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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.1 ISDN-BASIC RATE INTERFACE SERVICE**

**12.1.1 General**

- A. Integrated Services Digital Network (ISDN) - Basic Rate Interface Service (BRI) is a central office based service agreement that utilizes ISDN network architecture to provide network offerings. ISDN-BRI Service supports the simultaneous transmission of circuit switched data and voice and packet switched supervisory/signaling information over a single exchange access line at a standard interface.
- B. ISDN-BRI Service provides a customer with up to two 64 Kilobits per second (Kbps) channels (known as B-Channels) and up to one 16 Kbps channel (known as the D-Channel). The channels are communication paths over which circuit switched services flow, thus providing end user access to a wide variety of circuit switched services (i.e., data, image, video and voice).
- C. ISDN-BRI Service does not include ISDN terminals, special line treatment, or special power arrangements at the customer's premises.
- D. ISDN-BRI Service may be comprised of the following elements:
  - ISDN-Basic Rate Interface Component
  - Flat Rate Network Component (with 1800 minutes of B-Channel CSS usage)
  - Usage Sensitive Network Component
  - Channel Options
  - Feature Options

**12.1.2 Abbreviations**

The following abbreviations are used in this tariff section:

BRI	=	Basic Rate Interface
CACH	=	Call Appearance Call Handling
CSD	=	Circuit Switched Data
CSS	=	Circuit Switched Services
CSV	=	Circuit Switched Voice
EKTS	=	Electronic Key Terminal Service
ISDN	=	Integrated Services Digital Network
Kbps	=	Kilobits per second
PSTN	=	Public Switched Telephone Network

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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.1 ISDN-BASIC RATE INTERFACE SERVICE (Cont'd)**

**12.1.3 Service Components: Descriptions and Definitions**

- A. Additional Call Offering - A feature that supports multiple calls to a single number. This feature notifies the user of an additional circuit switched voice call that would normally be cleared because the user's interface is busy. (The method of notification to the end user is customer provided equipment dependent.) This feature is inherent to the CACH EKTS feature package but is also available on a stand-alone basis.
- B. Analog Member in a Hunt Group - A feature that provides for an analog interface in an ISDN-BRI Hunt Group.
- C. Basic Electronic Key Terminal Service (Basic EKTS) Feature Package - A circuit switched voice package option that enhances normal telephone use. It consists of: Bridging, Bridged Call Exclusion, Call Hold, Call Forwarding Variable, Call Forwarding-Don't Answer, Call Forwarding-Interface Busy, Message Waiting Indication, Three-Way Conference Calling, and Speed Call Short. A Basic EKTS terminal supports only one call appearance per telephone number.
- D. Basic Rate Interface (BRI) - The interface between the end user's location and the ISDN-BRI capable central office switch. It provides for up to two 64 Kbps B-channels and up to one 16 Kbps D-Channel to be sent over a single circuit or local loop. This rate element includes the central office hardware and software, as well as the 144 Kbps facility required to provide ISDN-BRI Service.
- E. B-Channel (Bearer Channel) - A communications path capable of transmitting information at a speed of 64 Kbps. The B-Channel may be used by a customer for CSS communications (e.g., voice, data, facsimile, etc.) between customer specified locations and the PSTN.
- F. Bridged Call Exclusion - An optional feature that allows a user to prohibit other terminals from picking up a call on hold or bridging onto a call that is active at that terminal. This feature is included with Basic EKTS and CACH EKTS feature packages.

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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.1 ISDN-BASIC RATE INTERFACE SERVICE (Cont'd)**

**12.1.3 Service Components: Descriptions and Definitions (Cont'd)**

- G. Bridging - An optional feature that allows the user to join onto a currently active call by pressing the active call appearance button and going off-hook. This establishes a three-way call. This is different from standard three-way calling because the third party initiates the bridge on the active call. Bridging is inhibited if Bridged Call Exclusion is activated at the instrument engaged in the active call. Only one additional shared call appearance user may bridge onto an active two-way call. Bridging is not allowed on an existing three-way call. This feature is included with Basic EKTS and CACH EKTS feature packages.
- H. Business system - The combination of BRIs forming a complete communications system for a single customer of record. Each terminal within a single business system has the capability to originate and terminate calls to all other terminals within the customer's business system via abbreviated dialing. Business systems are only available when all terminals are served by the same central office.
- I. Call Appearance Call Handling Electronic Key Terminal Service (CACH EKTS) Feature Package. A circuit switched voice optional feature package that provides central office functions allowing multiple telephone numbers, and call appearances. Other service features included with this package are: Bridging, Bridged Call Exclusion, Call Hold, Call Forwarding-Variable, Call Forwarding-Don't Answer, Call Forwarding-Interface Busy, Three-Way Conference Calling, Key System Coverage for Analog Lines, Message Waiting Indication, and Speed Call Long or Speed Call Short. (The Additional Call Offering feature is inherent to this package and therefore the monthly rate for this feature does not apply to CACH EKTS subscribers.)
- J. Call Forwarding-Don't Answer - An optional circuit switched feature that directs incoming calls to a preselected telephone number when the called telephone number is not answered after a customer specified number of rings. The feature is included with Basic EKTS and CACH EKTS feature packages.
- K. Call Forwarding-Interface Busy - An optional circuit switched feature that permits incoming calls encountering a busy condition to be redirected to a preselected telephone number. This feature is included with Basic EKTS and CACH EKTS feature packages.
- L. Call Forwarding-Variable - An optional circuit switched feature that allows a user to redirect incoming calls to another telephone number. This feature is included with Basic EKTS and CACH EKTS feature packages.

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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.1 ISDN-BASIC RATE INTERFACE SERVICE (Cont'd)**

**12.1.3 Service Components: Descriptions and Definitions (Cont'd)**

- M. Call Hold - An optional feature that allows a user to place a call on hold by pressing the appropriate customer premises equipment function button. This feature is included with basic EKTS and CACH EKTS feature packages.
- N. Call Transfer Disconnect - An optional circuit switched feature that allows a user to transfer any established call to another telephone number and then hang up, leaving the two remaining parties connected. The customer is prohibited from using this feature to avoid toll charges.
- O. Channel - The electrical path provided by the Telephone Company between two or more terminating points for the transmission of information or intelligence.
- P. Circuit Switching - The process of setting up and keeping a telephone line or circuit open between two or more users, such that the users have exclusive and full use of the telephone line or circuit until the connection is released.
- Q. CSV/CSD - This network option arrangement allows digital CSV and CSD transmission to and from the PSTN. CSV/CSD is generally referred to as CSS throughout this section of the tariff.
- R. Delayed and Abbreviated Ringing - A Basic and CACH EKTS feature that alerts a terminal for a predetermined interval (abbreviated ringing) before ringing another designated EKTS terminal (delayed ringing). This feature provides several options for customers as to the type of audible and/or visual alerting that is given at each terminal.
- S. D-Channel (Delta Channel) - Communications path set up to transmit data in packet form at speeds up to 16 Kbps. This communications path is designated to send and receive out-of-band signaling/supervisory messages and may also be used for packet switched user data. The bit rate is fixed as a function of the interface used by the customer.
- T. Flat Rate Network Component - Provides for 1800 minutes per month of B-Channel access to the PSTN. This rate element applies per B-Channel and provides central office switching capabilities.
- U. Hunt Group for CSD - This optional feature provides for a predefined search (circular, linear, uniform) for an idle directory number to which a circuit switched data call can be offered.

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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.1 ISDN-BASIC RATE INTERFACE SERVICE (Cont'd)**

**12.1.3 Service Components: Descriptions and Definitions (Cont'd)**

- V. Hunt Group for CSV - This optional feature provides for a predefined search for an idle directory number within a designated group of lines. The sequence in which the search for the terminating lines is conducted is determined by the type of hunting feature chosen by the customer (e.g., circular, linear, uniform).
- W. Hunt Group Transfer for CSD - This optional feature sends circuit switched data calls that terminate to a circuit switched data hunt group to a backup circuit switched data hunt group. The user must activate this feature in order for CSD to be sent to the backup group.
- X. Integrated Services Digital Network-Basic Rate Interface (ISDN-BRI) - A network architecture which allows for the simultaneous transmission of up to three channels of information (e.g., voice, data, facsimile, etc.) over a single telephone circuit of local loop.
- Y. Instrument or Terminal - When used in connection with the ISDN-BRI Service denotes customer provided equipment at which the BRI terminates. One BRI may terminate in several different instruments (e.g., digital telephone sets, computers or facsimile machines equipped with ISDN adapters, etc.).
- Z. Key System Coverage for Analog Lines - A CACH EKTS feature that allows an analog telephone set to share calls with a CACH EKTS set.
- AA. Kbps - Kilobits per second is data transmission that is sent at the rate of a thousand bits per second. 1 Kbps means one thousand bits per second, 10 Kbps means ten thousand bits per second, etc.
- AB. Message Waiting Indication - An optional CSV feature that provides the user of a message service with either a visual or audible indication that a message is waiting.
- AC. Multiple B-Channel Terminals on a BRI - This capability allows a user to place more than two B-Channel terminals on a BRI. Because there are only two B-Channels on a BRI, only two terminals can use the B-Channels simultaneously. The maximum number of terminals is eight per BRI. These terminals can use the B-Channels, the D-Channel, or a combination. When there are two users on a BRI, it would be possible for one user to engage both B-Channels and thus, leave the other user without access to a B-Channel. To prevent this from occurring, Associated Groups may be defined. The first user is assigned to one Associated Group and the other user is assigned to a second Associated Group. Each Associated Group is allowed access to one B-Channel at any particular time. Both users are allowed access to the D-Channel. These capabilities are available without additional charge.

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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.1 ISDN-BASIC RATE INTERFACE SERVICE (Cont'd)**

**12.1.3 Service Components: Descriptions and Definitions (Cont'd)**

- AD. Network Component - The Company offers 1800 minutes of B-Channel access to the PSTN via the Flat Rate Network Component. Additional minutes of access to the PSTN via B-Channels is offered through the Usage Sensitive Network Component. These rate elements provide central office switching capabilities, required to access the PSTN, and shall apply per B-Channel.
- AE. Public Switched Telephone Network (PSTN) - The worldwide telephone network available to telephone subscribers in the United States. It includes local dialing scope, home LATA, intrastate, and international locations. Access to PSTN is provided via the Flat Rate and Usage Sensitive Network Components.
- AF. Secondary-Only Telephone Number - A CSS option that allows any telephone number, other than the primary telephone number, to be assigned to an ISDN-BRI terminal. A Secondary-Only Telephone Number does not have to be a primary telephone number at another terminal. An ISDN-BRI terminal can have one or more Secondary-Only Telephone Numbers. Each Secondary-Only Telephone Number can have multiple call appearances. A Secondary-Only Telephone Number can be shared with another ISDN-BRI terminal.
- AG. Speed Call Long - An optional feature that allows a user to dial a prearranged number by pressing the button assigned to the speed calling feature and dialing two digits or via an interactive dialing sequence. This feature allows for up to 30 numbers in the speed call list. This optional feature is included with Basic EKTS and CACH EKTS feature packages.
- AH. Speed Call Short - An optional feature that allows a user to dial a prearranged number by pressing the button assigned to the speed calling and dialing one digit or via an interactive dialing sequence. This feature allows for up to eight numbers in the speed call list. This optional feature is included with Basic EKTS and CACH EKTS feature packages.
- AI. Three-Way Conference Calling - An optional feature that allows the user to establish a conference call for up to three parties. This feature is included with Basic EKTS and CACH EKTS feature packages.
- AJ. Usage Sensitive Network Component - Measured rate element applicable to all B-Channel CSV and CSD calls that utilize the PSTN more than 1800 minutes per month. This rate element applies per B-Channel minute of use beyond the Company's allotted number of hours of use and provides central office switching capabilities.

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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.1 ISDN-BASIC RATE INTERFACE SERVICE (Cont'd)**

**12.1.4 Rules and Regulations**

The following regulations apply in addition to those in other sections of Darien Telephone's General Exchange Tariff. Where other regulations apply on a per-line basis, they shall be interpreted to apply on a per-channel basis in the ISDN portion of this tariff, unless otherwise indicated.

- A. ISDN-BRI Service requires compatible registered CPE under FCC Part 68.
- B. ISDN-BRI Service is available as an alternative to, or in combination with, single line service or multiline service. ISDN-BRI Service is not available with, or as an alternative to, public or private pay telephone service. ISDN-BRI Service cannot be used in the resale of long distance service.
- C. ISDN-BRI Service is subject to the same rules and regulations applicable to analog single line and multiline service (see Section III of this tariff), where provided as an alternative to, or in combination with these services.
- D. For directory listing purposes, the Telephone Company will furnish one alphabetical directory listing of the business system primary directory number at no charge. Additional listings will be furnished at standard charges as shown in Section VI of this tariff.
- E. Features with Call Forwarding capabilities cannot be used on a continual basis to expand the local calling scope beyond that which is available to a customer's premises.
- F. All ISDN-BRI Service components have a minimum service term of one month.



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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.1 ISDN-BASIC RATE INTERFACE SERVICE (Cont'd)**

**12.1.4 Rules and Regulations (Cont'd)**

- G. ISDN-BRI Service will be furnished at the rates contained in this Section of the tariff, provided that necessary facilities are available. Where necessary facilities are not available or unusual expenditures are involved in making them available, the customer may be required to pay additional charges (under Section V of the General Exchange Tariff) for the unusual expenditure, to contract for services beyond the service term, or both.

Lines, equipment and facilities provided under this tariff will be designed by the Telephone Company to provide at least the same level of service, reliability, and quality as local exchange service in the exchanges where ISDN-BRI Service is offered. At a minimum, ISDN-BRI Service will be provided where the access line does not exceed 14 kilofeet in length from the customer's premises to the serving central office, or experience a maximum loss of 34 dB as measured at the customer's premises at no additional cost to the customer. For circumstances that exceed these minimum service standards, special construction charges may be applied.

- H. The Telephone Company may make changes in its telecommunications services, equipment, operations, or procedures, where such action is consistent with Part 68 of the Federal Communications Commission's Rules and Regulations. If such changes materially affect the operating characteristics or technical parameters of the service as originally ordered by the customer, adequate notice will be given in writing to allow the customer an opportunity to maintain uninterrupted service.

- I. ISDN-BRI Service will conform with the Bellcore technical references and the American National Standards Institute standard.

J. Moves

1. Customer requests for moves involving a change between suitably equipped ISDN-BRI serving central offices constitutes a disconnection of service and the customer must establish a new service for that part of the service involved.
2. Customer moves occurring within the same ISDN serving office will not constitute a disconnection of service if the service is merely reestablished with a new loop facility. The reestablishment of service with a new loop facility will subject the customer to installation charges for each ISDN-BRI.

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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.1 ISDN-BASIC RATE INTERFACE SERVICE (Cont'd)**

**12.1.4 Rules and Regulations (Cont'd)**

- K. Seasonal and Vacation Service (Section XIII of the General Exchange Tariff) is not available in connection with ISDN-BRI Service.
- L. Presubscription to an InterLATA carrier of preference applies to ISDN-BRI Service just as it applies to analog (POTS) telephone service. Each B-Channel within a customer's business system may have a different carrier of preference.
- M. Standard with ISDN-BRI B-Channel services, the Company provides a monthly allowance of 1800 minutes of access to the PSTN through the B-Channels at no additional charge via the Flat Rate Network Component. The Usage Sensitive Network Component shall apply per minute of B-Channel usage above 1800 minutes per month for all ISDN-BRI incoming and outgoing calls utilizing B-Channels. For calls utilizing two B-Channels, the Usage Sensitive Network Component shall apply per B-Channel minute of use.
- N. Channels
  - 1. The channels available through the provision of ISDN-BRI Service may be designated or assigned to suit the customer's needs, not to exceed the maximum of two B-Channels and one D-Channel (2B+D) per ISDN-BRI.
  - 2. The B-Circuit Switched Services Channel (B-CSS) assigns circuit switched calls to one of the two B-Channels on the BRI. The B-CSS Channel operates at a maximum speed of 64 Kbps.
  - 3. When the B-CSS Channel is connected with the services offerings of entities other than the Telephone Company, the customer is responsible for payment of services provided by those entities, as well as the Telephone Company's charges.

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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.1 ISDN-BASIC RATE INTERFACE SERVICE (Cont'd)**

**12.1.4 Rules and Regulations (Cont'd)**

O. Optional BRI Features

With subscription to an ISDN-BRI, the following options are available at the rates and charges set forth in subsection 12.1.5 of this tariff (assuming appropriate digital telephone set(s) are used by the customer):

Additional Call Offering  
Analog Member in a Hunt Group  
Basic EKTS Feature Package  
Bridged Call Exclusion  
Bridging  
CACH EKTS Feature Package  
Call Forwarding-Don't Answer  
Call Forwarding-Interface Busy  
Call Forwarding-Variable  
Call Hold  
Call Transfer Disconnect  
Hunt Group for CSD  
Hunt Group for CSV  
Hunt Group Transfer for CSD  
Message Waiting Indication  
Secondary-Only Telephone Number  
Speed Call Long  
Speed Call Short  
Three-Way Conference Calling

Unless otherwise noted, all Special Calling Features and Services described in Section XIII of this General Exchange Tariff are available with ISDN-BRI Service at the same rates, terms and conditions specified in that tariff section.

P. The Call Transfer Disconnect or the Call Forwarding features cannot be used to expand a local calling scope or to avoid any toll charges.

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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.1 ISDN-BASIC RATE INTERFACE SERVICE (Cont'd)**

**12.1.5 BRI - Rates and Charges**

- A. Basic Residence ISDN
  - Darien and Sapelo Island \$42.98 monthly
  - Eulonia \$40.00 monthly
- B. Basic Business ISDN
  - Darien and Sapelo Island \$54.66 monthly
  - Eulonia \$51.70 monthly
- C. Nonrecurring Charge
  - Business \$100.00
  - Residence \$ 50.00

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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.1 ISDN-BASIC RATE INTERFACE SERVICE (Cont'd)**

**12.1.5 BRI - Rates and Charges (Cont'd)**

D.	CSV/CSD Network Options Per B-Channel		
		<u>Monthly Charge</u>	<u>Nonrecurring Charge<sup>1</sup></u>
	Additional Call Offering	\$2.00	-
	Analog Member in a Hunt Group	\$1.00	-
	Basic Electronic Key Terminal Feature Package (Basic EKTS)	-	\$30.00
	Bridged Call Exclusion	\$2.00	-
	Bridging	\$2.00	-
	CACH EKTS Feature Package	\$20.00	-
	Call Forwarding-Don't Answer	\$2.00	-
	Call Forwarding-Interface Busy	\$2.00	-
	Call Forwarding-Variable	\$2.00	-
	Call Hold	\$2.00	-
	Call Transfer Disconnect	\$2.00	-
	Hunt Group for CSD	\$1.00	-
	Hunt Group for CSV	\$1.00	-
	Hunt Group Transfer for CSD	\$2.00	-
	Message Waiting Indication	-	-
	Secondary-Only Telephone Number	\$3.00	-
	Speed Call Long	\$4.50	-
	Speed Call Short	\$3.50	-
	Three-Way Conference Calling	\$2.00	-

<sup>1</sup>Please refer to Section 5 of this tariff for applicable service charges.

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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.1 ISDN-BASIC RATE INTERFACE SERVICE (Cont'd)**

**12.1.5 BRI - Rates and Charges (Cont'd)**

E. Changes

Change a Network Option,  
Per B-Channel\* -

Change a Facility and Equipment  
Or Network Rate Element, Per BRI \$34.00

F. FCC End User Common Line Charges, as set forth in the National Exchange Carrier's Access Services Tariff, apply as appropriate and shall be interpreted to apply per B-Channel.

G. Customer Access Line Charges, as set forth in this tariff, apply as appropriate and shall be interpreted to apply per B-Channel.

H. Custom configurations will be priced on a case-by-case basis.

\*Please refer to Section 5 of this tariff for applicable service charges.

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**INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE**

**12.2 Primary Rate Interface (PRI)**

**12.2.1 General**

- A. The minimum configuration is a T1 with 23 B +D.
- B. Base configuration includes forty (40) DID numbers, 2 way voice capability and data capability.
- C. PRI is not available to Commercial Radio Mobile Carriers, Private Mobile Radio Carriers and Interexchange Carriers in their provision of services to their customers.
- D. PRI is available for both residential and business customers.
- E. Monthly rate includes T1 termination, T1 configuration and twenty-four (24), T1 channels.

**12.2.2 PRI - Rates and Charges**

T-1 23B+D	\$945.00 monthly
T-1 24 B	\$945.00 monthly
Nonrecurring Charge	\$1,000.00

