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## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

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## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - Business Service (IBS)

#### A42.1.1 General

- A.** ISDN - Business Service (IBS) is an intraLATA service which uses circuit and packet switching technology to provide simultaneous transmission of voice, data, and packet services over the same exchange access line. Calling/Called Number Delivery, Calling Name Delivery, and Call Hold are included with this service where facilities permit. Calling numbers/names will be delivered within the Common Channel Signaling System 7 serving area unless delivery is blocked by the calling party through Per Line or Per Call Blocking. Features are available to increase the capability of the service and may be subscribed to on an as-needed basis. Grouping Service (Hunting) is available for IBS.
- B.** IBS provides efficient transmission of voice and data over the telephone network using out-of-band signaling rather than traditional in-band signaling. IBS service provides the subscriber with Basic Rate Interface for ISDN service at the point of demarcation. Basic Rate Interface provides the customer with access of up to two 64 Kbps (B) channels and one 16 Kbps (D) channel per exchange access line. The D channel carries the out-of-band signaling information associated with the B and D channels and is also capable of providing transmission of packet information at a speed of up to 9.6 Kbps.
- C.** B channel circuit switched services offer up to 64 Kbps intra-office transmission of voice or data. This option permits the customer to utilize either circuit voice or data transmission paths on a per call selection basis. Transmission on the B channel will be circuit switched at 64 Kbps within the switch and/or equipped facilities between ISDN compatible central offices. ISDN interconnection to non-ISDN equipped central offices will be potentially subjected to analog transmission or sub-rated to 56 Kbps. Each Access to a B channel for Circuit Switched Voice/Circuit Switched Data (CSV/CSD) includes one directory number (DN).
- D.** (DELETED)
- E.** IBS must consist of the following components: (M)
- Basic Rate Digital Subscriber Line (DSL) Access Arrangement (M)
  - At least one channel, either B or D, must be activated. A maximum of two simultaneous B channels can be in use per Basic Rate Interface. (M)
  - Minimum of one and maximum of eight Profiles per Basic Rate Digital Subscriber Line (DSL) Access Arrangement. (M)
- F.** IBS can be configured to provide a maximum of eight terminals for each Basic Rate Digital Subscriber Line (DSL) Access Arrangement. Given this maximum number of terminals, the number of terminals configurable is determined by the number and type of channels activated per Basic Rate DSL Access Arrangement. Several terminals can be configured to have access to an activated B channel, but only one terminal can be active at one time. The D channel, if activated, can be configured to provide simultaneous packet switching for a maximum of eight terminals. Some devices may function as more than one terminal. (M)
- G.** Usage Option Plan A will only be available on National ISDN IBS lines. The Basic Local Calling Area for Usage Option Plan A will be the LATA boundary. Local usage under Usage Option Plan A will be recorded on originating calls terminating within the LATA. Minutes of use rates will apply for all local usage. This plan is limited to outward only. (M)
- The following stipulations apply only when the IBS line from which the call originates subscribes to a Usage Option Plan. (M)
1. Calls completed with operator assistance within the Basic Local Calling Area and Extended Local Calling Area will be rated at the Usage Option Plan usage charges in addition to the appropriate Operator Assisted Local Call surcharges. Such calls are itemized on the subscriber's billing statement and are billed outside any applicable usage allowances or caps. (M)
- All IBS lines in an earning account must be in the same type Plan, i.e., all Flat Rate, Usage Option Plan A's, etc. Hunting between various types of plans will not be allowed. (M)
- H.** A minimum service period of three months will be required on IBS lines installed. Termination Charges as defined will apply if the customer terminates or disconnects the service prior to fulfilling the three months period. (M)
- I.** For the determination of whether to apply business or residence rates, refer to A2.3.6. (M)

**Note 1:** After parameter initially set, subscriber may activate these on a per call basis. (M)

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - Business Service (IBS) (Cont'd)

(M1)

#### A42.1.2 Terms and Conditions

(T)(M2)

- A. Customer Premises Equipment (CPE) that is compatible with the ISDN Interface is the responsibility of the subscriber for provisioning. (M2)
- B. The Company will be responsible for publishing and maintaining ISDN Interface Specifications. (M2)
- C. The Company shall not be responsible if changes in any of the equipment, operations, or procedures of the Company utilized in the provision of Basic Rate Interface render any facilities provided by the customer obsolete or require modification or alteration of such equipment or system, or otherwise affect its use or performance. (M2)
- D. Suspension of service is not allowed except for IBS lines associated with MultiServ service or MultiServ PLUS service. Suspension at the request of the subscriber will be allowed on the B channel portion of these main station lines at fifty percent (50%) of the rate regularly charged. Optional features outlined in Section A12 and this Section will be suspended at no recurring charge during the period of suspension unless otherwise noted. Other **terms and conditions** as outlined in Section A2 apply. (T)(M2)
- E. Service Charges in Section A4 are applicable per Basic Rate DSL Access Arrangement in addition to rates and charges following. Each ISDN Basic Rate Access Arrangement will be counted as one line in determining the application of Section A4 charges. A Secondary Service Charge is applicable when adding a B or D channel, or other features to an existing ISDN line. (M2)
- F. IBS will be provided subject to the following conditions: (M2)
  - 1. Outside plant facilities must be compatible: (M2)
    - a. Each subscriber location must be evaluated by a Company engineer to determine if the serving facilities are compatible. (M2)
    - b. ISDN is generally available to a subscriber when the subscriber's premises is served via copper cable of 18 kft or less in length. Measurement is based on route distance from the subscriber's local serving central office. (M2)
    - c. Where the subscriber's premises is served via subscriber line carrier, the availability of ISDN service is dependent upon the type of subscriber line carrier deployed. (M2)
  - 2. IBS is available from central offices equipped for ISDN service. IBS is also available to subscribers who are served by certain offices not equipped for ISDN. In situations in which a subscriber is located in the flat rate calling area of an ISDN equipped office (host office), ISDN service will be furnished from the host office without the application of Interoffice Circuit rates. IBS subscribers to be served under this arrangement must sign an agreement stating that the service will be moved back to the normal serving central office and that the subscriber understands that a number change and/or a change in the local calling area may be required when/if that office is equipped with ISDN. (M2)
 

Nonrecurring charges will not apply when a subscriber's service, provided under this arrangement, is moved to his normal serving central office. (M2)

Charges for Interoffice facilities will apply for any line associated with a MultiServ service or MultiServ PLUS service that is served from a central office other than the normal serving central office. (M2)
- G. If a subscriber's normal serving office is equipped with ISDN, and the subscriber requests service from another central office, Interoffice Circuit rates in this Section will apply. (M2)
- H. The subscriber may arrange to have IBS terminated at premises other than his own for use by his employees, agents or representatives in the conduct of the subscriber's business. The subscriber shall assume the same responsibility for payment of the charges applicable for such service as that which he assumes for services terminated on his own premises. Normal restrictions on the use of the service, as specified in A2.2.1 apply. (M2)
- I. For calls terminated outside the local calling area specified in A3.5, only the applicable toll or Expanded Local Service usage charges will apply. (M2)
- J. Usage rates will apply for all originating minutes of use under Usage Option Plan A. Usage rates, as appropriate, are specified in this Section. (M2)

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - Business Service (IBS) (Cont'd)

#### A42.1.2 Terms and Conditions (Cont'd)

- K.** IBS lines may be purchased out of this Section to be associated with a Multiserv service or MultiServ PLUS service located in Section A12. Terms and conditions for a MultiServ service or MultiServ PLUS service will apply to these IBS lines except as otherwise noted in this Section. (T)
- Each ISDN Basic Rate DSL Access Arrangement will be counted as one a Multiserv service or MultiServ PLUS service line in determining the total system size. (M1)
- IBS lines associated with MultiServ service or MultiServ PLUS service may purchase Optional Features compatible with ISDN from the MultiServ service section. When a feature is listed in the Optional Feature Sections of both the MultiServ service and IBS sections, the IBS version of the feature should be ordered. Multiserv service Feature Groups are not available for use with IBS lines. (M2)
- Only 36-120 months contract periods are available under the Rate Stability Plan in this section for IBS lines associated with a MultiServ service or MultiServ PLUS service as those lines must be coterminous with the MultiServ service or MultiServ PLUS service main station lines. (M2)

#### A42.1.3 Definitions

##### B CHANNEL

A bidirectional synchronous channel capable of supporting 64 Kbps of digital transmission. (M2)

##### D CHANNEL

A 16 Kbps channel provides digital signaling for ISDN transmission and is also capable of supporting 9.6 Kbps digital transmission of packet information for the Basic Rate Interface. It is bi-directional and synchronous. (M2)

##### 64 KBPS CLEAR CHANNEL CAPACITY (CCC)

A B channel connection that provides end-to-end digital connection in which all 64 Kbps of bandwidth are available for customer use. (M2)

##### (DELETED)

##### BASIC RATE DIGITAL SUBSCRIBER LINE (DSL) ACCESS ARRANGEMENT

The Basic Rate Digital Subscriber Line (DSL) Access Arrangement is the *guidebook* element that represents the ISDN central office equipment and the loop to the customer's premises. This element alone does not provide ISDN service, but requires activation of at least one B or D channel. (D)(M2)

##### VIRTUAL CIRCUIT

A logical connection across a packet switch network that emulates a point-to-point circuit by insuring data integrity, transparency and data sequence. (M2)

##### LOGICAL CHANNEL

A communications channel through the network that allows simultaneous transmission of sequenced data packets through the network. No circuit capacity is preassigned to a logical channel; capacity is made available as data is transmitted. (M2)

##### CIRCUIT SWITCHED VOICE/CIRCUIT SWITCHED DATA

B channel Circuit Switched Voice/Circuit Switched Data (CSV/CSD) provides voice/data transmission over the B channel to be circuit switched at up to 64 Kbps over the public switched network. (M2)

##### CONFIGURATION GROUPS

Configuration Groups use a similar software assignment concept to associate physical buttons of ISDN terminals to feature and actions. Since Configuration Groups use a group assignment process, it is necessary to group ISDN terminals together by type and common button action, so that terminals assigned to the same Configuration Group will operate in the same manner. Call appearances and features on one terminal's buttons will then appear on the same button numbers on any other terminal in the same Configuration Group, as long as the same features/call appearances are used on each terminal. If not, the buttons cannot be used for a different feature or function. Variations in terminal types, features, call appearances, and feature button location will necessitate multiple Configuration Groups. (M2)

**Page 3.1 is hereby deleted in its entirety and removed from this Guidebook**

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## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - Business Service (IBS) (Cont'd)

#### A42.1.3 Definitions (Cont'd)

##### FEATURE KEY MAPS

A Feature Key Map is a software profile stored in the EWSD switch that defines the features that are available to a particular Terminal Service Profile. The switch uses this software profile to allow activation of specific features via "key Type" action and to indicate the status of these features.

##### DIRECTORY NUMBERS (DN)

The telephone numbers associated with B or D channel access.

- Primary Directory Number (PDN) is a directory number included with each access to a B or D channel.
- Secondary Directory Number is a directory number that is not the Primary DN on any terminal. Secondary Directory Numbers may be purchased separately.
- Shared Directory Number, either Primary or Secondary, is a directory number that appears on more than one terminal. Shared Directory Numbers may be purchased separately.
- Unique Directory Number is a Primary Directory Number that is not shared with any other B or D channel service on the same profile.

##### REDIRECTING NUMBER DELIVERY

- Redirecting Number Delivery (RND) is a terminating feature. If the received call has been previously forwarded, the first and last forwarding DNs will be delivered to the called party who subscribes to RND in a Redirecting Number Information Element (RNIE) unless delivery is blocked by the calling party through Per Line or Per Call Blocking. (Available in DMS-100 only)

#### A42.1.4 Rates and Charges

			Installation Charge	Month To Month	Rate Stability <sup>1</sup> Monthly Rate		USOC	
					Mos. Plan	Mos. Plan		
A.	Interoffice Circuits							
	1. Per DSL							
	(a)	Each, including first mile	\$240.00	\$ 115.00	\$105.00	\$95.00	M1GNC	
	(b)	Each additional mile	-	.45	.40	.35	M1GNM	
B.	Basic Rate Interface							
	1. Basic Rate DSL Access Arrangement							
	a. Business Service							
	(1) Per DSL							
	(a)	ISDN Access (5ESS/DMS)	130.00	1,206.00	55.00	55.00	LTBLB	(I)
	(b)	ISDN Access (EWSD)	130.00	1,206.00	55.00	55.00	LTBEB	(I)
	(2) Per DSL Usage Option Plan A							
	(a)	ISDN Access (5ESS/DMS)	130.00	1,530.00	69.95	69.95	LQ1AA	(I)
	(b)	ISDN Access (EWSD)	130.00	1,530.00	69.95	69.95	LQ1AC	(I)

**Note 1:** As of August 31, 2011, Rate Stability Plans are no longer available for new or renewing subscribers.

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - Business Service (IBS) (Cont'd)

#### A42.1.4 Rates and Charges (Cont'd)

		Installation Charge	Month To Month	Rate Stability <sup>1</sup> Monthly Rate		USOC	
				24-59 Mos. Plan	60-120 Mos. Plan		
B.	Basic Rate Interface (Cont'd)						
2.	Channels Activated						
a.	B Channel (Maximum of 2)						
(1)	Circuit Switched Voice/Data, each						
(a)	Flat Rate Per Channel	-	\$360.00	\$13.25	\$11.25	LPRFX	(1)
(b)	Usage Option Plan A Per Channel	-	-	-	-	LQLAX	
(2)	Circuit Switched Voice/Data for use with MultiServ PLUS service, each <sup>2</sup>						
(a)	Flat Rate	-	14.25	9.35	7.25	MNCCF	
b.	D Channel (Maximum of 1)						
(1)	Low Speed Packet Switching as a single Service						
(a)	One D Channel Low Speed Packet Switching with no B Channel service	-	12.00	12.00	12.00	LTQDX	
(2)	Low Speed Packet Switching with one or more B Channels						
(a)	Per Channel	-	12.00	12.00	12.00	LPYLX	
Note 1:		As of August 31, 2011, Rate Stability Plans are no longer available for new or renewing subscribers.					
Note 2:		This rate element may be used only with IBS lines associated with MultiServ PLUS service and require Network Access Registers.					

Pages 5.0.1 and 5.1 are hereby deleted in their entirety and removed from this Guidebook

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - Business Service (IBS) (Cont'd)

#### A42.1.4 Rates and Charges (Cont'd)

##### C. Basic Rate Interface Profile

1. Per Profile - One Profile must be defined for each terminal

	Installation Charge	Month To Month	Rate Stability <sup>1</sup> Monthly Rate		USOC	
			24-59 Mos. Plan	60-120 Mos. Plan		
a. Terminal Service Profile - EWSD						(M)
(1) Per Terminal Service Profile						(M)
(a) Each	-	-	-	-	EWSTP	(M)
b. B Channel Circuit Switched Voice/Circuit Switched Data (CSV/CSD)						(M)
(1) Flat Rate - 5ESS/DMS <sup>2</sup>						(M)
(a) Per Access	\$10.00	-	-	-	LTQ8Y	(M)
(2) Flat Rate - EWSD <sup>3,4</sup> Per Access						(M)
(a) Voice	10.00	-	-	-	LTQVB	(M)
(b) Data	-	-	-	-	LTQDB	(M)
(3) Expanded Local Service (ELS) - Community Caller Plus without Inward Call Billing <sup>5</sup>						(M)
(a) Per Access - 5ESS/DMS	10.00	-	-	-	LTQCY	(M)
(4) Expanded Local Service ELS - Community Caller Plus without Inward Calling Billing - EWSD Per Access <sup>3,5</sup>						(M)
(a) Voice	10.00	-	-	-	LTQCV	(M)
(b) Data	-	-	-	-	LTQCD	(M)
(5) Usage Option Plans - Outward Only (5ESS/DMS)						
(a) Per Access	10.00	-	-	-	LQWOE	
(6) Usage Option Plans - Outward Only (EWSD) <sup>3</sup>						(T)
(a) Voice	10.00	-	-	-	LQWOV	
(b) Data	-	-	-	-	LQWOD	

##### D. Usage

1. Originating usage in Usage Option Plan A will be billed at the per minute of use rate per channel in use.

	Rate Per Minute of Use	USOC	
(a) Per Minute of Use - Usage Option A	\$0.05	NA	(M)

**Note 1:** As of August 31, 2011, Rate Stability Plans are no longer available for new or renewing subscribers.

**Note 2:** Upon the effective date of LATAwide ELS as specified in A3.1.2, the USOC in (3) shall apply. (M)

**Note 3:** Both voice and data required per B channel access for EWSD. (T)

**Note 4:** Upon the effective date of LATAwide ELS as specified in A3.1.2, the USOC in (4) shall apply. (M)

**Note 5:** Upon the effective date of LATAwide ELS as specified in A3.1.2, this USOC shall apply. (M)

Pages 6.1 and 6.2 are hereby deleted in their entirety and removed from this Guidebook

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## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - Business Service (IBS) (Cont'd)

#### A42.1.4 Rates and Charges (Cont'd)

##### E. Packages

1. Packages EZ1, EZ1A, EZ2 and EZ2A are available for use with IBS on National ISDN lines. The packages will not be available on Custom ISDN lines or lines associated with MultiServ service or MultiServ PLUS service. A credit will be applied to the monthly billing for customers purchasing IBS via one of these packages. Packages must be ordered exactly as stated in the descriptions of the packages. If any feature listed in the package is deleted or provisioning options are changed, the package credit will no longer apply. (M1)  
Additional optional features compatible with the package configurations are allowed with the packages. Additional features may be added only on the User Profile already provisioned with features. (M1)
2. Description of Packages - (M1)
  - a. Package EZ1 - Low Speed DSL, 2 B-channel CSV/CSD - Channel Activation, 2 B-channel CSV/CSD - User Profile, 2 Additional Call Appearances, 1 Conference, Drop, Hold & Transfer, 1 Call Forwarding Variable - Button. (M1)
  - b. Package EZ1A - Low Speed DSL, 2 B-channel CSV/CSD - Channel Activation, 2 B-channel CSV/CSD - User Profile, 2 Additional Call Appearances, 1 Conference, Drop, Hold & Transfer, 1 Call Forwarding Variable - Button, Visual Message Waiting, Call Forwarding Busy Line, Call Forwarding Don't Answer. Voice mail service will be allowed with this package. (M1)
  - c. Package EZ2 - Low Speed DSL, 2 B-channel CSV/CSD - Channel Activation, 2 B-channel CSV/CSD - User Profile, 2 Additional Call Appearances, 1 Conference, Drop, Hold & Transfer, 1 Call Forwarding Variable - Button, 2 Secondary DN's. (M1)
  - d. Package EZ2A - Low Speed DSL, 2 B-channel CSV/CSD - Channel Activation, 2 B-channel CSV/CSD - User Profile, 2 Additional Call Appearances, 1 Conference, Drop, Hold & Transfer, 1 Call Forwarding Variable - Button, 2 Secondary DN's, Visual Message Waiting, Call Forwarding Busy Line, Call Forwarding Don't Answer. Voice Mail service will be allowed with this package. (M1)
3. Packages Rates and Charges (M1)
  - a. Per DSL (M1)
    - (1) Packages - Credit Per DSL (M1)

	Installation Charge	Monthly Credit	USOC	
(a) Package EZ1 Credit	-	\$7.60	LPEO1	(M1)
(b) Package EZ1A Credit	-	8.10	LPE1A	(M1)
(c) Package EZ2 Credit	-	8.10	LPEO2	(M1)
(d) Package EZ2A Credit	-	9.60	LPE2A	(M1)

##### F. Termination Charges

IBS lines placed in service under Rate Stability Plans after the effective date of this *guidebook* will incur a Termination charge at the date of termination if the customer terminates or disconnects the service prior to fulfilling the period of the Rate Stability Plan. Termination Charges will not apply for IBS lines upgrading to another service offered by the Company with a contract period equal to or longer than the existing ISDN contract. (T)(M1)

	Termination Charges	USOC	
1. Termination Charge for 24-59 Mos. Rate Stability Plan if disconnected within:			(M1)
(a) 1-12 Months <sup>1</sup>	\$300.00	LPEB2	(M1)
(b) 13-23 months	200.00	LPEB3	(M1)
(c) 24-58 months	100.00	LPEB4	(M1)
2. Termination Charge for 60-120 Mos. Rate Stability Plan if disconnected within:			(M1)
(a) 1-23 months	300.00	LPEB5	(M1)
(b) 24-59 months	200.00	LPEB6	(M1)
(c) 60-119 months	100.00	LPEB7	(M1)

**Note 1:** This Termination Charge also applies at the date of termination if a customer terminates or disconnects prior to fulfilling the three months minimum service period.

(M2)

M1 - Material appearing on this page previously appeared on page(s) 6.1 and 6.2 of this section.

M2 - Material previously appearing on this page now appears on page(s) 8 of this section.



## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - Business Service (IBS) (Cont'd)

#### A42.1.5 Optional Features

Customers are required to subscribe to IBS before ordering these features. Calling/Called Number Delivery, Calling Name Delivery, and Call Hold are included with this service where facilities permit. Calling numbers/names will be delivered within the common Channel Signaling System 7 serving area unless delivery is blocked by the calling party through Per Line or Per Call Blocking. Features are available to increase the capability of IBS and may be subscribed to on an as needed basis. Availability of Custom ISDN and National ISDN features are limited to where facilities permit and may be limited by central office type and switch load. Features available in A are dependent upon whether the central office is equipped for National ISDN or Custom ISDN. (T)(M1)

Where facilities permit, Call Forwarding features will provide for one calling path. Up to nine (9) additional call forwarding paths may be added with a monthly charge per calling path. (M1)

#### A. Feature Availability

Availability of features as described in 1 and 2 is dependent upon whether the central office is equipped with Custom ISDN or National ISDN. (M1)(T)(M1)

1. Custom ISDN Service allows the purchase of the following Custom ISDN compatible features. National ISDN Service allows the purchase of the following features only for use with EKTS sets. (M1)
  - a. Shared Primary DN - This is a primary DN that appears on one or more terminals. (M1)
  - b. Secondary-Only DN - This is a secondary DN that appears on one or more terminals, but is not the primary DN on any of those terminals. (M1)
  - c. Shared Secondary-Only DN - First Appearance - the first appearance of a secondary DN that appears on more than one terminal but is not the primary DN on any of those terminals. (M1)
  - d. Key Short Hunt - This feature enhances call coverage by delivering key-set DN Short Hunt Capability to standard-feature ISDN Voice terminals. (M1)
  - e. Shared Non-ISDN DN - This feature allows call coverage for an analog set. (M1)
  - f. Privacy Release - This is a privacy feature that allows a customer to specify, on an EKTS group basis, that no other user can bridge on to calls. On a call by call basis, this feature can be disabled to allow bridging to occur. (M1)
  - g. Manual Exclusion - This is the opposite of Privacy Release. On a call by call basis the user can restrict bridging. (M1)
  - h. EKTS Intercom Calling - Dial - This feature allows an EKTS user to call other terminals in the EKTS group with one or two-digit dialing. (M1)
  - i. EKTS Intercom Calling - Automatic - This feature allows an EKTS user to call another terminal in the EKTS group by activating a button on the EKTS set. (M1)
  - j. EKTS Intercom Calling - Call Appearance - This feature allows EKTS Intercom Calling to be provisioned on a Call Appearance. (M1)
2. The following features are available with either Custom ISDN or National ISDN. National ISDN customers may purchase these features for use with either EKTS sets or non-EKTS sets. (M1)
  - a. Call Forwarding Variable - This feature allows the ISDN user to have the ability to forward all incoming calls to a user-specified directory number. (M1)
  - b. Call Forwarding Variable - Feature Button - This feature is the same as Call Forwarding Variable except that it is activated by a feature button. (M1)
  - c. Call Forwarding - Busy Line - This feature automatically routes calls to a preselected number when the called line is busy. This feature may be either fixed (changeable by service order only) or programmable (customer changeable) by station user. If the feature is programmable, the station user may change the destination number and cut the feature on or off via feature activation code. (M1)
  - d. Call Forwarding - Don't Answer - This feature automatically routes calls to a preselected number when the called line does not answer in a preset ringing cycle. This feature may be either fixed (changeable by service order only) or programmable (customer changeable) by station user. If the feature is programmable, the station user may change the destination number and cut the feature on or off via feature activation code. (M1)
  - e. Call Forwarding Multiple Simultaneous - Allows a station line to forward more than one call at a time. (M1)
  - f. Call Pickup - Allows a user to answer calls directed to another line in the same preset Call Pickup Group. (M2)

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - Business Service (IBS) (Cont'd)

#### A42.1.5 Optional Features (Cont'd)

##### A. Feature Availability (Cont'd)

##### 2. (Cont'd)

- g. Conference, Drop, Hold, Transfer - (M1)
  - Conference - allows the user to add a third party to an existing conversation. This feature is for use with voice calls only. (M1)
  - Drop - This central office based feature allows the user to disconnect the last party added to a conference call. (M1)
  - Hold - allows the user to place a call on hold by pressing the function button. Any set with the call appearance for the call on hold can pick up the call by pressing the call appearance button. (M1)
  - Transfer - This feature allows the user to transfer a call to another **Directory Number** (DN). This feature is for use with voice calls only. (T)(M1)
- This feature may require an additional call appearance or an additional DN. (M1)
- h. Six-Way Conference, Drop, Hold, Transfer - This feature has the same functionality as Conference, Drop, Hold, Transfer feature except that six-way conference is allowed. (M1)
- i. Hunting - This feature provides for a predefined search for an idle directory number to which a call can be completed. Directory numbers subscribing to hunting may not have multiple call appearances. (M1)
- j. Speed Calling - This feature allows each user to assign up to thirty telephone numbers to a two-digit code for the purpose of enabling abbreviated dialing. (M1)
- k. Calling/Called Number Delivery/Calling Name Delivery-National ISDN - This feature provides the user who is receiving/originating a call with information about the calling/called party and the facility or destination and is provided with IBS.<sup>1</sup> (M1)
- l. Visual Message Waiting Indicator - Provides the user of a message service with a visual indication that a message is waiting. (M1)
- m. Audible Message Waiting Indicator - Provides the user of a message service with an indication that a message is waiting. (M1)
- n. Additional Call Appearance - PDN or DN - This feature allows the terminal to have more than one DN button assigned to the same DN or Primary Directory Number (PDN). (M1)
- o. Call Tracing - This feature enables the customer to initiate an automatic trace of the last call received. Upon activation by the customer, the network automatically sends a message to the Company's Security Department indicating the calling number, the time the call was received, and the time the trace was activated. The customer using this feature would be required to contact the local business office for further action. (M1)
- p. Call Return - This feature enables a customer to place a call to the telephone number associated with the most recent call received, whether or not the call was answered or the number is known. The customer can dial a code or press a feature button to request that the network place the call. (SESS)

If the called line is not busy, the call is placed. If the called line is busy, a confirmation announcement is heard. Once the customer hangs up, the network will monitor the busy/idle status of both lines every forty-five seconds for up to thirty minutes. If during the queuing process both lines become idle, the customer is alerted that the network is ready to place the call. When the customer picks up the telephone, the call will automatically be placed. If unanswered by the customer the alerting will repeat every five minutes until answered, or for the remainder of the thirty minute monitoring interval. Multiple numbers may be placed in queue. The first idle number will be connected first. Both the customer and the called party may originate and receive calls without affecting the call return feature status.

**Note 1:** Calling numbers/names will be delivered within the Common Channel Signaling System 7 serving area unless delivery is blocked by the calling party through Per Line or Per Call Blocking. (M1)

(M2)

M1 - Material appearing on this page previously appeared on page(s) 8 of this section.

M2 - Material previously appearing on this page now appears on page(s) 10 of this section.

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - Business Service (IBS) (Cont'd)

#### A42.1.5 Optional Features (Cont'd)

##### A. Feature Availability (Cont'd)

##### 2. (Cont'd)

- q. Preferred Call Forwarding - Allows the customer to transfer selected calls to another telephone number. A screening list of up to six numbers is created by the customer and placed in the network memory via an interactive dialing sequence. Subsequently, calls are forwarded to the Call Forwarding telephone number only if the calling number can be obtained and is found to match a number on the screening list. (M1)  
 If the customer also subscribes to Call Block and the same telephone number is entered on both screening lists, the Call Block feature must be deactivated to allow the call to be forwarded. (M1)  
 This feature will not work if the incoming call is from a telephone number in a hunt group unless the telephone number is the main number of the hunt group, or is Telephone Number identified. (M1)
- r. Call Block – This feature provides the customer the ability to prevent incoming calls from up to six different telephone numbers. (M1)  
 A screening list is created by the customer either by adding the last number associated with the line (incoming or outgoing), or by preselecting the telephone numbers to be blocked. When a call is placed to the customer's number from a number on the screening list, the caller receives an announcement indicating that the party he is attempting to call does not wish to receive calls at this time. (M1)  
 If the customer also subscribes to Preferred Call Forwarding and/or Call Selector and the same telephone numbers appear on those screening lists, Call Block will take precedence. (M1)  
 This feature will not work if the incoming call is from a telephone number in a hunt group unless the telephone number is the main number of the hunt group, or is Telephone Number identified. (M1)
- s. Call Selector - This feature provides an alerting to the subscribing customer for up to six specific telephone numbers. (M1)  
 The customer creates a screening list of up to six telephone numbers through an interactive dialing sequence. When a call is received from one of the predetermined telephone numbers, the customer is alerted. Calls from the telephone numbers not included on the screening list will produce a normal ring. (M1)  
 When a telephone number on the Call Selector screening list also appears on the Preferred Call Forwarding list, the Preferred Call Forwarding will take precedence. Likewise, when the same number is shown on the Call Block list, the call will be blocked.  
 The customer's line will not produce an alert if the incoming call is from a telephone number in a Hunt Group unless the telephone number is the main number of the hunt group, or is Telephone Number identified.
- u. Repeat Dialing  
 Repeat Dialing, when activated, automatically redials the last number the customer attempted to call. If the called line is not busy, the call will be placed.  
 If the called line is busy, a confirmation announcement is heard, the customer hangs up and a queuing process begins. For the next thirty minutes both the calling and called lines are checked periodically for availability to complete the call. If during this queuing process the called line becomes idle, the customer is alerted that the network is ready to place the call. When the customer picks up the telephone, the call will automatically be placed.
- v. Automatic Line/Direct Connect  
 Station specially programmed to dial specific internal station number or "0" or the attendant when the station user goes off-hook.
- w. Make Set Busy  
 Provides the individual station user the option of making the line or directory number appear busy/unavailable to incoming calls. The All Calls feature enables the user to make the line appear busy to all types of incoming calls. The Intragroup feature makes the line appear busy to Intragroup calls with external calls not blocked.
- x. Selective Call Acceptance  
 Allows customers to accept incoming voice calls only from certain telephone numbers selected by the customer. (M2)

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M1 - Material appearing on this page previously appeared on page(s) 9 of this section.

M2 - Material previously appearing on this page now appears on page(s) 11 of this section.

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - Business Service (IBS) (Cont'd)

#### A42.1.5 Optional Features (Cont'd)

- A. Feature Availability (Cont'd) (M1)
  - 2. (Cont'd) (M1)
    - y. Station Restriction (M1)
 

Allows a station line to be assigned various types of restriction. (M1)

      - Denied Termination allows the station line to be used for outgoing calls only. It cannot receive incoming calls. All incoming calls are routed to common intercept announcement. (M1)
      - Denied Origination from Outgoing Calls allows the station line to be used for incoming calls only. No outgoing calls can be originated from it. (M1)
    - z. Call Park/Call Retrieve (M1)
 

The Call Park feature allows a user, active on a call, to park a call against the user's DN. When parked, the call is in a state similar to Hard Hold. After being parked, the call can be retrieved by the user. (M1)
    - aa. Redirected Number Feature – Redirected number delivery may be provided as a terminating feature. If the received call has been previously forwarded, the first and last forwarding DN's will be delivered to the called party who subscribes to redirected number delivery unless delivery is blocked by the calling party through Per Line or Per Call Blocking. (M1)
    - ab. Call Transfer System Exception (M1)
 

This feature allows the user to have Call Transfer capabilities that differ from the capabilities established for the customer group. The different capabilities may include the type of call that can be transferred and/or the destination to which it can be transferred. (M1)
    - ac. Dial Call Waiting (M1)
 

The Dial Call Waiting feature provides the ability for originating main station lines to invoke Call Waiting service on selected Intragroup calls by dialing an access code followed by the extension number of the main station line to be call waited. (M1)

(M2)

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## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - Business Service (IBS) (Cont'd)

#### A42.1.5 Optional Features (Cont'd)

##### B. Rates and Charges

##### 1. Optional Features

	Installation Charge	Month To Month	Rate Stability <sup>1</sup> Monthly Rate		USOC	
			24-59 Mos. Plan	60-120 Mos. Plan		
a. Feature for use with EKTS CPE Circuit Switched Voice/Circuit Switched Data						(M1)
(1) Shared Primary DN - First appearance on each additional terminal						(M1)
(a) Each	\$2.00	\$4.00	\$2.75	\$1.50	DS1FJ	(M1)
(2) Secondary Only DN (Shared or Non-Shared) - First appearance						(M1)
(a) Each	2.00	4.00	2.75	1.50	LLDSF	(M1)
(3) Shared Secondary Only DN - First appearance on each additional terminal						(M1)
(a) Each	2.00	4.00	2.75	1.50	DS1F1	(M1)
(4) Key Short Hunt (DMS 100)						(M1)
(a) Each	2.00	-	-	-	DS1KS	(M1)
(5) Key Set Music on Hold (DMS 100)						(M1)
(a) Each	2.00	-	-	-	DS1MH	(M1)
(6) Shared Non-ISDN DN <sup>2</sup>						(M1)
(a) Each	2.00	4.00	2.75	1.50	DOE	(M1)
(7) Privacy Release (5ESS/DMS)						(M1)
(a) Per Shared DN	2.00	.50	.40	.25	DS1FU	(M1)
(8) Manual Exclusion						(M1)
(a) Per Shared DN	2.00	.50	.40	.25	DS1FM	(M1)
(9) EKTS Intercom Calling - Dial						(M1)
(a) Each member	2.00	3.00	2.05	1.10	DS1FE	(M1)
(10) EKTS Intercom Calling - Automatic						(M1)
(a) Each member	2.00	3.00	2.05	1.10	DS1FD	(M1)
(11) EKTS Intercom Calling - Call Appearance						(M1)
(a) Each member	2.00	3.00	2.05	1.10	M61FX	(M1)
<b>Note 1:</b> As of August 31, 2011, Rate Stability Plans are no longer available for new or renewing subscribers.						(M1)
<b>Note 2:</b> Due to current technological limitations, this feature may not be available in some locations.						(M1)
						(M2)

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M1 - Material appearing on this page previously appeared on page(s) 11 of this section.

M2 - Material previously appearing on this page now appears on page(s) 13 and 14 of this section.

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - Business Service (IBS) (Cont'd)

#### A42.1.5 Optional Features (Cont'd)

##### B. Rates and Charges (Cont'd)

(T)

##### 1. Optional Features (Cont'd)

##### b. Optional Circuit Switched Features for use with non-EKTS or EKTS CPE (Cont'd)

	Installation Charge	Month To Month	Rate Stability <sup>1</sup> Monthly Rate		USOC	
			24-59 Mos. Plan	60-120 Mos. Plan		
(1) Call Forwarding Variable <sup>2</sup>						(T)(M1)
(a) Voice or Voice/Data - per user profile <sup>3</sup>	\$2.00	\$3.00	\$2.05	\$1.10	LLNCV	(T)(M1)
(b) Data - per DN (5ESS/EWSD)	2.00	3.00	2.05	1.10	LLOCD	(M1)
(2) Call Forwarding Variable - Feature Button (5ESS)						(M1)
(a) Voice - per PDN	2.00	3.00	2.05	1.10	GJXCF	(M1)
(b) Data - per PDN	2.00	3.00	2.05	1.10	LLPCD	(M1)
(3) Call Forwarding Busy Line <sup>2,3</sup>						(M1)
(a) Voice or Voice/Data - per user profile <sup>3</sup>	2.00	2.50	1.55	.60	LLQCV	(M1)
(b) Data - per DN (5ESS/EWSD)	2.00	2.50	1.55	.60	LLRCD	(M1)
(4) Call Forwarding Busy Line - Programmable <sup>2,4</sup>						(T)(M1)
(a) Voice or Voice/Data - per user profile <sup>3</sup>	2.00	2.50	1.55	.60	M6AVA	(T)(M1)
(b) Data - per DN (5ESS/EWSD)	2.00	2.50	1.55	.60	M6ADF	(M1)
(5) Call Forwarding Don't Answer <sup>2</sup>						(M1)
(a) Voice or Voice/Data - per user profile <sup>3</sup>	2.00	2.50	1.55	.60	LLSCV	(T)(M1)
(b) Data - per DN (5ESS/EWSD)	2.00	2.50	1.55	.60	LLUCD	(M1)
(6) Call Forwarding Don't Answer - Programmable <sup>2,5</sup>						(M1)
(a) Voice or Voice/Data - per user profile <sup>3</sup>	2.00	2.50	1.55	.60	M6BVA	(T)(M1)
(b) Data - per DN (5ESS/EWSD)	2.00	2.50	1.55	.60	M6BDF	(M1)
(7) Call Forwarding Multiple Simultaneous <sup>2,6</sup>						(M1)
(a) Voice or Voice/Data - per user profile <sup>3</sup>	2.00	3.00	2.05	1.10	M6CV5	(T)(M1)
(b) Data - per DN (5ESS/EWSD)	2.00	3.00	2.05	1.10	M6CD5	(M1)
(8) Call Pickup						(M1)
(a) Per group	2.00	4.00	2.75	1.50	LLVCG	(M1)
(b) Per member	2.00	2.00	1.00	.50	LLXCM	(M1)

**Note 1:** As of August 31, 2011, Rate Stability Plans are no longer available for new or renewing subscribers.

**Note 2:** Feature to be applied per DN to be forwarded on 5ESS and/or EWSD

**Note 3:** Voice/Data for use only with DMS.

(T)(M1)

**Note 4:** Call Forwarding Busy Line - Programmable may not be assigned to the same DN as Call Forwarding Busy Line.

(T)(M1)

**Note 5:** Call Forwarding Don't Answer - Programmable may not be assigned to the same DN as Call Forwarding Don't Answer.

(M1)

**Note 6:** Use to add additional paths to the call forwarding features. Will apply to each additional path, up to nine, (9), per call forwarding feature.

(M1)

(M2)

Page 13.1 is hereby deleted in its entirety and removed from this Guidebook

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M1 - Material appearing on this page previously appeared on page(s) 11, 11.1 and 12 of this section.

M2 - Material previously appearing on this page now appears on page(s) 15 of this section.

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - *Business Service (IBS)* (Cont'd)

(T)

#### A42.1.5 Optional Features (Cont'd)

(M)

#### B. Rates and Charges (Cont'd)

(T)(M)

##### 1. Optional Features (Cont'd)

(M)

##### b. Optional Circuit Switched Features for use with non-EKTS or EKTS CPE (Cont'd)

(M)

	Installation Charge	Month To Month	Rate Stability <sup>1</sup> Monthly Rate		USOC	
			24-59 Mos. Plan	60-120 Mos. Plan		
(9) Conference, Drop, Hold and Transfer <sup>5</sup>						(T)(M)
(a) Per user profile	\$2.00	\$ 3.00	\$2.05	\$1.10	DS1FN	(M)
(10) Six-Way Conference, Drop, Hold and Transfer <sup>5</sup>						(T)(M)
(a) Per user profile	2.00	12.00	9.50	7.00	LLY6P	(M)
(11) Hunt Group - Voice or Voice/Data <sup>4</sup>						(M)
(a) Per flat rate line (Rates as specified in A13.8 apply)	-	-	-	-	HTG	(M)
(12) Hunt Group - Data (5ESS/EWSD)						(M)
(a) Per line - Data (Rates as specified in A13.8 apply)	-	-	-	-	HTGSD	(M)
(13) Speed Calling						(M)
(a) Per user profile	2.00	4.00	2.75	1.50	LLZSU	(M)
(14) Visual Message Waiting Indicator						(M)
(a) Per PDN	2.00	.50	.40	.25	LLAVP	(M)
(15) Audible Message Waiting Indicator (5ESS/EWSD)						(M)
(a) Per PDN	2.00	.50	.40	.25	MWW	(M)
(16) Additional Call Appearance, PDN or DN <sup>6</sup>						(T)(M)
(a) Each	2.00	2.00	1.00	.50	DS1FG	(M)
(17) Call Tracing						(M)
(a) Per user profile <sup>7</sup>	2.00	4.50	3.25	2.00	NST	(T)(M)
(b) Per successful trace, per occasion	1.00	-	-	-	NA	(M)
(c) Denial of Per Activation	-	-	-	-	HBG	(M)
(18) Call Return (5ESS/EWSD)						(M)
(a) Per user profile <sup>7</sup>	2.00	4.00	2.75	1.50	NSS	(T)(M)
<b>Note 1:</b> As of August 31, 2011, Rate Stability Plans are no longer available for new or renewing subscribers.						(M)
<b>Note 2:</b> Feature to be applied per DN to be forwarded on 5ESS and/or EWSD.						(M)
<b>Note 3:</b> Call Forwarding Busy Line - Programmable may not be assigned to the same DN as Call Forwarding Busy Line.						(M)
<b>Note 4:</b> Voice/Data for use only with DMS.						(M)
<b>Note 5:</b> Only one type of Conference, Drop, Hold and Transfer is allowed per terminal.						(T)(M)
<b>Note 6:</b> Additional Call Appearances on PDN or Secondary Only DN - First Appearance will appear on all sets where these numbers appear.						(T)(M)
<b>Note 7:</b> Feature to be applied per DN on EWSD.						(T)(M)

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.1 ISDN - *Business Service (IBS)* (Cont'd)

(T)

#### A42.1.5 Optional Features (Cont'd)

(M)

#### B. Rates and Charges (Cont'd)

(T)(M)

##### 1. Optional Features (Cont'd)

(M)

##### b. Optional Circuit Switched Features for use with non-EKTS or EKTS CPE (Cont'd)

(M)

	Installation Charge	Month To Month	Rate Stability <sup>1</sup> Monthly Rate		USOC	
			24-59 Mos. Plan	60-120 Mos. Plan		
(19) Preferred Call Forwarding						(M)
(a) Per user profile <sup>2</sup>	\$2.00	\$3.00	\$2.05	\$1.10	NCE	(M)
(20) Call Block						(M)
(a) Per user profile <sup>2</sup>	2.00	4.00	2.75	1.50	NSY	(M)
(21) Call Selector						(M)
(a) Per user profile <sup>2</sup>	2.00	3.00	2.05	1.10	NSK	(M)
(22) Repeat Dialing (5ESS/EWSD)						(M)
(a) Per user profile <sup>2</sup>	2.00	4.00	2.75	1.50	NSQ	(M)
(23) Automatic Line/Direct Connect						(M)
(a) Per DN Per Terminal (5ESS/DMS)	2.00	1.00	.75	.50	M6GN9	(M)
(24) Make Set Busy						(M)
(a) Per PDN (DMS)	1.00	1.00	.75	.50	M6MPD	(M)
(25) Selective Call Acceptance						(M)
(a) Per user profile (5ESS/DMS)	1.00	3.00	2.05	1.10	M6K16	(M)
(26) Station Restriction - Denied Origination <sup>2</sup>						(M)
(a) Per user profile	1.00	1.00	.75	.50	M6LOA	(M)
(27) Station Restriction - Denied Termination <sup>2</sup>						(M)
(a) Per user profile	1.00	1.00	.75	.50	M6LTA	(M)
(28) Redirecting Number Delivery – No Rate (Provisioning USOC: DS1RD)						(M)
(29) Call Park/Call Retrieve <sup>2,3</sup>						
(a) Per user profile (5ESS/DMS)	2.00	1.00	.75	.50	M6HP6	(M)
(30) Call Transfer System Exception <sup>3</sup>						(M)
(a) Per user profile (DMS)	1.00	1.00	.75	.50	M6QTD	(M)
(31) Dial Call Waiting <sup>3</sup>						(M)
(a) Per user profile (5ESS/EWSD)	1.00	1.00	.75	.50	M6JNF	(M)
(32) Make Set Busy – Intragroup <sup>3</sup>						(M)
(a) Per user profile (DMS)	1.00	1.00	.75	.50	M6MGD	(M)
<b>Note 1:</b> As of August 31, 2011, Rate Stability Plans are no longer available for new or renewing subscribers.						(M)
<b>Note 2:</b> Feature to be applied per DN or EWSD.						(M)
<b>Note 3:</b> This feature is available only on lines associated with MultiServ service or MultiServ PLUS service.						(M)



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**A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)**

**A42.2 ISDN - Residence Service (IRS) (Obsoleted, see Section A142)**

(T)

**Pages 17 through 23 are hereby deleted in their entirety and removed from this Guidebook**

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## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.3 Primary Rate ISDN

#### A42.3.1 General

- A. Primary Rate ISDN is an intraLATA offering supported by the Integrated Services Digital Network (ISDN) architecture.
- B. Primary Rate ISDN provides an ISDN based, DS1 access to the telecommunications network and includes the flexibility of integration of multiple voice and/or data transmission channels on the same line. The service will provide connectivity between ISDN compatible CPE and a serving central office. The Service may not be installed at a carrier hotel, a collocation cage, or any similar location. The basic channel structure for Primary Rate ISDN is twenty-three 64 Kbps B-Channels and one 64 Kbps D-Channel. The customer has the option to activate up to 23 B-Channels on the first Primary Rate ISDN arrangement and up to 24 channels on additional Primary Rate ISDN arrangements. A Digital Data Only option<sup>1</sup> and an Inward Data Option are also available. The 23 B-Channels can be used to connect the customer's CPE to the Public Circuit Switched Network, e.g., outward, inward and 2-way network access. Calling Number Delivery, Called Number Delivery (Direct Inward Dialing), Outgoing Calling Name Delivery, and Hunting functionality are inherent to this service. Incoming Calling Name Delivery, an optional feature offered at rates listed in A42.3.4.D.5 is available in switch types where equipped. Redirecting Number, an optional feature described in A42.3.3, is offered at no charge to the customer in switch types where equipped. Telephone numbers for use on Primary Rate ISDN are available in this Section. One Listing will be furnished at no charge for each Primary Rate ISDN B-Channel. Additional listings can be obtained as specified in Section A6.
- C. Primary Rate ISDN provides capability for the transmission of digital signals only. Clear Channel Capability and Extended Superframe Format are inherent to the service.
- D. Primary Rate ISDN is provided within a LATA from wire centers where appropriate ISDN facilities are available as determined by the Company. Special Construction charges may apply as specified in Section A5.
- E. Primary Rate ISDN Access Lines furnished between a serving wire center and a customer's premises will be offered at a non-distance sensitive rate per Primary Rate ISDN Access Line. If a customer wishes to utilize another Company provided transport facility (e.g., SMARTRing service) that can meet the required standards to carry the Primary Rate ISDN Access (DS1) Line, the customer will incur no charge for the Primary Rate ISDN Access (DS1) Line. MegaLink service cannot be utilized to provide transport for Primary Rate ISDN except where the Primary Rate ISDN is terminated in FlexServ service. (C)
- F. Interoffice Channels furnished between central offices will be charged at rates based on airline distance between the central offices, except as provided in A42.3.2.U.
- G. Airline distance between Company central offices shall be developed using the methodology found in B3.3.3. Fractional mileage shall be rounded up to the next full mile.
- H. The required components for Primary Rate ISDN are as follows:
  - Primary Rate ISDN Access Line where applicable
  - Interoffice Channels where applicable
  - Primary Rate ISDN Interface
  - Primary Rate ISDN B-Channels
  - Primary Rate ISDN D-Channel
  - Telephone Numbers
  - Call Types
- I. The optional offering of Incoming Call Extension (ICE) provides the capability for Primary Rate ISDN customers to retain serving wire center telephone numbers for incoming analog services when their existing analog services are converted to Primary Rate ISDN. ICE is only available when the Primary Rate ISDN is provided from a central office switch other than the one providing the converting analog services. ICE can also be used to provide additional serving wire center telephone numbers to an existing ICE arrangement. Rates and charges are applicable per telephone number or per path. Customers subscribing to ICE may be required to make CPE software modifications to translate dialed telephone numbers to terminated telephone numbers. Hunting between ICE telephone numbers is not allowed. ICE is only available within the Local Calling Area. If the customer's Serving Central Office and the ANSA office are in the same rate center then the customer would purchase ICE-SRC (Same Rate Center) telephone numbers. If the customer's Serving Central Office and the ANSA office are in different rate centers then customers would purchase ICE-DRC (Different Rate Center) numbers.

**Note 1:** Effective May 1, 2014, customers may not add the Digital Data Only option, and existing term plans for this option may not be renewed.

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.3 Primary Rate ISDN (Cont'd)

#### A42.3.1 General (Cont'd)

(M1)

- J. Primary Rate ISDN B-Channel rates for the Voice/Data (Standard) option are listed in A42.3.4.C. Exchange access is included as a part of the B-Channel rate on a flat rate basis only.
- K. Primary Rate ISDN B-Channel rates for the Digital Data Only<sup>1</sup> option are listed in A42.3.4.C. Exchange access is included as a part of the B-Channel rate on a flat rate basis only.
- L. Primary Rate ISDN B-Channel rates for the Inward Data option are listed in A42.3.4.C. Exchange access is included as a part of the B-Channel on a flat rate basis only.
- M. The Primary Rate ISDN Inward Data option is characterized by the following:
  - 1. It is arranged for inward service only. Originating Calls will be denied.
  - 2. It is arranged to terminate analog and digital data calls only.
  - 3. The number of telephone numbers associated with a Primary Rate ISDN Inward Data Option arrangement must be equal to, or less than, the number of Primary Rate ISDN Inward Data Interfaces comprising the arrangement and all numbers must use the same routing unless the customer subscribes to additional numbers as stated in A42.3.4.C.7. This restriction does not apply to Inward Data Extended Reach Service.
  - 4. Calling Number Delivery, Called Number Delivery, and Hunting are inherent to the service.
- N. Voice calls on the B-Channel may be completed to both ISDN and non-ISDN lines.
- O. Digital Data Transmission on the B-Channel will be circuit switched at 64 Kbps within the switch and between ISDN compatible central offices. ISDN interconnection to non-ISDN equipped central offices may be subjected to analog transmission or sub-rated to 56 Kbps.
- P. Primary Rate ISDN Extended Reach Service (ERS) is available only for the Inward Data Option. ERS is designed to "extend the reach" of the Inward Data Option customer from a centrally located metropolitan local calling area into the areas of the LATA which are "non-local" to the metropolitan area. The ERS customer purchases telephone numbers within each desired "non-local" calling area to allow their clients to call them without incurring intraLATA Long Distance Message Telecommunications Service charges.
  - 1. ERS is offered under two configurations: (1) A Dedicated Route Arrangement, and (2) A Final Route Arrangement. The ERS Dedicated Route Arrangement is only available where the target local calling area(s) have an ISDN equipped central office. It is intended for use where the volume of traffic is sufficient to warrant one or more dedicated DS1 interoffice facilities. The ERS Final Route Arrangement will be utilized where the target local calling area(s) do not have an ISDN equipped central office and/or the volume of traffic is insufficient to justify a dedicated DS1 interoffice facility.
  - 2. For ERS Dedicated Route Arrangements the customer must purchase ERS Remote Telephone Numbers (RTNs), ERS Primary Rate Interfaces, and ERS B-Channels in the target local calling area(s). The ERS Primary Rate Interfaces and ERS B-Channels are extended to the customer's premises (typically in a centrally located metropolitan area, but in the same LATA as the target local calling area) via ERS Interoffice Channels and a Primary Rate ISDN Access Line or other Company provided transport facility.
  - 3. For ERS Final Route Arrangements the customer must purchase ERS RTNs in the target local calling area(s). Calls that terminate to these RTNs are switched over intraLATA toll message trunk groups to the customer's local serving central office where they terminate on ERS Final Route Primary Rate Interfaces and ERS Final Route B-Channels, via an ERS Final Telephone Number (FTN). A Primary Rate ISDN Access Line or other Company provided transport facility is required for connection to the customer's local serving central office.
  - 4. Calls may be overflowed from an ERS Dedicated Route Arrangement to an ERS Final Route Arrangement by utilizing the Overflow Feature for ERS Dedicated Route Arrangements. When all facilities are busy on the Customer's Dedicated Arrangement from a particular target local calling area, the Overflow Feature allows additional calls to be switched over intraLATA toll message trunk groups to the customer's local serving central office, where they terminate on ERS Final Route Primary Rate Interfaces and B-Channels, via an ERS FTN. A Primary Rate ISDN Access Line or other Company provided transport facility is required for connection to the customer's local serving central office.
  - 5. ERS is jointly provided with other telephone companies only where technically feasible and where mutually agreed upon by the telephone companies involved.

(M2)

(M2)

**Note 1:** Effective May 1, 2014, customers may not add the Digital Data Only option, and existing term plans for this option may not be renewed.

**Page 25.1 is hereby deleted in its entirety and removed from this Guidebook**

M1 - Material previously appearing on this page now appears on page(s) 24 of this section.

M2 - Material appearing on this page previously appeared on page(s) 26 of this section.

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.3 Primary Rate ISDN (Cont'd)

#### A42.3.1 General (Cont'd)

- Q.** Calling Name/Number Delivery provides the user who is receiving a call with information about the calling party. Calling names/numbers will be delivered within the Common Channel Signaling System 7 serving area unless delivery is blocked by the customer's equipment.

#### A42.3.2 Terms and Conditions

- A.** Primary Rate ISDN is available on a month-to-month basis or under variable rate periods, with rates based on lengths of twelve to twenty-three months, twenty-four to forty-eight<sup>1</sup> months or forty-nine<sup>1</sup> to seventy-two<sup>1</sup> months under conditions specified in the Channel Services Payment Plan (CSPP) in B2.4 of the Private Line Guidebook and as stated following:
1. A volume discount schedule is available to customers under month to month or contract rates as described in A42.3.4.E. A rate discount for Primary Rate ISDN Interfaces is calculated based upon the quantity of Primary Rate ISDN Interfaces on a billing account. In addition, a discount for Primary Rate ISDN B-Channels is calculated based upon the number of Primary Rate ISDN B-Channels on a billing account.
  2. A Termination Charge is applicable, except as provided in 3, if service is terminated prior to expiration of the contract. The applicable charge is equal to fifty percent (50%) of the monthly charges times the number of months remaining in the contract.
  3. A Termination Liability Charge shall not apply for the termination of B-Channels.
  4. **At any time during** a CSPP contract or an existing term extension as provided in this paragraph, in addition to the Renewal Options stated in B2.4.9.A.7., customers may extend their CSPP contract with the same rates, terms and conditions for an additional 12-, 24- or 36-months. Term extensions may include associated transport rate elements as provided in A42.3.4. However, term extensions are not available for other Company provided transport facilities services being utilized to provide Primary Rate ISDN, as described in A42.3.1.E. The availability of this term extension option at any time is subject to the Company's right to discontinue or to otherwise change this option. Customers who exercise the term extension are not entitled to a different rate based on the overall term as extended (e.g., customers who initially have a 36-month CSPP and extend it by an additional 24 months are not entitled to the rates allowed under a 60-month CSPP). An extension will begin on the expiration date of the existing CSPP or term extension. The customer will be required to sign an addendum to their CSPP contract for each term extension. (C)  
 During the 12-, 24- or 36-month contract extension period(s), the customer may terminate the service, or any service components, at any service location on thirty (30) days' notice without incurring a Termination Liability Charge.  
 Terms outlined in the Private Line Guidebook, paragraph B2.4.9 A.2.a, disallowing any Company-initiated rate increases for the duration of either the 12-, 24-, or 36-month Service Term, do not apply to 12-, 24- or 36-month Service Term extension rates. AT&T reserves the right to change 12-, 24- or 36-month Service Term extension rates (increase or decrease) at any time. Pursuant to applicable requirements, the Customer will be notified in advance of any price increases to their 12-, 24- or 36-month Service Term contract extension rates.
  5. Upon expiration of the CSPP, if customer has not entered into a new CSPP contract (per Private Line Guidebook, Paragraph B2.4.9.A.7.a.(1) ), or term extension (per Paragraph 4.):
    - for customer contracts expiring prior to December 1, 2017, continue service at the Month-to-Month price then currently in effect for the Month-to-Month Payment Plan, or
    - for customer contracts expiring on or after December 1, 2017, continue service at the Monthly Extension rates in effect at the time the CSPP contract expires until the customer cancels or renews the service with a new CSPP contract. Subsequently, customers under the Monthly Extension rates may convert their existing service to either a 12- 24-or 36-month CSPP at the then current rates. The customer will not be assessed any associated non-recurring charges as long as the physical serving arrangement does not change.
 Monthly Extension rates are equal to one hundred fifty percent (150%) of the customer's expiring contractual rate.;
  6. If Customer migrates a Primary Rate ISDN service or service component (the "Terminated ILEC Service") to a qualifying AT&T Business Voice over IP (BVoIP) Service, then AT&T will waive the Termination Liability Charge associated with the Terminated ILEC Service if:
    - a. the Terminated ILEC Service has been installed at the Customer site for no fewer than 12 months, and
    - b. the replacement AT&T BVoIP Service is installed or available at the same Customer sites as the Terminated ILEC Service.

It is at the Company's sole determination whether a product change satisfies these requirements.

**Note 1:** Effective October 1, 2013, customers may not establish new term plans greater than 36 months for Primary Rate ISDN, and existing term plans greater than 36 months may not be renewed or extended for a term greater than 36 months.

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.3 Primary Rate ISDN (Cont'd)

(M)

#### A42.3.2 Terms and Conditions (Cont'd)

(T)(M)

- B. Nonrecurring charges associated with the Primary Rate ISDN Access Line or Interoffice Channel facilities will not be applicable when upgrading from an existing MegaLink service to Primary Rate ISDN. A Service Change Charge as specified in A42.3.4.G will be applicable for the MegaLink service upgrade in addition to nonrecurring charges for other Primary Rate ISDN rate elements ordered. (M)
- C. No nonrecurring charges will be applicable when converting MegaLink ISDN service to Primary Rate ISDN or for converting from one Primary Rate ISDN option to another, e.g. Voice/Data to Inward Data or Inward Data to Inward Data Extended Reach Service (ERS). The term "conversion" means that the Primary Rate Interface(s) remain in place in the same central office. If the Primary Rate Interface(s) are moved in connection with ERS, the change is considered a rearrangement and terms and conditions stated in D are applicable. No termination charges are applicable for conversions when:
  - 1. The contract selected for the new Primary Rate ISDN arrangement is coterminous with the previous contract or is for a 24 month period, whichever is longer, and (M)
  - 2. The service orders to disconnect the previous arrangement and to install the new Primary Rate ISDN arrangement are related together and received by the Company at the same time with no lapse in billing of service. (M)
- D. Rearrangement charges stated in A42.3.4.G are applicable for moves of Primary Rate Interfaces from one central office to another in connection with the initial installation of Inward Data ERS or for subsequent moves of Primary Rate Interfaces from one central office to another for ERS Final or Dedicated arrangements. Termination Liability charges are not applicable if the number of Primary Rate Interfaces is not reduced. (M)
- E. Upgrades, from a MegaLink service and/or a MegaLink channel service contract arrangement, are permitted with no Termination Liability when:
  - 1. A new contract is selected for the Primary Rate ISDN equal to or greater in length than the arrangement being terminated, and (M)
  - 2. The service orders to disconnect the MegaLink channel service arrangement and to install the Primary Rate ISDN are related together and received by the Company at the same time with no lapse in billing of service. (M)
- F. Conversions from an existing MegaLink ISDN channel service contract arrangement to a Primary Rate ISDN contract or conversions from one Primary Rate ISDN option to another, e.g., Voice/Data to Inward Data, are permitted with no Termination charges applicable when:
  - 1. The contract selected for the new Primary Rate ISDN arrangement is coterminous with the previous contract or is for a 24 month period, whichever is longer, and (M)
  - 2. the service orders to disconnect the previous arrangement and to install the new Primary Rate ISDN arrangement are related together and received by the Company at the same time with no lapse in billing of service. (M)
- G. The minimum subscription period for which month-to-month Primary Rate ISDN is furnished and for which charges are applicable is one month. (M)
- H. Unless otherwise specified, the **terms and conditions** for Primary Rate ISDN stated herein apply in addition to the **terms and conditions** set forth in Section A2. (T)(M)
- I. Customer Premises Equipment (CPE) that is compatible with the Primary Rate ISDN interface is the responsibility of the customer. (M)
- J. The Company shall not be responsible if changes in any of the equipment, operations, or procedures of the Company utilized in the provisioning of Primary Rate ISDN render any facilities provided by the customer obsolete, or require modification or alteration of such equipment or system, or otherwise affect its use or performance. Digital transmission rates at speeds less than those indicated may be accomplished as a function of the particular CPE furnished by the customer. (M)
- K. Suspension of service is not allowed. (M)
- L. **Terms and conditions** for Allowance of Interruptions apply as specified in Section B2 of the Private Line Guidebook. (T)(M)
- M. Service Charges in Section A4 do not apply. (M)
- N. Hunting functionality and Called Number Delivery (Direct Inward Dialing) are inherent to Primary Rate ISDN and charges do not apply (M)
- O. Customized Code Restriction rates and Selective Class of Call Screening rates do not apply. (M)
- P. Foreign Exchange Rates do not apply. (M)
- Q. (DELETED) (M)
- R. Calling telephone numbers transmitted via the Primary Rate ISDN are intended solely for the use of the Primary Rate ISDN subscriber. Resale of this information is prohibited except the caller's telephone numbers may be provided to the subscriber's client for those calls sponsored or provided by that client where the client's identity is disclosed to the caller and the client agrees not to distribute such information to others. (M)

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.3 Primary Rate ISDN (*Cont'd*)

(T)

(M1)

(M2)

#### A42.3.2 Terms and Conditions (*Cont'd*)

- S. Calling numbers will be delivered within the Common Channel Signaling System 7 serving area unless delivery is blocked by the calling party through Per Line or Per Call Blocking. (M2)
- T. Non-facility Associated Signaling (NFAS) provides the capability to control multiple DS1s with a single D-Channel. This feature can be ordered where switch capabilities exist as stipulated in the vendor technical documentation and where switch capacity exists. When NFAS is selected, the customer will order one Primary Rate ISDN arrangement with one D-Channel and up to 23 B-Channels. Additional Primary Rate ISDN arrangements are ordered with up to 24 B-Channels at rates and charges provided in A42.3.4. The D-Channel activated on the initial arrangement serves the additional Primary Rate ISDN arrangements. If the customer desires, he may also request a back-up D-Channel with the NFAS option. The Voice/Data (Standard) Primary Rate ISDN and Digital Data Only option<sup>1</sup> Primary Rate ISDN arrangements may not be mixed in the same NFAS group. (M2)
- U. Primary Rate ISDN is available from central offices equipped for Primary Rate ISDN. Primary Rate ISDN is also available to customers served by certain offices not equipped for Primary Rate ISDN. In situations in which a subscriber is located in the flat rate calling area of a Primary Rate ISDN equipped office (host office), Primary Rate ISDN will be furnished from the host office without the application of interoffice channel charges. Primary Rate ISDN customers to be served under this arrangement must sign an agreement that the service may be moved back at the Company's discretion to the normal serving central office and to a probable number change when/if that office is equipped with ISDN. If a customer requests Primary Rate ISDN from an ISDN equipped central office other than that determined by the Company, interoffice channel charges as specified in A42.3.4.B will apply. Also, if a subscriber's normal serving office is equipped with Primary Rate ISDN and, the subscriber requests service from another office, interoffice channel charges as specified in A42.3.4.B will apply. ANSA does not apply for Inward Data Extended Reach Service. (M2)
- V. The Primary Rate ISDN - Digital Data Only option<sup>1</sup> provides for the transmission of data mode calls only. The Primary Rate ISDN - Digital Data Only arrangement will be provisioned with the customer's requested number of Digital Data Only B-channels with no B-channels capable of transmitting voice mode calls in the same arrangement. (M2)
- W. The Primary Rate ISDN Inward Data option provides for the transmission of inward analog and digital data calls only. (M2)
- X. **Terms and conditions** in Section A2 prohibiting the mixing of flat and message or flat and measured service do not apply for Primary Rate ISDN. (T)(M2)
- Y. No usage charges apply for Primary Rate ISDN calls within the basic local calling area. Usage charges as specified in A3.3.3 apply for Primary Rate ISDN calls terminated outside the basic local calling area but within the expanded local service area. The Company IntraLATA Long Distance Service rates apply for intraLATA calls terminated beyond the local calling area. Rates for the Company's IntraLATA Long Distance Service can be viewed at the following internet address: <http://cpr.att.com/> (see North Carolina Non-Regulated Services Pricing). (M2)
- Z. The Next Route Index Feature allows a Primary Rate ISDN Digital Data Only<sup>1</sup> customer to arrange analog calls to overflow to a Voice/Data arrangement in the same switch or allows the customer to overflow analog and digital calls to a Voice/Data arrangement in the same switch. These same capabilities are available to a Primary Rate ISDN Inward Data customer to overflow calls to a Voice/Data arrangement in the same switch. It does not allow Voice/Data or Inward Data calls to overflow to a Digital Data Only arrangement nor does it allow Voice/Data or Digital Data Only calls to overflow to an Inward Data arrangement. (M2)

**Note 1:** Effective May 1, 2014, customers may not add the Digital Data Only option, and existing term plans for this option may not be renewed. (M2)

M1 - Material previously appearing on this page now appears on page(s) 24 of this section.

M2 - Material appearing on this page previously appeared on page(s) 30.1 of this section.

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**A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)****A42.3 Primary Rate ISDN (Cont'd)****A42.3.2 Terms and Conditions (Cont'd)**

- AA.** Primary Rate ISDN Digital Data Only<sup>1</sup> Signaling Groups may be configured in one of the following four standard arrangements of call types:
1. Inward Calls - the number of Inward calls accommodated by the Signaling Group will be equal to the number of activated B-channels.
  2. Outward calls - the number of Outward calls accommodated by the Signaling Group will be equal to the number of activated B-channels.
  3. Inward calls and Outward calls - the maximum number of simultaneous calls for each call type is determined by the customer. For each call type, the maximum number of simultaneous calls must be less than or equal to the number of activated B-channels in the Signaling Group.
  4. 2-Way calls - the number of 2-Way calls accommodated by the Signaling Group will be equal to the number of activated B-Channels.
- BB.** The Company reserves the right to audit the customer's traffic usage for the Incoming Call Extension feature to ensure that simultaneous calls are not occurring on the low use option. If such calls are occurring, the customer will be required to subscribe to the high use option.
- CC.** The Service Installation Guarantee as set forth in B2.4.17 of the Private Line Guidebook applies for Primary Rate ISDN.
- DD.** (Obsoleted, See section A142.3)
- EE.** The provisions stated under B2.4.14 of the Private Line Guidebook, Cancellation of a Service Order, apply for Primary Rate ISDN with one exception. The customer must accept service within 45 calendar days after the original service date rather than 30 calendar days as stated in B2.4.14 of the Private Line Guidebook, or choose one of the following options:
- The service order shall be cancelled, and charges as set forth in B2.14.14 of the Private Line Guidebook will apply, or
  - Billing for the service will commence on the 46th day beyond the original service date of the service order.
- FF.** Customer requested changes from Primary Rate ISDN to intrastate or interstate Fast Packet Services and associated transport under a contract payment plan are permitted with no termination liability when:
1. A new contract is selected for the Fast Packet Service equal to or greater in length than the Primary Rate ISDN arrangement being terminated, and
  2. The service orders to disconnect the Primary Rate ISDN and to install the Fast Packet Service are related together and received by the Company at the same time with no lapse in billing of service.
- GG. (DELETED)**
- HH.** The PRI Overflow feature for Voice/Data Arrangements allows calls to overflow from a customer's Voice/Data PRI Arrangement to a telephone number. The calls must overflow to a Company business telephone number residing in the same central office switch as the customer's Voice/Data PRI Arrangement.

(D)

**Note 1:** Effective May 1, 2014, customers may not add the Digital Data Only option, and existing term plans for this option may not be renewed.

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.3 Primary Rate ISDN (Cont'd)

#### A42.3.3 Definitions

##### CALL-BY-CALL CAPABILITY

The term "Call-by-Call" denotes the ability of a Primary Rate ISDN B-Channel to carry a call of any call type (e.g., Inward, Outward, or 2-Way) as needed. This is distinct from other technologies where transmission channels are, due to technical limitations, segregated by call types.

##### CALL TYPES

The term "Call Types" denotes the use of three types of Simulated Facility Groups (SFGs) available with Primary Rate ISDN which are described as Inward, Outward, and 2-way.

##### D-CHANNEL

The term "D-Channel" denotes a 64 Kbps digital signaling only channel for call establishment when used with Primary Rate ISDN.

##### D-CHANNEL BACKUP

D-Channel Backup (DCBU) provides one of the DS1's in the NFAS arrangement with a spare D-Channel. This spare D-Channel is used to control signaling and call setup if the main D-Channel fails. The main D-Channel and the spare D-Channel are never provided on the same DS1. The channel configuration for NFAS with DCBU arrangements may be described as pB+2D where  $1 \leq p \leq 478$ . Thus, the maximum channel configuration for a NFAS with DCBU arrangement is 478B+2D.

##### DIGITAL DATA ONLY B-CHANNEL<sup>2</sup>

The term "Digital Data Only B-Channel" denotes a bi-directional synchronous channel capable of supporting 64 Kbps of digitally transmitted data mode calls when provisioned by the Primary Rate ISDN - Digital Data Only option.

##### EXTENDED REACH SERVICE FINAL TELEPHONE NUMBER (ERS FTN)

ERS FTNs are telephone numbers assigned in the ERS subscriber's serving central office. These numbers are required for ERS Final Route Arrangements and may be required where the Overflow Feature for ERS Dedicated Route arrangements is utilized for call overflows to intraLATA toll message trunk groups.

##### EXTENDED REACH SERVICE REMOTE TELEPHONE NUMBER (ERS RTN)

ERS RTNs are telephone numbers assigned to each local calling area to which the Extended Reach subscriber provides local number access. These telephone numbers are applicable for both ERS Dedicated Route Arrangements and ERS Final Route Arrangements.

##### FACILITY ASSOCIATED SIGNALING

In Facility Associated Signaling (FAS) arrangements for Primary Rate ISDN, a D-Channel is provided for every DS-1 facility. Since the subscriber may select the number of B-Channels activated (up to 23), the channel configuration for FAS arrangements may be described as nB+D where  $1 \leq n \leq 23$ . Thus, the maximum channel configuration for a FAS arrangement is 23B+D.

##### HIGH USE OPTION

The term "High Use Option" for Incoming Call Extension denotes that more than one simultaneous incoming call is received per telephone number.

##### INCOMING CALLING NAME DELIVERY

Delivery of the name associated with a call incoming to the customer's PRI and customers premise equipment for display on a telephone with appropriate display equipment.

##### INTEROFFICE CHANNEL

An Interoffice Channel provides for the transmission facilities between Company serving wire centers within a LATA.

##### INWARD CALL

An Inward call denotes a call that is switched through the Company Network and terminates in a Primary Rate ISDN arrangement<sup>1</sup>.

**Note 1:** A Primary Rate ISDN Arrangement may be either a single PRI or multiple PRIs that are associated with the same phone number or phone numbers.

**Note 2:** Effective May 1, 2014, customers may not add the Digital Data Only option, and existing term plans for this option may not be renewed.

**Page 30.1 is hereby deleted in its entirety and removed from this Guidebook**

M1 - Material previously appearing on this page now appears on page(s) 27 of this section.

M2 - Material appearing on this page previously appeared on page(s) 32 of this section.



## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.3 Primary Rate ISDN (Cont'd)

#### A42.3.3 Definitions (Cont'd)

##### INWARD DATA B-CHANNEL

An Inward Data B-Channel provides circuit switched service that will allow either analog data or digital data transmission at up to 64 Kbps and will include the functionality of Hunting and Calling/Called Number Delivery.

##### LOW USE OPTION

The term "Low Use Option" for Incoming Call Extension denotes that a maximum of one incoming call is received per telephone number at one time.

##### NEXT ROUTE INDEX FEATURE

The Next Route Index Feature allows a Primary Rate ISDN Digital Data Only<sup>2</sup> customer to arrange analog calls to overflow to a Voice/Data arrangement<sup>1</sup> in the same switch or allows the customer to overflow analog and digital calls to a Voice/Data arrangement<sup>1</sup> in the same switch. These same capabilities are available to a Primary Rate ISDN Inward Data customer to overflow calls to a Voice/Data arrangement in the same switch.

##### NON-FACILITY ASSOCIATED SIGNALING

In Non-Facility Associated Signaling (NFAS) arrangements for Primary Rate ISDN, a D-Channel controls multiple (up to 20) DS1 facilities. In NFAS arrangements, the first DS1 will typically be configured as 23B+D, and all other DS1's controlled by the D-Channel will be configured as 24B. The channel configuration for NFAS arrangements may be described as mB+D where  $1 \leq m \leq 479$ . Thus, the maximum channel configuration for a NFAS arrangement is 479B+D.

##### OUTGOING CALLING NAME DELIVERY

The name that is delivered to business and residences Calling Name Display equipment for customers so equipped when an outgoing call is placed. This name is defined in section A.6.2.1 general. All customer phone numbers will use this name unless Secondary Calling Name Delivery is purchased.

##### OUTWARD CALL

An Outward call denotes a call that originates on a Primary Rate ISDN arrangement<sup>1</sup> and is switched through the Company network.

##### OVERFLOW FEATURE FOR EXTENDED REACH SERVICE DEDICATED ROUTE ARRANGEMENTS

The Overflow Feature for Extended Reach Service Dedicated Route Arrangements allows calls to overflow from a customer's ERS Dedicated Route Arrangement to the same customer's Final Route Arrangement. When all facilities are busy on the customer's Dedicated Route Arrangement from a particular target local calling area, additional calls are switched over intraLATA toll message trunk groups to the customer's local serving central office, where they terminate on ERS Final Route Primary Rate Interfaces and B-Channels, via an ERS Final Telephone Number.

##### OVERFLOW FEATURE FOR VOICE/DATA ARRANGEMENTS<sup>1</sup>

The Overflow Feature allows calls to overflow from a customer's Voice/Data PRI Arrangement<sup>1</sup> to a Company business telephone number residing in the same central office switch as the customer's Voice/Data Arrangement<sup>1</sup>.

##### PRIMARY RATE ISDN ACCESS LINE

A Primary Rate ISDN Access Line provides a four-wire access loop from the serving wire center to the customer premises. The transmission characteristics of this loop support Clear Channel Capability and Extended Superframe Format (ESF).

##### PRIMARY RATE ISDN ARRANGEMENT

A Primary Rate ISDN Arrangement may be either a single PRI or multiple PRIs that are associated with the same phone number or phone numbers.

##### PRIMARY RATE ISDN B-CHANNEL

A Primary Rate ISDN B-Channel – provides circuit switched service that will allow either voice or data transmission at up to 64 Kbps and will include the functionality of hunting and calling/called number delivery.

**Note 1:** A Primary Rate ISDN Arrangement may be either a single PRI or multiple PRIs that are associated with the same phone number or phone numbers.

**Note 2:** Effective May 1, 2014, customers may not add the Digital Data Only option, and existing term plans for this option may not be renewed.

M1 - Material previously appearing on this page now appears on page(s) 29 of this section.

M2 - Material appearing on this page previously appeared on page(s) 33 of this section.

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.3 Primary Rate ISDN (Cont'd)

#### A42.3.3 Definitions (*Cont'd*)

##### PRIMARY RATE ISDN SERVICE D-CHANNEL

A Primary Rate ISDN D-Channel - provides a 64 Kbps digital signaling-only channel for call establishment and control.

##### PRIMARY RATE ISDN INTERFACE

A Primary Rate ISDN Interface - provides multiplexing to support up to 23 B-Channels at 64 Kbps and one D-Channel for signaling also at 64 Kbps. When Non-facility Associated Signaling (NFAS) is ordered, the Primary Rate ISDN Interface can provide up to 24 B-Channels at 64 Kbps. One Primary Rate ISDN Interface is required for each Primary Rate ISDN Access Line.

##### REDIRECTING NUMBER FEATURE

This feature provides delivery of up to two Redirecting Numbers on a terminating Primary Rate Interface. When a call is redirected by a line to a Primary Rate Interface, the directory number of the redirecting line is passed by the switch to the terminating Primary Rate Interface along with the calling party number.

##### SECONDARY CALLING NAME DELIVERY

Secondary Calling Name Delivery is an optional feature that allows the delivery of a Listed Directory Name other than the name defined in Outgoing Name Delivery. A secondary calling name may be associated with a number or range of numbers.

##### SIGNALING GROUP

A set of Primary Rate ISDN DS1s that is controlled by one D-Channel, or by one D-Channel together with the associated backup D-Channel, is called a Primary Rate ISDN Signaling Group. In a FAS arrangement, each DS1 constitutes a Signaling Group. In NFAS arrangements, all the DS1s controlled by the main D-Channel (and, optionally, by the Backup D-Channel) constitute a Signaling Group.

##### VOICE/DATA B CHANNEL

The term "Voice/Data B Channel" denotes a bi-directional synchronous channel capable of supporting 64 Kbps of digital transmission.

##### 2-WAY CALL

The term "2-Way calls" denotes calls which either originate or terminate on a Primary Rate ISDN arrangement<sup>1</sup>.

##### 64 KBPS CLEAR CHANNEL CAPACITY (CCC)

The term "64 KBPS Clear Channel Capacity (CCC)" denotes a B-Channel connection that provides end-to-end digital connection in which all 64 Kbps of bandwidth are available for customer use.

**Note 1:** A Primary Rate ISDN Arrangement may be either a single PRI or multiple PRIs that are associated with the same phone number or phone numbers.

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**A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)****A42.3 Primary Rate ISDN (Cont'd)****A42.3.4 Rates and Charges**

	Nonrecurring Charge	Month to Month	12 to 23 <sup>4</sup> Months	24 to 48 <sup>1,4</sup> Months	49 to 72 <sup>1,4</sup> Months	USOC	
<b>A.</b> A Primary Rate ISDN Access Line is furnished between a serving wire center and the customer's premises. If other services are used for transport as described in A42.3.1.E, no additional rate applies (Provisioning USOC: 1LD1F).							
1. Primary Rate ISDN Access Line, each							
(a) Primary Rate ISDN Access Line, each	\$875.00	\$ 861.00	\$135.00	\$130.00	\$120.00	1LD1E	(I)
<b>B.</b> Interoffice Channels furnished between central offices. Rates are based on the airline distance between central offices.							
1. Interoffice Channel, each channel							
(a) Fixed Monthly Rate	125.00	75.00	72.50	70.00	65.00	1LN1A	
(b) Each airline mile or fraction thereof	-	24.00	23.00	22.00	20.00	1LN1B	
<b>C.</b> Primary Rate ISDN will be available in combinations of channels according to the limits of the Company central office type. Customers will choose the most appropriate combinations and will be billed for the services accordingly.							
1. Primary Rate ISDN Interface, each							
(a) Voice/Data (Standard)	110.00	2,438.00	400.00	375.00	350.00	PR71V	(I)
(b) Digital Data Only Option <sup>2,3</sup>	110.00	2,438.00	400.00	375.00 <sup>2</sup>	350.00 <sup>2</sup>	PR71D	(I)
(c) Inward Data Option	110.00	2,438.00	400.00	375.00	350.00	PR71E	(I)
(d) Inward Data Option with Extended Reach Service – Dedicated Route	110.00	2,438.00	400.00	375.00	350.00	PR71C	(I)
(e) Inward Data Option with Extended Reach Service – Final Route	110.00	2,438.00	400.00	375.00	350.00	PR71U	(I)
2. Primary Rate ISDN B-Channels							
(a) Voice/Data (Standard)	5.00	454.00	61.50	56.50	51.50	PR7BV	(I)
(b) (DELETED)							
(c) Digital Data Only Option <sup>2,3</sup>	5.00	28.85	27.50	26.15 <sup>2</sup>	23.85 <sup>2</sup>	PR7BF	
(d) Inward Data Option	5.00	37.75	36.50	35.10	32.75	PR7BD	
(e) Inward Data Option with Extended Reach Service – Dedicated Route	5.00	45.00	43.50	42.00	38.00	PR7BE	
(f) Inward Data Option with Extended Reach Service – Final Route	5.00	60.00	57.50	55.00	50.00	PR7BL	

**Note 1:** Effective October 1, 2013, customers may not establish new term plans greater than 36 months for Primary Rate ISDN, and existing term plans greater than 36 months may not be renewed or extended for a term greater than 36 months.

**Note 2:** As of January 25, 2013, Variable Rate Periods of 24 months and greater are no longer available for new or renewing subscribers of the Digital Data Only Option.

**Note 3:** Effective May 1, 2014, customers may not add the Digital Data Only option, and existing term plans for this option may not be renewed.

**Note 4:** Upon expiration of the CSPP, if customer has not entered into a new CSPP contract or term extension, or disconnected service, Monthly Extension rates will apply (see Paragraph A42.3.2.A.5.). Monthly Extension rates are equal to one hundred fifty percent (150%) of the customer's expiring contractual rate.

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.3 Primary Rate ISDN (Cont'd)

#### A42.3.4 Rates and Charges (Cont'd)

##### C. (Cont'd)

3.	Primary Rate ISDN D-Channel - No Rate (Requires Provisioning USOC: PR7EX)				(T)
4.	Extended Reach Dedicated Interoffice Channel – No Rate (Requires Provisioning USOC: PR7OE)				(M1)
5.	Primary Rate ISDN Call types <sup>1</sup> - No Rate				(T)
	Requires Provisioning USOC per Call Type				(M2)
	<b>Call Type</b>	<b>USOC</b>			
	Inward Only	PR7C1			(M2)
	Outward Only	PR7CO			(M2)
	2-Way	PR7CC			(M2)
		<b>Nonrecurring Charge</b>	<b>Monthly Rate</b>	<b>USOC</b>	
6.	Telephone Numbers for Primary Rate ISDN Voice/Data and Digital Data Only <sup>4</sup> options				(M2)
(a)	Per telephone number requested inward and 2-way	-	\$ .20	PR7TG	(M2)
(b)	Per telephone number requested outward only - No Rate (Provisioning Only)	-	-	PR7TP	(M2)
7.	Telephone Numbers for Primary Rate ISDN Inward Data Option				(M2)
(a)	Each telephone number requested inward only within standard allowance <sup>2</sup>	-	.20	PR7TG	(M2)
(b)	Each telephone number requested inward only above standard allowance <sup>2</sup>	-	20.00	PR7ZT	(M2)
(c)	Each Remote Telephone Number requested inward only with Extended Reach Service – Dedicated <sup>3</sup>	-	20.00	PR7T1	(M2)
(d)	Each Final Telephone Number requested inward only with Extended Reach Service <sup>3</sup>	-	20.00	PR7L2	(M2)
(e)	Each Remote Telephone Number requested inward only with Extended Reach Service – Final Route <sup>3</sup>	-	20.00	PR7RM	(M2)
	<b>Note 1:</b> The Inward Data option is restricted to the Inward Only Call Type.				(M2)
	<b>Note 2:</b> The standard allowance is equal to the number of Primary Rate ISDN Interfaces comprising the arrangement.				(M2)
	<b>Note 3:</b> Final Route Arrangements require an ERS Remote Telephone Number (RTN) and an ERS Final Route Telephone Number (FTN). RTNs are not available in 1AESS central offices.				(M2)
	<b>Note 4:</b> Effective May 1, 2014, customers may not add the Digital Data Only option, and existing term plans for this option may not be renewed.				(M2)

M1 - Material previously appearing on this page now appears on page(s) 33 of this section.

M2 - Material appearing on this page previously appeared on page(s) 35 of this section.

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.3 Primary Rate ISDN (Cont'd)

#### A42.3.4 Rates and Charges (Cont'd)

##### D. Optional Offerings

		Nonrecurring Charge	Month to Month	12 to 23 <sup>d</sup> Months	24 to 48 <sup>1,d</sup> Months	49 to 72 <sup>1,d</sup> Months	USOC	(T)
1.	ANSA - Interoffice Mileage per Primary Rate ISDN service Access Line - No Rate (Provisioning USOC: 2LHLM)							
2.	Incoming Call Extension – Same Rate Center							
	(a) (Obsoleted - See Section A142)						PR7N1	
	(b) (Obsoleted - See Section A142)						PR7N2	
	(c) (Obsoleted - See Section A142)						PR7N3	
	(d) ICE-SRC, Per telephone number in the same rate center <sup>2</sup>	-	\$ .20	-	-	-	PR7TG	
3.	Incoming Call Extension – Different Rate Center							
	(a) ICE-DRC, Per Telephone Number – Month-to-Month Option	\$ 10.00	.40	-	-	-	PR7NZ	
	(b) ICE-DRC, Per Telephone Number – Term Plan Option	-	-	\$ .35	\$ .30	\$ .25	PR7NZ	
4.	Next Route Index Feature							
	(a) Per analog arrangement	100.00	30.00	28.50	27.00	25.00	PR7GX	
	(b) Per analog and digital arrangement	100.00	30.00	28.50	27.00	25.00	PR7GY	
5.	Overflow Feature for Extended Reach Service Dedicated Route Arrangement							
	(a) Per Remote Telephone Number	100.00	54.00	52.00	50.00	46.00	PR7AU	
6.	Calling Name Delivery Feature							
	(a) Per Primary Rate Interface	-	100.00	85.00	75.00	69.00	PR7CN	
7.	Redirecting Number Feature per Primary Rate Interface – No Rate (Provisioning USOC: PR7RN)							
8.	PRI Overflow Feature for Voice/Data Arrangements							
	(a) Per analog and digital arrangement	100.00	30.00	28.50	27.00	25.00	PR7OF	
9.	Secondary Calling Name Delivery <sup>3</sup>							
	(a) Per number	10.00	4.00	4.00	4.00	4.00	PR7SN	

**Note 1:** Effective October 1, 2013, customers may not establish new term plans greater than 36 months for Primary Rate ISDN, and existing term plans greater than 36 months may not be renewed or extended for a term greater than 36 months.

**Note 2:** These rates apply only to new ICE-SRC service ordered on or after June 14, 2004

**Note 3:** Each number requires an additional listing. Listings for this service are subject to terms and conditions specified in Section A6 for listings.

**Note 4:** Upon expiration of the CSPP, if customer has not entered into a new CSPP contract or term extension, or disconnected service, Monthly Extension rates will apply (see Paragraph A42.3.2.A.5.). Monthly Extension rates are equal to one hundred fifty percent (150%) of the customer's expiring contractual rate. (N)

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.3 Primary Rate ISDN (Cont'd)

(T)

#### A42.3.4 Rates and Charges (Cont'd)

##### E. Volume Discounts

1. When the total number of Primary Rate ISDN Interfaces of all types equals or exceeds 6 on a billing account, a credit as listed below will be applied per billing cycle to the Interface monthly rate. The amount of the credit will be based on the total number of Interfaces of all types.

(T)

##### a. Voice/Data (Standard)

Number of Primary Rate ISDN Interfaces	Percent Discount
6 to 10	4
11 to 15	7
More than 15	10

(T)

##### b. Digital Data Only Option<sup>1</sup>

Number of Primary Rate ISDN Interfaces	Percent Discount
6 to 10	3
11 to 15	4
More than 15	5

(T)

##### c. Inward Data Option

Number of Primary Rate ISDN Interfaces	Percent Discount
6 to 10	3
11 to 15	4
More than 15	5

(T)

2. When the total number of Primary Rate ISDN B-Channels of all types equals or exceeds 138 on a billing account, a credit as listed below will be applied per billing cycle to the B-Channel monthly rate. The amount of the credit will be based on the total number of B-Channels of all types.

##### a. Voice/Data (Standard)

Number of Primary Rate ISDN B-Channels	Percent Discount
138 to 252	4
253 to 367	7
More than 367	10

(T)

##### b. Digital Data Only Option<sup>1</sup>

Number of Primary Rate ISDN B-Channels	Percent Discount
138 to 252	3
253 to 367	4
More than 367	5

(T)

##### c. Inward Data Option

Number of Primary Rate ISDN B-Channels	Percent Discount
138 to 252	3
253 to 367	4
More than 367	5

(T)

**Note 1:** Effective May 1, 2014, customers may not add the Digital Data Only option, and existing term plans for this option may not be renewed.

## A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

### A42.3 Primary Rate ISDN (Cont'd)

(T)

#### A42.3.4 Rates and Charges (Cont'd)

##### F. Move Charge

1. An inside move charge, applies for each Primary Rate ISDN Access Line moved to a new location in the same building. The inside move charge is equal to the sum of the Service Change Charge, and the Premises Visit Charge. (T)
2. An interbuilding same premises or off premises move charge, per Primary Rate ISDN Access Line, applies for each Primary Rate ISDN Access arrangement moved to a different building on the same premises or to a different premises in Company territory within the same state. (T)
3. If the serving central office does not change, this move charge is equal to the sum of the nonrecurring charges applicable for installation of a Primary Rate ISDN Access Line. Other charges, e.g., Interoffice Channel Charges, may apply as appropriate. (T)
4. If the serving central office does change, the move will be treated as a disconnect and reconnect with full nonrecurring charges applicable for the Primary Rate ISDN arrangement. If a customer is moving service to a new Serving Wire Center that is in the same Toll Message Rate Center as the customer's current Serving Wire Center then the customer may retain the same telephone numbers at the new location at no additional charge. Other local switched service types may be installed at the old location. In the event the customer requests a subsequent move to yet another central office, *the Company* will determine the feasibility of allowing the customer to retain their phone numbers on a case by case basis. (T)
5. Termination Liability Charges will not apply for moves of Primary Rate ISDN if the conditions stated in B2.4.9.A.11 of the Private Line Guidebook are met. (T)

##### G. Service Rearrangement Charges

Service Rearrangement Charges are applicable for receiving and recording information and/or taking action in connection with a customer's Inside Move or transfer of service responsibility request or for processing the necessary data for a change on an existing Primary Rate ISDN. Premises Visit Charges are applicable for inside moves. Only one Premises Visit Charge applies when more than one Primary Rate ISDN Access Line is moved at the same premises at the same time. (T)

	Nonrecurring Charge	USOC	
1. Service Change and/or Inside Move, Per Primary Rate ISDN Access Line			(T)
(a) Inside move or change requiring redesign of transmission facilities	\$160.00	NRCPM	
(b) Change involving central office translations, and all other types of changes	60.00	NRCPB	
2. Per Transfer of Responsibility and Record Orders			
(a) Each	9.00	NRCPT	
3. Premises Visit Charge			
(a) Per Primary Rate ISDN Access Line moved in the same building	14.00	NRCPC	(T)
4. Extended Reach Service (ERS) Rearrangement Charge			
(a) Per ERS Primary Rate Interface	225.00	NRCPE	
H. Due Date Change Charge			
1. Any request to change the due date after the first change will incur a Due Date Change Charge.			
2. The Due Date Change Charge is in addition to all other applicable nonrecurring charges.			
(a) Per request (after initial request)	50.00	PR7DD	

**A42. INTEGRATED SERVICES DIGITAL NETWORK (ISDN)**

**A42.3 Primary Rate ISDN (Cont'd)**

(T)

**A42.3.4 Rates and Charges (Cont'd)**

- I. Expedite Request Charge
  - 1. Any request to change the due date for a service installation that is in advance of the Company's stated standard installation interval for such service will incur an Expedite Request Charge.
  - 2. The Expedite Request Charge is in addition to all other applicable nonrecurring charges.
    - (a) Per request **350.00** **PR7EP**