

INTEGRATED SERVICES DIGITAL NETWORK

Item
 465 INTEGRATED SERVICES DIGITAL NETWORK - BASIC RATE INTERFACE (ISDN-BRI) SERVICE

A. GENERAL

1. ISDN-BRI services provide for the digital transmission of information between the Company's serving central office and compatible terminal equipment located at the customer's premises. The services include a local loop which carries a minimum of one 64 Kilobits per second (Kbps) B channel and one 16 Kbps D channel. The D channel is used for signalling and control for the B channel(s) and packet data. ISDN-BRI services are based on the Integrated Services Digital Network (ISDN) Basic Rate Interface (BRI) standard.
2. ISDN-BRI services may be connected over the D channel to private and/or public packet switched data networks. ISDN-BRI services may also be connected to other Company services as specified in C.2., D.2. and E.2. following.
3. ISDN-BRI services consist of the following components:
 Access, D channel packet link, Packet/ISDN network link and ISDN X.75 Gateway Access service for private or public network providers.
4. Central offices and remotes with non-ISDN capable equipment will be served via co-located remote devices which will be hosted from ISDN capable central offices. ISDN-BRI subscribers will be assigned a telephone number associated with the host central office.

B. ISDN-BRI HOME SERVICE

ISDN-BRI Home Service consists of the following components:

Access, local network usage, terminal equipment, and network-based line features.

1. Access

- (a) Provides the customer with a digital local loop between the serving central office and the customer's residential premises.
- (b) ISDN-BRI Home provides a 2B+D access configuration in which the B channels are used for alternate circuit switched voice and data or for circuit mode data, and the D channel is used exclusively for control and signalling of the B channels.
- (c) B channel access to the Company's public switched telephone network is included.
- (d) The following rates and charges apply in addition to any other applicable rates and charges:

Rate Band (Note 2)	Rate Per Month	Service Charge (Note 1)
A1	N/A	N/A
B1	N/A	N/A
B2	N/A	N/A
B3	N/A	N/A
B4	N/A	N/A
B5	N/A	N/A
B6	N/A	N/A
B7	N/A	N/A
B8	N/A	N/A
C	N/A	N/A
D1	118.00	Item 110
D2	118.00	Item 110
D4	118.00	Item 110
E1	118.00	Item 110
E2	118.00	Item 110
E3	118.00	Item 110
E4	118.00	Item 110
F1	118.00	Item 110
F2	118.00	Item 110
F3	N/A	N/A
F4	118.00	Item 110
G1	118.00	Item 110
G2	118.00	Item 110
G3	118.00	Item 110
G4	118.00	Item 110

Note 1: Installation charges include only connection of the local loop to the demarcation point. Installation or re-arrangement of inside wire is not included and is available at rates specified in Item 170 11. Set-up and trouble-shooting of customer equipment is not included.

Note 2: The rates shown in this tariff do not apply to exchanges in Sub-Rate Bands A1, B1, B2, B3, B4, B5, B6, B7, B8, C and F3 as the exchanges in these sub-rate bands, as listed in General Tariff (CRTC 21461) Item 212, *Forborne Business Local Exchange Services*, are forborne from regulation.

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B. ISDN-BRI HOME SERVICE (Continued)

2. Local Network Usage Charges

Local network usage is included in the access charge.

3. Terminal Equipment

ISDN-BRI Home Service requires compatible customer-provided equipment at the customer's premises. Connection of equipment is subject to the terms and conditions of Items 170 and 200.

4. Network Based Line Features

Calling Line Identification is included with ISDN-BRI Home service.

B.2., 3., and 4. moved to Page 1441.

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C. ALTERNATE VOICE & DATA PLUS OPTIONAL PACKET SERVICE

Alternate Voice & Data Service consists of the following components:

Access, Link, terminal equipment and other features and options.

1. Access

- (a) Provides the customer with a jack-ended digital local loop between the serving central office and the customer's premises.
- (b) This Access provides for a 2B or 2B+D configuration. The B channels are used for alternate circuit switched voice and data.
- (c) Access to the Company's public switched telephone network on the B channel is also provided.
- (d) The following rates and charges apply in addition to any other applicable rates and charges. (See also Item 465.C.1(e) below for automatic renewal of contract service.)

Access Lines	Rate Band	Rate Per Month	ISDN-BRI Centrex Rate			Service Charge (Note 2)
			Contract Period			
			1 Year (Note 1, 3)	3 Year (Note 1, 3)	5 Year (Note 1, 3)	
A1	N/A	N/A	N/A	N/A	N/A	
B1	N/A	N/A	N/A	N/A	N/A	
B2	N/A	N/A	N/A	N/A	N/A	
B3	N/A	N/A	N/A	N/A	N/A	
B4	N/A	N/A	N/A	N/A	N/A	
B5	N/A	N/A	N/A	N/A	N/A	
B6	N/A	N/A	N/A	N/A	N/A	
B7	N/A	N/A	N/A	N/A	N/A	
B8	N/A	N/A	N/A	N/A	N/A	
C	N/A	N/A	N/A	N/A	N/A	
D1	205.15	152.90	149.41	143.55	\$220.00	
D2	205.15	152.90	149.41	143.55	\$220.00	
D4	205.15	152.90	149.41	143.55	\$220.00	
E1	205.15	152.90	149.41	143.55	\$220.00	
E2	205.15	152.90	149.41	143.55	\$220.00	
E3	255.75	169.40	165.95	162.25	\$220.00	
E4	205.15	152.90	149.41	143.55	\$220.00	
F1	205.15	152.90	149.41	143.55	\$220.00	
F2	205.15	152.90	149.41	143.55	\$220.00	
F3	N/A	N/A	N/A	N/A	N/A	
F4	205.15	152.90	149.41	143.55	\$220.00	
G1	205.15	152.90	149.41	143.55	\$220.00	
G2	205.15	152.90	149.41	143.55	\$220.00	
G3	255.75	169.40	165.95	162.25	\$220.00	
G4	205.15	152.90	149.41	143.55	\$220.00	

- Notes: 1. Centrex customers must have a 50 station line minimum to be eligible for contract rates. A Centrex customer must have an existing Centrex contract. ISDN-BRI Access Centrex contractual rates will apply for the remainder of the Centrex contract period.
2. A service charge applies to standard parameter groupings as established by the Company. Non-standard parameter groupings are available to ISDN-BRI customers who subscribe to 2 or more ISDN-BRI or Centrex lines at General Tariff rates specified in Item 111.
3. The rates shown in this tariff do not apply to exchanges in Sub-Rate Bands A1, B1, B2, B3, B4, B5, B6, B7, B8, C and F3 as the exchanges in these sub-rate bands, as listed in General Tariff (CRTC 21461) Item 212, *Forborne Business Local Exchange Services*, are forborne from regulation.

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C. ALTERNATE VOICE & DATA PLUS OPTIONAL PACKET SERVICE (Continued)

1. Access (Continued)

(e) Automatic Renewal of ISDN-BRI Service Contracts:

Upon expiration of the contract period and subject to the following condition, the customer will be deemed to have agreed to commit to another immediately succeeding contract period of equal duration, and for an equal minimum monthly commitment level unless the customer has agreed to a contract period of a different duration and/or commitment level, or the service subscription has been terminated. C

- (i) All ISDN-BRI customers will be notified by the Company either on their monthly bill or by letter, at least sixty (60) days before the end of the current ISDN-BRI contract, as to when automatic renewal will take place, absent any indication by the customer to the contrary;

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C. ALTERNATE VOICE & DATA PLUS OPTIONAL PACKET SERVICE (Continued)

2. Link

- (a) The Link component provides the central office equipment required to connect Access B and D channels to specific services.
- (b) No Link charge applies to connect the Access B channel to the Company's PSTN for circuit switched calls.
- (c) Each Access B channel connected to specific toll and toll-free services of the Company is subject to the Company's applicable non-tariffed long distance toll and toll-free service rates and charges. This includes the appropriate link charge to connect an Access B channel to specific toll and toll-free services where applicable.
- (d) If connection to private and/or public packet switched data networks is required, the Access D channel is subject to a packet link charge as specified in F. following. The Access D channel is optional in this configuration.

3. Terminal Equipment

Service may be connected to compatible customer-provided equipment at the customer's premises, subject to terms and conditions of Item 170 and Item 200.

4. Other Features and Options

Optional features are available from the Centrex tariff, General Tariff (CRTC 21461) Item 213, Centrex Service. Optional features are available only where facilities exist and when feature interworking with ISDN-BRI is available. Not all optional features are available. C |

D. ALTERNATE VOICE & DATA PLUS PACKET SERVICE

Alternate Voice & Data Plus Packet Service consists of the following components:

Access, Link, terminal equipment and other features and options.

1. Access

- (a) Provides the customer with a jack-ended digital loop between the serving central office and the customer's premises.
- (b) The Access provides a IB+D configuration. The B channel is used for alternate circuit switched voice and data.
- (c) Access to the Company's public switched telephone network (PSTN) on the B channel is also provided.

See Page 41 for explanation of symbols.

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465 INTEGRATED SERVICES DIGITAL NETWORK - BASIC RATE INTERFACE (ISDN-BRI) SERVICE (Continued)

D. ALTERNATE VOICE & DATA PLUS PACKET SERVICE (Continued)

1. Access (Continued)

(d) The following rates and charges apply in addition to any other applicable rates and charges.

Access Lines (Notes 1 & 2)

<u>Rate Band</u>	<u>Rate Per Month</u>	<u>Service Charge</u>
A1	N/A	N/A
B1	N/A	N/A
B2	N/A	N/A
B3	N/A	N/A
B4	N/A	N/A
B5	N/A	N/A
B6	N/A	N/A
B7	N/A	N/A
B8	N/A	N/A
C	N/A	N/A
D1	113.19	275.00
D2	140.25	275.00
D4	113.19	275.00
E1	113.19	275.00
E2	140.25	275.00
E3	171.60	275.00
E4	113.19	275.00
F1	113.19	275.00
F2	140.25	275.00
F3	N/A	N/A
F4	113.19	275.00
G1	113.19	275.00
G2	140.25	275.00
G3	176.55	275.00
G4	113.19	275.00

2. Link

- (a) The Link component provides the central office equipment required to connect Access B and D channels to specific services.
- (b) No Link charge applies to connect the Access B channel to the Company's PSTN for circuit switched calls.
- (c) Each Access B channel connected to specific toll and toll-free services of the Company is subject to the Company's applicable non-tariffed long distance toll and toll-free service rates and charges. This includes the appropriate link charge to connect an Access B channel to specific toll and toll-free services where applicable.
- (d) The Access D channel is subject to a packet link charge as specified in F. following. The Access D channel is required in this configuration.

Note 1: An Alternate Voice & Data plus Packet Access does not count toward total Centrex station line volume.

Note 2: The rates shown in this tariff do not apply to exchanges in Sub-Rate Bands A1, B1, B2, B3, B4, B5, B6, B7, B8, C and F3 as the exchanges in these sub-rate bands, as listed in General Tariff (CRTC 21461) Item 212, *Forborne Business Local Exchange Services*, are forborne from regulation.

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465 INTEGRATED SERVICES DIGITAL NETWORK - BASIC RATE INTERFACE (ISDN-BRI) SERVICE (Continued)

D. ALTERNATE VOICE & DATA PLUS PACKET SERVICE (Continued)

3. Terminal Equipment

Service may be connected to compatible customer-provided equipment at the customer's premises, subject to terms and conditions of Items 170 and 200.

4. Other Features and Options

SmartTouch Services (with the exception of Call Return) are available on the Voice Access B channel at rates and charges specified in Item 143 C. Company-provided Integrated Voice Messaging Service (IVMS) is also available at rates and charges specified in Item 168-A. Customers providing their own VMS voice mailboxes may subscribe to the call forward busy/no answer feature in accordance with Item 168-A.

E. VOICE PLUS PACKET SERVICE

Voice plus Packet service consists of the following components:

Access, Link, terminal equipment and other features and options.

1. Access

- (a) Provides the customer with a jack-ended digital local loop between the serving central office and the customer's premises.
- (b) The Access provides a minimum 1VB+D configuration where the VB denotes a B channel used for circuit switched voice only. An optional associated second VB channel is available beyond the minimum 1VB+D configuration.
- (c) The monthly rates for individual business line service (Item 32) apply for each VB channel in the 1VB+D or 2VB+D configurations. Touch Calling Service is included in the monthly rate.
- (d) The monthly rates provide access to the Company's PSTN on the VB channel(s).
- (e) For new installations or conversions from other access arrangements, service charges as specified in Item 111 will apply. For conversions from business individual lines these charges do not apply.

2. Link

The Link component provides the central office equipment required to connect the Access VB and D channels to specific services.

- (a) No Link charge applies to connect the Access VB channel(s) to the Company's PSTN.
- (b) Each Access B and VB channel connected to specific toll and toll-free services of the Company is subject to the Company's applicable non-tariffed long distance toll and toll-free service rates and charges. This includes the appropriate link charge to connect an Access B channel to specific toll and toll-free services where applicable.

See Page 41 for explanation of symbols.

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465 INTEGRATED SERVICES DIGITAL NETWORK - BASIC RATE INTERFACE (ISDN-BRI) SERVICE (Continued)

E. VOICE PLUS PACKET SERVICE (Continued)

2. Link (Continued)

(c) Each Access D channel is subject to a D channel packet link charge. See F. following. The Access D channel is required in this configuration.

3. Terminal Equipment

This service may be connected to compatible customer-provided equipment at the customer's premises, subject to terms and conditions of Items 170 and 200.

4. Other Features and Options

Calling Features are available on the Access VB channel(s) at rates and service charges specified in General Tariff CRTC 21461 Item 300.

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F. D CHANNEL PACKET LINK

1. This provides the central office equipment required to connect the Access D channel for ISDN-BRI services to the digital network facilities used to reach private and/or public packet switched data networks.
2. The D channel packet link monthly rate provides for one Packet Directory Number (PDN) and one Switched Virtual Channel (SVC).
3. Additional PDNs are available on the D channel packet link. One SVC is required per PDN.
4. Incoming and outgoing customer data on the D channel packet link is charged on a per segment basis.
5. The following rates and charges apply to the D channel packet link, and are in addition to other applicable rates and charges.

	<u>Rate Per</u> <u>Month</u>	<u>Service</u> <u>Charge</u>	
(a) D channel packet link (Note 1)	\$63.00	\$275.00 (Notes 2&3)	A
(b) Customer data is charged for at a rate of \$2.50 per Kilosegment.			
(c) Additional PDN (each)	5.40	--	

- Notes:
1. One D channel packet link is required per Alternate Voice and Data plus Packet and per Voice plus Packet service.
 2. Applies to each D channel packet link installation, whether provided at the same time as, or subsequent to, the associated ISDN-BRI access. For subsequent installations, rates as specified in Item 111 also apply.
 3. For conversions from Datapac 3201 access, these charges do not apply for a six month period from the effective date of this tariff or from when a customer's serving central office is equipped with this service.

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465 INTEGRATED SERVICES DIGITAL NETWORK - BASIC RATE INTERFACE (ISDN-BRI) SERVICE (Continued)

G. ISDN X.75 GATEWAY ACCESS SERVICE FOR PRIVATE OR PUBLIC NETWORK PROVIDERS

1. This provides the digital network facilities, on a DS-1 basis, between a Company central office equipped for ISDN-BRI services and a private or public packet switched data network. The facilities provide the means for a customer of the Company, who uses the D channel for packet switched applications, to reach the private or public network provider's packet switched data network.
2. ISDN X.75 Gateway access service is provided subject to the availability of suitable facilities, in accordance with Digital Network Access, General Tariff CRTC 21461, Item 500. C

H. LOOP EXTENSION

1. Loop extensions to provide ISDN-BRI services beyond the normal transmission range are provided subject to the availability of suitable facilities.
2. The following rates and charges apply in addition to any other applicable rates and charges:

	<u>Rate Per</u> <u>Month</u>	<u>Service</u> <u>Charge</u>
Loop extension, each	\$ 160.50	\$ 110.00

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I. CONDITIONS

The following conditions apply to all ISDN-BRI Services: C

1. ISDN-BRI services are provided at the Company's discretion within an exchange, subject to the availability of suitable facilities. The Company determines the exchanges where service will be provisioned. |
2. Standard service charges, as specified in this Item, shall apply for the installation of ISDN-BRI service and other facilities. Should it be necessary to incur any unusual expense to meet special requirements, an extra charge may be made, based on the cost of the equipment or service provided. C
3. Terminal equipment, either Company-provided or customer-provided, is connected to ISDN-BRI services access under the terms and conditions of Item 170 and Item 200. One NT-1 network termination device, either Company-provided or customer-provided, is required per ISDN-BRI access. C
4. ISDN-BRI accesses may not be available in all areas of the serving central office due to transmission limitations. C
5. ISDN-BRI access rates are based on the average traffic per access line. The limits based on the non D channel access usage are in the following centum call seconds (ccs) table: C

ISDN-BRI Home 2B	5 ccs, equates to 100 B channel hours per month	C
2B, 2B+D	17 ccs, equates to 340 B channel hours per month	
1B+D	9 ccs, equates to 180 B channel hours per month	
1VB+D	5 ccs, equates to 100 B channel hours per month	
2VB+D	9 ccs, equates to 180 B channel hours per month	

Usage is recorded separately for each B channel. For ISDN-BRI accesses configured with two B channels, the limit applies to the aggregate usage by the two channels. C

6. For inside wire installation or rearrangements, rates as specified in Item 170 11. apply.