals may only be assigned one call appearance. EKTS is only used to manage voice calls. An EKTS primary DN can be an alternate voice/data DN.

**Call Appearance Call Handling (CACH)**<sup>/1/</sup>

Call Appearance Call Handling (CACH) supports multiple directory numbers (DNs), multiple call appearances of each DN, and the sharing of one or more call appearances of one or more DN's with other users or terminals, within the same EKTS group. The quantity of calls which may be associated with a given DN is the number of call appearances assigned to the DN. Up to four call appearances may be assigned as standard provisioning.

Basic EKTS and CACH EKTS terminals may be members of the same EKTS group; however, a DN which is shared across Basic EKTS and CACH EKTS terminals may only be assigned one call appearance. EKTS is only used to manage voice calls. An EKTS primary DN can be an alternate voice/data DN.

**Call Hold**

Allows the customer to place a call on hold at the central office, making the channel available for another call (either incoming or outgoing). This can be done through software in the customer's equipment or, often, by depressing a properly programmed button on the customer's telephone equipment.

/2/

**Call Transfer**

(See Flexible Calling.)

/2/

**Called Number Display**

Displays the called number on compatible customer premises equipment when an outgoing call is placed.

/3/

**Caller ID**

(See Calling Number Identification.)

**Calling Number Identification**

Displays the caller's number, if not blocked, on compatible customer premises equipment when an incoming call is received. This feature will forward the calling number from the appropriately equipped originating central office to the customer-provided display device.

/3/

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

/2/ Material formerly appeared on Original Sheet 40 in Part 17, Section 1 of this Guidebook.

/3/ Material formerly appeared on Original Sheet 41 in Part 17, Section 1 of this Guidebook.

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**4. ISDN RESIDENTIAL SERVICE (cont'd)**

**D. FEATURES (cont'd)**

2. Features and Capabilities (cont'd)

**Clear Channel Capability**

Allows all 64 Kbps on each "B" channel to be used for customer information, since all signaling and control functions are handled by the "D" channel, over the ISDN Residential Line. Calls may be either 56 or 64 Kbps depending on the network capabilities in place between the ISDN Residential Line and the distant end of the call.

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**Complementary Network Services**

(See Other Applicable Charges and Payments.)

- Alternate Answering (Call Forwarding Don't Answ
- Busy Line Transfer (Call Forwarding Busy Line)

/2/

**Conference Calling - 3 Way**

(See Flexible Calling.)

**Custom Calling Features**

(See Other Applicable Charges and Payments.)

- Call Forwarding Busy Line (See Complementary Network Services.)
- Call Forwarding Don't Answer (See Complementary Network Services.)
- Call Forwarding Variable

/2/

**Flexible Calling**

Flexible Calling is a set of capabilities that allows an ISDN user to establish and control two concurrent calls using a single "B" channel.

- Conference allows a user to hold incoming or outgoing calls, initiate another call, then return to the original call, adding on the last party.
- Transfer allows incoming and outgoing calls to be transferred to other lines. The customer initiating the transfer is responsible for any local or toll charges on transferred calls.
- Drop allows the user to drop the last party added to a conference call.

/3/

/3/

**Intercom Calling<sup>A/</sup>**

Allows a voice user to be able to call another voice user within the electronic key telephone service (EKTS) intercom group without affecting the busy/idle status of any of the directory numbers (DNs) of the calling voice user. Intercom groups can consist of just one other voice user, requiring no intercom address, can consist of two to ten voice users, requiring a one-digit intercom address, or can consist of two to one hundred voice users, requiring a two-digit intercom address. This is a form of abbreviated dialing in that, one voice user can dial another by simply hitting the intercom button and then dialing no digits, one or two digits respectively.

(C)

**Message Service**

(See Message Waiting Indicator.)

/3/

**Message Waiting Indicator**

Provides the ability to indicate to the ISDN station user that they have a voice or electronic message waiting at their Message Storage and Retrieval (MSR) System. The Message Waiting Indicator may be used to present either a visual or audible signal, for the specified IOC or CPE, to the user as determined by the customer's equipment and central office capability.

/3/

/5/

/1/ Material formerly appeared on Original Sheet 41 in Part 17, Section 1 of this Guidebook.

(C)

/2/ Material formerly appeared on Original Sheet 42 in Part 17, Section 1 of this Guidebook.

/3/ Material formerly appeared on Original Sheet 43 in Part 17, Section 1 of this Guidebook.

/4/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

(C)

/5/ Material now appears on Original Sheet 81.1 in this Section.

**4. ISDN RESIDENTIAL SERVICE (cont'd)**

**D. FEATURES (cont'd)**

2. Features and Capabilities (cont'd)

**Redirecting Number Delivery**

For incoming calls forwarded to an ISDN user, Redirecting Number Delivery delivers to the ISDN user's compatible customer premises equipment the directory number (if not blocked), associated with the forwarding party and the reason why the call was forwarded.

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**Secondary Telephone Number<sup>/2/</sup>**

Provides an additional telephone number and one call appearance which is not physically terminated, but exists in the programming of circuit switched voice. The additional directory number, while not terminated on a dedicated facility, may be accessed from the network, and may originate unique outgoing dial tone from one instrument that has another directory number as its primary directory number.

/3/

**Shared Call Appearance<sup>/2/</sup>**

Provides the capability for a directory number appearance to be shared by two or more ISDN stations. A user may bridge onto an active call on the shared appearance. For call privacy, manual bridge exclusion capabilities are available to prevent other stations from bridging on to selected calls.

/3/

**E. TECHNICAL REFERENCES**

/4/

All customer premises equipment used to interface with ISDN Direct Service is required to conform with the Technical Reference Specifications used by the Company.

Subject

Technical Reference

Ameritech ISDN Interface Specification

AM-TR-NIS-000068

The Technical Reference can be obtained from:

APEX Support Team  
(734) 523-7348

/4/

/1/ Material formerly appeared on Original Sheet 44 in Part 17, Section 1 of this Guidebook.  
/2/ Effective August 31, 1998, no new installations and changes to existing will be accepted.  
/3/ Material formerly appeared on Original Sheet 81 in this Section.  
/4/ Material formerly appeared on Original Sheet 45 in Part 17, Section 1 of this Guidebook.

**4. ISDN RESIDENTIAL SERVICE (Cont'd)****F. PRICES**

/1/

The prices shown for ISDN Residential Service are exclusive of local and toll charges and associated customer premises equipment.

Charges for other services or features normally applied on a per line basis apply on a per telephone number basis for this service.

ISDN Residential Service Lines are also subject to End User Common Line (EUCL) charges. (See Other Applicable Charges and Payments.) The customer shall be liable for all adjustments to the EUCL charge per ISDN Residential Service Line, per month, as authorized or mandated by the Federal Communications Commission (or by any regulatory body or commission or court of competent jurisdiction).

Charges for the loop, EUCL, usage and optional features are based upon the customer's class of service.

Charges for usage and optional features will be applied on a per channel service capability basis.

When the customer's premises and the central office providing ISDN Residential Service are located in different Service Areas, Base Rate charges will apply. (See Other Applicable Charges and Payments.) Customers provided this service arrangement will require three Interexchange Mileage component charges and six Channel Mileage Termination charges for each ISDN Residential Service Line they purchase.

In cases where the customer's premises are in Independent Telephone Company (ITC) serving areas, the Company will assess Base Rate Interexchange Mileage charges only to the point of meet with the ITC or intermediate ITC. Charges for ITC services will be assessed by the ITC.

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/2/

/1/ Material formerly appeared on Original Sheet 46 in Part 17, Section 1 of this Guidebook.

/2/ Material now appears on Original Sheet 82.1 in this Section.

**4. ISDN RESIDENTIAL SERVICE (cont'd)****F. PRICES (cont'd)**

## 1. Service Elements

Description /Billing Code/	Nonrecurring Charge	Monthly Price
ISDN CO Termination /P2B/	\$50.00	\$16.00
ISDN Line /P2L/		22.00(l)
Circuit Switched Capability, per "B" Channel /BSB1D/	15.00	4.00
Additional Call Offering, each /NCO/	5.00	3.00
Advanced Custom Calling Features <sup>/1/</sup> Automatic Callback Repeat Dialing (See Other Applicable Charges and Payments.)		
Complementary Network Services Alternate Answering Busy Line Transfer (See Other Applicable Charges and Payments.)		
Custom Calling Features Call Forwarding Variable (See Other Applicable Charges and Payments.)		
Intercom Calling /NZV <sup>/1/</sup>	5.00	2.50
Message Waiting Indicator, each /MLN/	5.00	2.50
Secondary Telephone Number, each /DO6 <sup>/1/</sup>	5.00	2.00

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.

**4. ISDN RESIDENTIAL SERVICE (cont'd)****F. PRICES (cont'd)**

## 2. Other Applicable Charges and Payments

## References:

Service	Reference
Advanced Custom Calling Features <sup>/1/</sup>	AT&T Guidebook, Part 7, Section 2
Base Rate Service	AT&T Guidebook Part 15, Section 3
Complementary Network Services	AT&T Guidebook Part 7, Section 3
Custom Calling Features	AT&T Guidebook Part 7, Section 1
End User Common Line (EUCL)	Ameritech Operating Companies Tariff F.C.C. No. 2, Section 4
Service ordering and line connection	AT&T Guidebook Part 3, Section 1
Usage Message	AT&T Guidebook Part 4, Section 2

(D)  
(D)

/1/ Effective August 31, 1998, no new installations and changes to existing will be accepted.



**5. ISDN PRIME SERVICE**

/1/(T)

Effective June 21, 2002, 84-Month Term Payment Plans will no longer be available for ISDN Prime Service. Current ISDN PRI 84-month customers may continue to retain their existing service as is at their current address until the 84-month contract term expires. Any customer requested changes to the existing Service will require the customer to select a new contract term payment plan or the month-to-month option at the then current tariff rates. The Company will no impose termination liability to those customers required to make a contract term change.

Upon completion of the 84-month TPP term, customers may continue receiving the Service at the then-current rates under any available payment plan. If the customer does not select a new payment plan and does not request discontinuance of the Service, the month-to-month tariff rates in effect at such time will automatically apply.

(T)

The preceding supersedes all of the rules and regulations that follow:

<b>F. PRICES (cont'd)</b>
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**1. Service Elements (cont'd)**

Description /Billing Code/	Monthly Payment Term Payment Plans	84 Months
ISDN Prime (Custom) - each /ZPAZD/		\$420.00
ISDN Prime (National) - each /ZPQZD/		420.00
Backup "D" Channel - each /ZPBXD/		105.00
Call By Call for FX - per trunk group /C2Q/		15.00
Call By Call for Tie Lines - per trunk group /C3Q/		15.00

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/1/ Material formerly appeared on Original Sheet 55 in this Section.

**5. ISDN PRIME SERVICE (cont'd)**

/1/(T)

**F. PRICES (cont'd)**

**1. Service Elements (cont'd)**

Description /Billing Code/	Monthly Payment Term Payment Plans	84 Months	
Network Ring Again - per trunk group /ZRA/		\$45.00	(D) (D) (T)
Network Name Display, - per trunk group /ZNN/		45.00	/1/

/1/ Material formerly appeared on Original Sheet 56 in this Section.

5. ISDN PRIME SERVICE (cont'd)

/1/(T)

**F. PRICES (cont'd)**

3. *Payment Plans*

- **Term Payment Plans**

Customers may elect to subscribe to ISDN Prime Service for an extended period under a Term Payment Plan (TPP) option which allows the customer to select an 84-month payment plan. During the length of the selected TPP, monthly prices for service ordered under the plan will automatically change (increase or decrease) as Company initiated price changes becomes effective. However, under no circumstances will any price change cause the monthly price for the service to exceed the price that was in effect at the beginning of the selected TPP term.

(T)

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/1/ Material formerly appeared on Original Sheet 57 in this Section.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE**

/1/

Effective September 1, 2021, Integrated Services Digital Network (ISDN) Direct Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. The Company will continue to provide existing service to existing customers until the expiration of a customer's term agreement. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly Extension rates until the service is discontinued. The Company currently plans to discontinue this service on or after September 1, 2023.

(N)

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**A. DESCRIPTION**

/1/

Integrated Services Digital Network (ISDN) Direct Service is a telecommunications service that provides an integrated voice/data communications capability for the transmission of Circuit Switched Voice and Data signals on an incoming and outgoing basis utilizing Integrated Services Digital Network architecture as recommended by the International Telecommunications Union (ITU) and the American National Standards Institute (ANSI), as defined by Telcordia Technical References, and consistent with the North American ISDN Users Forum (NIUF) Implementation Agreements.

ISDN Direct Service provides the customer with the ability to combine Circuit Switched Voice and Circuit Switched Data services over a single ISDN Direct Service Line.

All ISDN Direct services require the use of an ISDN Line (2B+D). The two 64 Kbps "B" channels are used to transmit any combination of Circuit Switched Voice and Circuit Switched Data services. The "D" channel is used to carry signaling only.

**Circuit Switched Capability (Alternate Voice/Circuit Switched Data)**

Where technology permits, this capability provides the ability to originate and receive either Circuit Switched Voice or Circuit Switched Data calls over a single "B" channel, but not simultaneously. Circuit Switched Voice and Data calls are subject to additional charges. (See Other Applicable Charges and Payments.)

**Circuit Switched Capability (Data)**

Provides the ability to originate and receive Circuit Switched Data calls over the 64 Kbps "B" channel. Data line speeds up to 64 Kbps are permitted. Circuit Switched Data calls are subject to additional charges. (See Other Applicable Charges and Payments.)

**Circuit Switched Capability (Voice)**

Provides the ability to originate and receive Circuit Switched Voice calls, as well as an electronic key set capability over the 64 Kbps "B" channel. Circuit Switched Voice calls are subject to additional charges. (See Other Applicable Charges and Payments.)

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

**B. DEFINITIONS****"B" Channel**

A 64 Kbps portion of an ISDN Direct Service Line used for information transfer (voice/data) from user to user.

**"D" Channel**

A 16 Kbps portion of an ISDN Direct Service Line used for out of band signaling and control of the "B" channels.

**Flat Rate ISDN**

A plan that provides a flat monthly rate for unlimited local usage on Circuit Switched Voice and Circuit Switched Data traffic. Flat Rate ISDN is provided using the same technology, network and switching architecture as non-Flat Rate ISDN Direct.

**ISDN Direct Line**

The physical connection between and including the customer Network Interface and the ISDN Direct CO Termination.

**ISDN CO Termination**

Terminates the ISDN Direct Line in the serving central office.

**ISDN Ordering Codes (IOC)**

Refers to a very specific combination of National ISDN services and features. Each IOC includes information about the Features, number of Directory Numbers (DNs), DN appearances, number of Call Appearances, number of Terminal Endpoint Identifiers (TEIs) and number of Service Profile Identifiers (SPIDs).

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

**C. TERMS AND CONDITIONS**

1. Multiple Circuit Switched "B" channel devices are allowed, where facilities permit, on an ISDN Direct Service Line. The Company supports up to four (4) devices to share the "B" channels, per ISDN Direct Service Line.

Each device with circuit switched services will have a unique identifier, known as a Service Profile Identifier (SPID), and a unique primary directory number. For customer premises terminal equipment employing multiple SPIDs, each assigned SPID counts as a device.

2. A variety of standard and optional features and capabilities are offered. The availability and functions of the features may vary by serving central office.
3. An ISDN CO Termination is required for each ISDN Direct Line. This enables the subscriber to configure circuit switched service elements on the 2B+D ISDN Direct Line.
4. ISDN Direct Service is available as a business service.
5. The service is available from specially equipped digital switching equipment located in the Company's central offices and will be provided where facilities permit and where capacity is available.
6. ISDN services, features and functionality are available via defined ISDN Ordering Codes (IOCs) with this service. ISDN services, features and functionality ordered, not specifying an IOC, will incur a Custom Ordering Charge per ISDN Direct Service Line.

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

C. TERMS AND CONDITIONS (Cont'd)

7. This service only supports National compliant customer premises equipment.
8. An ISDN Line and an ISDN CO Termination are required for each IOC ordered.
9. Charges for features associated with an IOC may not be applicable, based on the technology of the serving central office.
10. A minimum service period of one (1) month is required for each ISDN Line.
11. Unique sets of standard and optional features and capabilities are specified for each IOC. The availability and functions of the features may vary by serving central office.

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

D. FEATURES

1. ISDN Ordering Codes (IOCs)

The following tables describe each ISDN Ordering Code, channel configurations and available features:

<u>Code</u>	<u>Description</u>	<u>Features</u>
B	Circuit Switched data on one B channel	Circuit Data Features Calling Number Identification Redirecting Number Delivery
C	Alternate Voice/ Circuit Switched data on one B channel	Voice and Circuit Data Features Calling Number Identification Redirecting Number Delivery

/1/

/1/ Material formerly appeared in Part 17, Section 1.



**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

D. FEATURES (Cont'd)

1. ISDN Ordering Codes (IOCs) (Cont'd)

Code	Description	Features
I	Circuit Switched Data on two B channels	Circuit Data Features Calling Number Identification Redirecting Number Delivery
J	Alternate Voice/Circuit Switched Data on one B channel and Circuit Switched Data on the other B channel	Voice and Circuit Data Features Calling Number Identification Redirecting Number Delivery

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

D. FEATURES (Cont'd)

1. ISDN Ordering Codes (IOCs) (Cont'd)

Code	Description	Features
K	Alternate Voice/Circuit Switched Data on one B channel and Circuit Switched Data on the other B channel	Voice Features Additional Call Offering Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery
M	Alternate Voice/Circuit Switched data on two B channels	Voice and Circuit Data Features Calling Number Identification Redirecting Number Delivery

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

D. FEATURES (Cont'd)

1. ISDN Ordering Codes (IOCs) (Cont'd)

Code	Description	Features
R	Circuit Switched Data on two B channels	Circuit Data Features Calling Number Identification Redirecting Number Delivery
S	Alternate Voice/Circuit Switched Data on two B channels	Voice and Circuit Data Features Calling Number Identification Redirecting Number Delivery

/1/

/1/ Material formerly appeared in Part 17, Section 1.

1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)

/1/

D. FEATURES (Cont'd)

1. ISDN Ordering Codes (IOCs) (Cont'd)

<u>Code</u>	<u>Description</u>	<u>Features</u>
U (EZ ISDN1)	Alternate Voice/Circuit Switched Data on two B channels	Voice Features Additional Call Offering Call Hold Call Forwarding Variable Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery
V (EZ ISDN1A)	Alternate Voice/Circuit Switched Data on two B channels	Voice Features Additional Call Offering Advanced Call Forwarding Call Hold Calling Number Identification Flexible Calling Redirecting Number Delivery Circuit Data Features Calling Number Identification Redirecting Number Delivery

/1/

/1/ Material formerly appeared in Part 17, Section 1.

1. **INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

## D. FEATURES (Cont'd)

## 2 Features and Capabilities

Features	Capability	
	Voice	Data
Additional Call Offering	Optional	Optional
Additional Multiple Call Appearances	Optional	N/A
Advanced Custom Calling Features	Optional	N/A
Basic EKTS	Standard	N/A
Call Hold	Standard	N/A
Call Transfer	Standard	N/A
Called Number Display	Standard	N/A
Caller ID	Standard	Standard
Calling Number Identification	Standard	N/A
Clear Channel Capability	N/A	Standard
Complementary Network Services	Optional	Optional
Conference Calling - 3 Way	Standard	N/A
Custom Calling Features	Optional	Optional
Denied Origination	Standard	Standard
Denied Termination	Standard	Standard
Flexible Calling	Standard	N/A
Hunt Group for Shared Data Access	N/A	Standard
Hunting	Standard	N/A
Intercom Calling	Optional	N/A
Message Waiting Indicator	Optional	N/A
Multiple Call Appearance	Standard	N/A
Redirecting Number Delivery	Standard	N/A
Secondary Telephone Number	Optional	N/A
Shared Call Appearance	Standard	N/A
Station-Controlled Conference (6 Port)	Optional	N/A

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

**D. FEATURES (Cont'd)****2. Features and Capabilities (Cont'd)****Additional Call Offering**

Provides notification to an ISDN user that a call directed to that user is present at the service switch, even though no "B" channel can be allocated for the call. Once notified, the user may free up a "B" channel (by clearing another call or placing another call on hold) in order to accept the additional call. This feature provides similar functionality as that provided by Call Waiting for the analog telephone user.

**Additional Multiple Call Appearances**

Provides additional call appearances, beyond the initial four appearances, of a station's primary directory number or secondary telephone number on the same instrument. These appearances may provide additional access from the public network, and/or may originate unique dial tone for additional outgoing access.

**Advanced Call Forwarding**

Provides for the assignment of the following features:

- Call Forwarding Variable (See Custom Calling Features.)
- Call Forwarding Don't Answer (See Complementary Network Services.)
- Call Forwarding Busy Line (See Complementary Network Services.)
- Message Waiting Indicator

**Advanced Custom Calling Features**

(See Other Applicable Charges and Payments.)

- Automatic Callback
- Call Screening
- Repeat Dialing (Automatic Recall)

**Automatic Recall**

(See Advanced Custom Calling Features.)

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

## D. FEATURES (Cont'd)

## 2. Features and Capabilities (Cont'd)

**Basic Electronic Key Telephone Service (EKTS)**

Basic EKTS supports multiple directory numbers (DNs) and the sharing of DNs between other EKTS users or terminals, in an EKTS group. Basic EKTS allows only one call appearance for a DN, so only one call may be associated with a given DN.

Basic EKTS and Call Appearance Call Handling (CACH) EKTS terminals may be members of the same EKTS group; however, a DN which is shared across Basic EKTS and CACH EKTS terminals may only be assigned one call appearance. EKTS is only used to manage voice calls. An EKTS primary DN can be an alternate voice/data DN.

**Call Appearance Call Handling (CACH)**

CACH supports multiple directory numbers (DNs), multiple call appearances of each DN, and the sharing of one or more call appearances of one or more DN's with other users or terminals, within the same EKTS group. The quantity of calls which may be associated with a given DN is the number of call appearances assigned to the DN. Up to four call appearances may be assigned as standard provisioning.

Basic EKTS and CACH EKTS terminals may be members of the same EKTS group; however, a DN which is shared across Basic EKTS and CACH EKTS terminals may only be assigned one call appearance. EKTS is only used to manage voice calls. An EKTS primary DN can be an alternate voice/data DN.

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

## D. FEATURES (Cont'd)

## 2. Features and Capabilities (Cont'd)

**Call Hold**

**Allows the** customer to place a call on hold at the central office, making the channel available for another call (either incoming or outgoing). This can be done through software in the customer's equipment or by depressing a properly programmed button on the customer's telephone equipment.

**Call Transfer**

(See Flexible Calling.)

**Called Number Display**

Displays the called number on compatible customer premises equipment when an outgoing call is placed.

**Caller ID**

(See Calling Number Identification.)

**Calling Number Identification**

Displays the caller's number, if not blocked, on compatible customer premises equipment when an incoming call is received. This feature will forward the calling number from the appropriately equipped originating central office to the customer provided display device.

/1/

/1/ Material formerly appeared in Part 17, Section 1.



**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

## D. FEATURES (Cont'd)

## 2. Features and Capabilities (Cont'd)

**Clear Channel Capability**

Allows all 64 Kbps on each "B" channel to be used for customer information, since all signaling and control functions are handled by the "D" channel, over the ISDN Direct Line. Calls may be either 56 or 64 Kbps depending on the network capabilities in place between the ISDN Direct Line and the distant end of the call.

**Complementary Network Services**

(See Other Applicable Charges and Payments.)

- Alternate Answering (Call Forwarding Don't Answer)
- Busy Line Transfer (Call Forwarding Busy Line)

**Conference Calling - 3 Way**

(See Flexible Calling.)

**Custom Calling Features**

(See Other Applicable Charges and Payments.)

- Call Forwarding Busy Line (See Complementary Network Services.)
- Call Forwarding Don't Answer (See Complementary Network Services.)
- Call Forwarding Variable
- Speed Calling - 8 (Voice capability only)
- Speed Calling - 30 (Voice capability only)

**Denied Origination**

Allows call terminations, but prevents the origination of a call.

**Denied Termination**

Allows call originations, but prevents the termination of a call.

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/2/

## D. FEATURES (Cont'd)

## 2. Features and Capabilities (Cont'd)

**Flexible Calling**

Flexible Calling is a set of capabilities that allows an ISDN user to establish and control two or more concurrent calls using a single "B" channel.

- **Conference** allows a user to hold incoming or outgoing calls, initiate another call, then return to the original call, adding on the last party.
- **Transfer** allows incoming and outgoing calls to be transferred to other lines. The customer initiating the transfer is responsible for any local or toll charges on transferred calls.
- **Drop** allows the user to drop the last party added to a conference call.

**Hunt Group for Shared Data Access**

Provides for the automatic search of a group of shared ports to find an available port in response to a connection request. The types of hunting are limited to Series Completion, Multi-Line and Circular.

**Hunting**<sup>1</sup>

Directs incoming calls to a busy line appearance to a predetermined telephone number to search for a line on which to complete the call. This may be another Circuit Switched Voice channel or another ISDN station. The types of hunting are limited to Series Completion, Multi-Line and Circular. This feature may impact the use of Shared Call Appearance and Multiple Call Appearance in certain serving central offices.

/1/ This feature is not available for Alternate Voice and Data Channel service configurations.

/2/

/2/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

**D. FEATURES (Cont'd)****2. Features and Capabilities (Cont'd)****Intercom Calling**

Allows a voice user to be able to call another voice user within the electronic key telephone service (EKTS) intercom group without affecting the busy/idle status of any of the directory numbers (DNs) of the calling voice user. Intercom groups can consist of just one other voice user, requiring no intercom address, can consist of two to ten voice users, requiring a one-digit intercom address, or can consist of two to one hundred voice users, requiring a two-digit intercom address. This is a form of abbreviated dialing in that, one voice user can dial another by simply hitting the intercom button and then dialing no digits, one or two digits respectively.

**Message Service**

(See Message Waiting Indicator.)

**Message Waiting Indicator**

Provides the ability to indicate to the ISDN station user that they have a voice or electronic message waiting at their Message Storage and Retrieval (MSR) System. The Message Waiting Indicator may be used to present either a visual or audible signal, for the specified IOC or CPE, to the user as determined by the customer's equipment and central office capability.

**Multiple Call Appearance**

Provides up to four appearances of the station's primary directory number or secondary telephone number on the same instrument. These appearances may provide additional access from the public network, and/or may originate unique dial tone for additional outgoing access (see Additional Multiple Call Appearance for applications that require more than four call appearances on the same device). This feature may impact the use of Shared Call Appearance in certain serving central offices.

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

## D. FEATURES (Cont'd)

## 2. Features and Capabilities (Cont'd)

**Redirecting Number Delivery**

For incoming calls forwarded to an ISDN user, Redirecting Number Delivery delivers to the ISDN user's compatible customer premises equipment the directory number (if not blocked), associated with the forwarding party and the reason why the call was forwarded.

**Secondary Telephone Number**

Provides an additional telephone number and one call appearance which is not physically terminated, but exists in the programming of Circuit Switched Voice. The additional directory number, while not terminated on a dedicated facility, may be accessed from the network, and may originate unique outgoing dial tone from one instrument that has another directory number as its primary directory number.

**Shared Call Appearance**

Provides the capability for a directory number appearance to be shared by two or more ISDN stations. A user may bridge onto an active call on the shared appearance. For call privacy, manual bridge exclusion capabilities are available to prevent other stations from bridging on to selected calls.

**Station-Controlled Conference (6 Port)**

Provides an additional telephone number and one call appearance which is not physically terminated, but exists in the programming of Circuit Switched Voice. The additional directory number, while not terminated on a dedicated facility, may be accessed from the network, and may originate unique outgoing dial tone from one instrument that has another directory number as its primary directory number.

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

E. Technical References

All customer premises equipment used to interface with ISDN Direct Service is required to conform with the Technical Reference Specifications used by the Company.

<u>Subject</u>	<u>Technical Reference</u>
Ameritech ISDN Interface Specification	AM-TR-NIS-000068

The Technical Reference can be obtained from:

APEX Support Team  
(734) 523-7348

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

**F. PRICES**

The prices shown for ISDN Direct are exclusive of local and toll charges and associated customer premises equipment.

Charges for other services or features normally applied on a per line basis apply on a per telephone number basis for this service.

ISDN Direct Lines are also subject to End User Common Line (EUCL) charges. (See Other Applicable Charges and Payments). The customer shall be liable for all adjustments to the EUCL charge per ISDN Direct Line, per month, as authorized or mandated by the Federal Communications Commission (or by any regulatory body or commission or court of competent jurisdiction).

Charges for the loop, EUCL, usage and optional features are based upon the customer's class of service.

Charges for usage and optional features will be applied on a per channel service capability basis.

When the customer's premises and the central office providing ISDN Direct are located in different Service Areas, Base Rate charges will apply. (See Other Applicable Charges and Payments). Customers provided this service arrangement will require three Interexchange Mileage component charges and six Channel Mileage Termination charges for each ISDN Direct Line they purchase.

In cases where the customer's premises are in Independent Telephone Company (ITC) serving areas, the Company will assess Base Rate Interexchange Mileage charges only to the point of meet with the ITC or intermediate ITC. Charges for ITC services will be assessed by the ITC.

ISDN Local Calling Value Plan is available with this service at additional charges.

/1/

/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)****F. Prices (Cont'd)****1. Service Elements**

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>	<u>Monthly</u>	<u>Monthly Payment Term Payment Plans<sup>/1/</sup></u>	
			<u>36 Months</u>	<u>60 Months</u>
ISDN Direct Line /CO Termination /P2B/	\$50.00	\$3,456.00(l)		
Circuit Switched Capability, per "B" Channel /BSB1D/	20.00	325.00(l)	\$6.25	\$4.75

/1/ Effective August 31, 2011, Term Payment Plans are no longer available for new installations or renewals of ISDN Direct Service. ISDN Direct customers currently on a Term Payment Plan may continue service at their existing TPP rate until the contract term expires. Upon completion of the current contract term, customers may continue receiving the service at the then current month-to-month rates. If the customer does not request discontinuance of the service, the month-to-month guidebook rates in effect at such time will automatically apply.

1. **INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/2/

F. PRICES (Cont'd)

1. Service Elements (Cont'd)

Description <u>/Billing Code/</u>	Non-recurring <u>Charge</u>	<u>Monthly</u>	Monthly Payment <u>Term Payment Plans<sup>1</sup></u>	
			<u>36 Months</u>	<u>60 Months</u>
Additional Call Offering, each <u>/NCO/</u>	\$5.00	\$3.00		
Additional Multiple Call Appearances, each <u>/ACSPB/</u>	5.00	2.00		
Advance Custom Calling Features				
- Automatic Callback				
- Call Screening				
- Repeat Dialing (See Other Applicable Charges and Payments)				

/1/ Effective August 31, 2011, Term Payment Plans are no longer available for new installations or renewals of ISDN Direct Service. ISDN Direct customers currently on a Term Payment Plan may continue service at their existing TPP rate until the contract term expires. Upon completion of the current contract term, customers may continue receiving the service at the then current month-to-month rates. If the customer does not request discontinuance of the service, the month-to-month guidebook rates in effect at such time will automatically apply

/2/

/2/ Material formerly appeared in Part 17, Section 1.



1. **INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/2/

F. PRICES (Cont'd)

1. Service Elements (Cont'd)

Description <u>/Billing Code/</u>	Non-recurring <u>Charge</u>	<u>Monthly</u>	Monthly Payment <u>Term Payment Plans<sup>1</sup></u>	
			<u>36 Months</u>	<u>60 Months</u>
Complementary Network Services				
- Alternate Answering				
- Busy Line Transfer (See Other Applicable Charges and Payments)				
Custom Calling Features				
Call Forwarding Variable (See Other Applicable Charges and Payments)				
Intercom Calling /NZV/	\$5.00	\$2.50		
Message Waiting Indicator, each /MLN/	5.00	2.50		
Secondary Telephone Numbers, each /DO6/	5.00	2.50		

/1/ Effective August 31, 2011, Term Payment Plans are no longer available for new installations or renewals of ISDN Direct Service. ISDN Direct customers currently on a Term Payment Plan may continue service at their existing TPP rate until the contract term expires. Upon completion of the current contract term, customers may continue receiving the service at the then current month-to-month rates. If the customer does not request discontinuance of the service, the month-to-month guidebook rates in effect at such time will automatically apply.

/2/

/2/ Material formerly appeared in Part 17, Section 1.

1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)

/3/

F. PRICES (Cont'd)

1. Service Elements

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>	<u>Monthly</u>	<u>Monthly Payment Term Payment Plans<sup>2</sup></u>	
			<u>36 Months</u>	<u>60 Months</u>
Station Controlled Conference - 6 Port /EQ6/	\$15.00			
Subsequent charges for Circuit Switched rearrangements to add, change or move line appearances or feature appearances, per line, per occasion /REA16/	15.00			
Custom Ordering Charge, per ISDN Line /NR91Z/	75.00			
Flat Rate Usage <sup>1</sup> /UXG1X/		\$60.00		

/1/ Available only with IOCs S1, U, V, EZISDN1 and EZISDN1A.

/2/ Effective August 31, 2011, Term Payment Plans are no longer available for new installations or renewals of ISDN Direct Service. ISDN Direct customers currently on a Term Payment Plan may continue service at their existing TPP rate until the contract term expires. Upon completion of the current contract term, customers may continue receiving the service at the then current month-to-month rates. If the customer does not request discontinuance of the service, the month-to-month guidebook rates in effect at such time will automatically apply.

/3/ Material formerly appeared in Part 17, Section 1.

/3/

1. **INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

## F. PRICES (Cont'd)

## 2. Other Applicable Charges and Payments

Service ordering and line connection charges are also applicable for the establishment of ISDN Direct service.

References:

<i>Service</i>	<i>Reference</i>
Advanced Custom Calling Features Automatic Callback Call Screening Repeat Dialing	Wisconsin Guidebook Part 7, Section 2
Base Rate Service	Wisconsin Guidebook Part 15, Section 3
Complementary Network Services Alternate Answering Busy Line Transfer	Wisconsin Guidebook Part 7, Section 3
Custom Calling Features Call Forwarding Variable Speed Calling - 8 Speed Calling - 30	Wisconsin Guidebook Part 7, Section 1
End User Common Line (EUCL)	Wisconsin Operating Companies Tariff F.C.C. No. 2, Section 4
ISDN Direct Line Exchange access line charge	Wisconsin Guidebook Part 4, Section 2
Service ordering and line connection	Wisconsin Guidebook Part 3, Section 1
Usage Message	Wisconsin Guidebook Part 4, Section 2

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/1/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/2/

## F. PRICES (Cont'd)

## 3. Payment Plans

- **Month to Month**

Integrated Services Digital Network (ISDN) Direct Service is offered on a Month-to-Month basis. Month-to-Month prices will be subject to Company initiated price adjustments.

- **Term Payment Plans<sup>1</sup>**

ISDN Direct Service is offered under the Term Payment Plan (TPP) which allows the customer to pay for the service over a customer selected term payment plan.

Customers may elect to subscribe to ISDN Direct Service for an extended period under a Term Payment Plan (TPP) option, which allows the customer to select a 36- or 60-month payment plan. During the length of the selected TPP, monthly prices for service ordered under the plan will automatically change (increase or decrease) as Company initiated price changes become effective. However, under no circumstances will any price change cause the monthly price for the service to exceed the price that was in effect at the beginning of the selected TPP term.

In addition to other regulations of this tariff, the following terms and conditions apply to Term Payment Plans (TPP):

/1/ Effective August 31, 2011, Term Payment Plans are no longer available for new installations or renewals of ISDN Direct Service. ISDN Direct customers currently on a Term Payment Plan may continue service at their existing TPP rate until the contract term expires. Upon completion of the current contract term, customers may continue receiving the service at the then current month-to-month rates. If the customer does not request discontinuance of the service, the month-to-month guidebook rates in effect at such time will automatically apply.

/2/

/2/ Material formerly appeared in Part 17, Section 1.

(N)

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

## F. PRICES (Cont'd)

## 3. Payment Plans (Cont'd)

- **Changes**

With the written permission of the Company, the obligation to pay the TPP charges may be assumed by another customer if the service has not been terminated and if the other customer intends to continue using the service at the present location and actually continues such use. Such assumption of service does not relieve or discharge the original customer from remaining jointly or severally liable with the transferee for any and all obligations existing at the time of the transfer.

/1/

- **Renewal Options**

If the customer does not elect a new TPP and does not request discontinuance of service, service will be continued at the month-to-month price then currently in effect for the Month-to-Month Payment Plan.

/2/

In the event of termination of the service provided under the Term Payment Plan (TPP) during the TPP term, the customer will remain liable for payment of a percentage of the monthly TPP charges for the remainder of the term as indicated below, which shall upon any such termination immediately become due and payable in its entirety.

Customers requesting termination of service prior to the expiration date of the TPP term will be liable for a termination charge.

/2/

/1/ Material formerly appeared in Part 17, Section 1.

/2/ Material formerly appeared in Part 17, Section 1.

**1. INTEGRATED SERVICES DIGITAL NETWORK (ISDN) DIRECT SERVICE (Cont'd)**

/1/

## F. PRICES (Cont'd)

## 4. Termination Charges

The termination charge for all TPP terms will be calculated as follows:

For service term agreements which become effective on or after May 3, 2004:

- in addition to any unpaid Special Construction or Nonrecurring Charges (excluding waived charges), customer termination liability for cancellation of ISDN Direct Service shall be equal to fifty percent (50%) of all recurring charges for the remaining months of the customer's TPP term

For service term agreements in effect prior to May 3, 2004:

- The dollar difference between the current monthly TPP price for the TPP term that could have been completed during the time the service was actually in service and the customer's current TPP price for each month the service was provided.

Example:

A customer subscribed to a 60-month TPP term and disconnected service during the 37th month. This customer's termination charge would be

$(36\text{-month TPP price} - 60\text{-month TPP price}) \times 37 = \text{Termination Charge}$

The 36-month TPP term could have been completed during the months the service was actually in service.

All termination charges will be based on the TPP prices in effect at the time of termination.

Termination charges are not applicable to changes in the physical location of the customer's ISDN Direct Services as long as the service originates in the same serving central office area.

/1/

/1/ Material formerly appeared in Party 17, Section 1.

**1. ISDN BASIC RATE INTERFACE (BRI) SINGLE B CHANNEL PACKET SERVICE**

/1/

Effective September 1, 2021, ISDN Basic Rate Interface (BRI) Single B Channel Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. The Company will continue to provide existing service to existing customers until the expiration of a customer's term agreement. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly Extension rates until the service is discontinued. The Company currently plans to discontinue this service on or after September 1, 2023.

(N)

(N)

**A. DESCRIPTION**

/1/

ISDN Basic Rate Interface (BRI) Single B Channel Packet Service provides data communications capability for the transmission of packet switched data signals utilizing Integrated Services Digital Network architecture as recommended by the International Telecommunications Union (ITU) and the American National Standards Institute (ANSI), as defined by Telcordia Technical References, and consistent with the North American ISDN Users Forum (NIUF) Implementation Agreements. Packet switching is designed to provide economical, usage-sensitive data transport for interactive (or bursty) data.

ISDN BRI Single B Channel Packet Service only provides high speed packet switched data service that does not connect to the Digital Packet Network (DPN) switch. This service is provided over one 64 Kbps "B" Channel of a single ISDN BRI service line. No other Packet Network services are provided.

**B. DEFINITIONS****ISDN CO Termination**

Terminates the ISDN Direct Line in the serving central office.

**ISDN Direct Line**

The physical connection between and including the customer Network Interface and the ISDN CO Termination.

**Kilosegment**

One thousand (1,000) segments.

/1/

/1/ Material formerly appeared in Part 17, Section 3.

**1. ISDN BASIC RATE INTERFACE (BRI) SINGLE B CHANNEL PACKET SERVICE (Cont'd)**

/1/

**B. DEFINITIONS (Cont'd)****Packet**

Continuous sequence of binary digits of information which is switched through the network as an integral unit. Consists of customer data, facilities and addressing/signaling information.

**Packet Switched Data - "B" Channel**

Provides the ability to originate and receive X.25 packet switched data calls over a single 64 Kbps "B" channel.

Provides up to three (3) logical channels and throughput of up to 9.6 Kbps per individual logical channel.

**Permanent Virtual Circuit (PVC)**

A Virtual Circuit that is established and available on a permanent basis. No call establishment or call termination is associated with a Permanent Virtual Circuit.

**Segment**

A portion of a packet defined by the Company as a sixteen (16) byte portion.

**Single "B" Channel**

A 64 Kbps portion of an ISDN BRI Service line used for transmission of packet switched data.

**Virtual Circuit**

A communications connection that allows transmission of sequenced data packets through the network. Transmission bandwidth is only allocated when packets are actually being transmitted.

/1/



**1. ISDN BASIC RATE INTERFACE (BRI) SINGLE B CHANNEL PACKET SERVICE (cont'd)**

/1/

**C. TERMS AND CONDITIONS**

1. A single device or terminal may be connected directly to an ISDN BRI Single B Channel Packet Service line. This device will have a unique identifier, known as a Service Profile Identifier (SPID), and a unique primary directory number.
2. An ISDN CO Termination and an ISDN Direct Line is required for each ISDN BRI Single B Channel Packet Service line.
3. Packet switching usage charges apply. Applicable charges are:
  - Data Transport Minutes of Use, or
  - Kilosegments
4. Customers who transmit an average of 2.0 kilosegments or less of data per logical session per minute can choose between minutes of use (MOU) and kilosegment billing. Customers who transmit greater than an average of 2.0 kilosegments per minute per logical session per minute will be billed for kilosegments transmitted. The average kilosegments per minute will be calculated for the billing period for rating purposes.

The measurement of a MOU session begins upon receipt of the call acceptance packet and ends upon receipt of the call clear packet. The minimum initial MOU session is 7 tenths of a minute and additional usage is measured in tenths of minutes. MOUs will be accumulated for the billing period for rating purposes.

Kilosegment measurement counts the number of segments transmitted. A kilosegment is 1000 segments. A segment has a billable length of 64 octets of customer information. The minimum initial session is 40 segments and additional usage is measured in segments. Segments are totaled at the end of the billing period and rounded to the next whole kilosegment for rating purposes.

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/1/ Material formerly appeared in Part 17, Section 3.

**1. ISDN BASIC RATE INTERFACE (BRI) SINGLE B CHANNEL PACKET SERVICE (Cont'd)**

/1/

**C. TERMS AND CONDITIONS (Cont'd)**

5. An evening, weekend and holiday 50% discount in rates will apply to the ISDN Interface charge.

The evening discount will apply for any portion of a call occurring Monday through Friday during the period from 4:00 P.M. to but not including 7:00 A.M.

The Weekend and Holiday fifty percent (50%) discount will apply for any portion of a call through the entire day. The Holidays are New Year's Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

6. ISDN BRI Single B Channel Packet Service is available as a business service.
7. The service is available from specially equipped digital switching equipment located in the Company's central offices and will be provided where facilities permit and where capacity is available.
8. This service only supports National compliant customer premises equipment.

**D. FEATURES****Flow Control Negotiation**

A standard feature that allows negotiation on a per call basis of the packet and window size for each direction of data transfer and the ISDN CO Termination.

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/1/ Material formerly appeared in Part 17, Section 3.

**1. ISDN BASIC RATE INTERFACE (BRI) SINGLE B CHANNEL PACKET SERVICE (Cont'd)**

/1/

**E. Technical References**

All customer premises equipment used to interface with ISDN BRI Single B Channel Packet Service is required to conform with the Technical Reference Specifications used by the Company.

SubjectTechnical References

Ameritech ISDN Interface Specification

AM-TR-NIS-000068  
AM-TR-OAT-000068  
AM-TR-NPL-000068

The Technical References can be obtained from:

APEX Support Team  
(734) 523-7348

**F. Prices**

The prices shown for ISDN BRI Single B Channel Packet Service are exclusive of local and toll charges and associated customer premises equipment.

ISDN BRI Single B Channel Packet Service lines are also subject to End User Common Line (EUCL) charges. (See Other Applicable Charges and Payments.) The customer shall be liable for all adjustments to the EUCL charge per ISDN BRI Single B Channel Packet Service line, per month, as authorized or mandated by the Federal Communications Commission (or by any regulatory body or commission or court of competent jurisdiction).

Charges for the loop, EUCL, and usage are based upon the customer's class of service.

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/1/ Material formerly appeared in Part 17, Section 3.

**1. ISDN BASIC RATE INTERFACE (BRI) SINGLE B CHANNEL PACKET SERVICE (Cont'd)**

/2/

F. PRICES (Cont'd)

When the customer's premises and the central office providing ISDN BRI Single B Channel Packet Service line are located in different Service Areas, Base Rate charges will apply. (See Other Applicable Charges and Payments.) Customers provided this service arrangement will require three Interexchange Mileage component charges and six Channel Mileage Termination charges for each ISDN BRI Single B Channel Packet Service line they purchase.

In cases where the customer's premises are in Independent Telephone Company (ITC) serving areas, the Company will assess Base Rate Interexchange Mileage charges only to the point of meet with the ITC or intermediate ITC. Charges for ITC services will be assessed by the ITC.

1. Service Elements

<u>Description /Billing Code/</u>	<u>Non-Recurring Charge</u>	<u>Per Month</u>
ISDN Direct Line/CO Termination /P2B/	1	1
Packet Switched Data "B" Channel /BSB3X/	\$100.00	\$85.00
Usage		
- Data Transport Charge per 1/10 minute or fraction thereof /HRBM1/	-	.0015
- Data Transport Charge per Kilosegment /HRBKX/	-	.24

/1/ See Other Applicable Charges and Payments, on Sheet No. 7 in this Section.

/2/

/2/ Material formerly appeared in Part 17, Section 3.

**1. ISDN BASIC RATE INTERFACE (BRI) SINGLE B CHANNEL PACKET SERVICE (Cont'd)**

/1/

## F. PRICES (Cont'd)

## 2. Other Applicable Charges and Payments

Service ordering and line connection charges are also applicable for the establishment of ISDN BRI Single B Channel Packet Service.

## References:

ServiceReference

Base Rate Service

Wisconsin Guidebook, Part 15, Section 3

End User Common Line (EUCL)

Tariff F.C.C. No. 2, Section 4

ISDN Direct Line/CO Termination

Wisconsin Guidebook, Part 17, Section 1

Service ordering and line connection

Wisconsin Guidebook, Part 3, Section 1

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/1/ Material formerly appeared in Part 17, Section 3.