

DATA SERVICES

INDEX DATA SERVICES – SECTION 900

<u>DESCRIPTION</u>	<u>ITEM</u>	<u>PAGE</u>
ADSL – Asymmetrical Digital Subscriber Line – Rates & Service Charges	10	13-14
N CCS7 TRANSITING SERVICE	12	16-17
DCS – Digital Channel Service – Rates & Service Charges.	4	6
DEA – Digital Exchange Access	6	8
DEA – Rates & Service Charges	6	8
DEFINITIONS – DATA SERVICES	1	2-4
DID – Direct Inward Dialing	8	11
DNA – Digital Network Access (DS-0, DS-1 & DS-3)	5	7
DS-0 – Rates & Service Charges	5	7
DS-1 – Rates & Service Charges	5	7
DS-3 – Rates & Service Charges	5	7
ISDN DTCI PORT	7	9 & 10
ISDN PRI – Integrated Services Digital Network Primary Rate Interface	7	9 & 10
ISDN PRI – Rates & Service Charges	7	10
ISP – Internet Service Provider Link Service	9	11 & 12
ISP – Rates & Service Charges	9	12
ISP Link	9	11 & 12
SMDI – Rates & Service Charges	2	4
SMDI – Simplified Message Desk Interface	2	4

DATA SERVICES

INDEX DATA SERVICES – SECTION 900 (Cont'd)

Switch 56 Data Service – Rates & Service Charges	3	5
N Trunk-side Interconnection	11	15

DATA SERVICES

1. DEFINITIONS

ACCESS – Provides the appropriate analog or digital facilities between the serving wire centre and the customer's premises.

N ADSL – ASYMMETRIC DIGITAL SUBSCRIBER LINE – transmission technology that provides high-speed transmission of data between the end user(s) and the service provider. The end-user will simultaneously be able to receive telephone service over the common copper loop.

CHANNELIZING FEATURE – Enables a DS-1 access to be connected to DS-0 channels.

DCS – DIGITAL CHANNEL SERVICE – Digital transmission of information between two points in the same exchange, adjoining exchanges and/or non-adjoining exchanges.

DEA – DIGITAL EXCHANGE ACCESS – Digital connection to the Public Switched Telephone Network (PSTN) and a DS-1 Access from the customer's premises.

DID – DIRECT INWARD DIALLING – Provides necessary CO equipment to permit Inward Dialling to a company or customer-provided PBX local.

DS-0 INTER/INTRA-EXCHANGE CHANNEL – A digital facility providing transmission rate up to 64 Kbps between the customer's serving wire centre and the rate centre in cases where the serving wire centre is not the rate centre. It also provides the digital channel facility between wire centres in the same exchange.

DS-1 INTER/INTRA-EXCHANGE CHANNEL - A digital facility providing transmission rate up to 1.544 Mbps between the customer's serving wire centre and the rate centre in cases where the serving wire centre is not the rate centre. It also provides the digital channel facility between wire centres in the same exchange.

DS-3 INTER/INTRA-EXCHANGE CHANNEL – A digital facility providing transmission rate up to 44.736 Mbps between the customer's serving wire centre and the rate centre in cases where the serving wire centre is not the rate centre. It also provides the digital channel facility between wire centres in the same exchange.

EXCHANGE - Basic unit for the administration and furnishing of telephone service, and normally includes a city, town or village and adjacent parts.

DATA SERVICES

DEFINITIONS (Cont'd)

ISDN DTCI PORT – Provides the connecting port between a DS-1 Access and the Switch, the required call control and signalling for the B-channels and incorporates touch tone and equivalency capabilities for ISDN PRI Service.

ISDN - PRI – INTEGRATED SERVICES DIGITAL NETWORK PRIMARY RATE INTERFACE – International Standard method of end to end digital connectivity to the PSTN to support a wide range of services such as Voice, Data, Graphics and Image. Primary Rate Interface is a service for the digital transmission of information at 1.544 Mbps between the Company’s serving wire centre and ISDN compatible equipment. This service consists of 23 “B” (Bearer) channels operating at 64Kbps and one “D” channel at 64 Kbps for associated signalling and control.

ISP – INTERNET SERVICE PROVIDER LINK SERVICE – provides an integrated access service to connect incoming data to an ISP’s equipment.

LINK - provides the central office equipment required to connect:
- an access to an intra-exchange channel
- an access to a network service at the rate centre
- an intra-exchange channel to a network service at the rate centre
- an access to an access

PSTN - Public Switched Telephone Network

RATE CENTRE - Each exchange is designated as a rate centre and the same message toll rates apply to all telephones served by one exchange.

SERVING WIRE CENTRE - A facility from which the customer derives service.

STATION EQUIPMENT – Equipment located at the Customer’s premises providing the digital interface between the customer’s data equipment and the access facility.

TRUNK-SIDE INTERCONNECTION – Digital connection to the Public Switched Telephone Network (PSTN) supported by ISUP CCS7 signalling and a DS-1 Access from the customer’s premises.

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DATA SERVICES

2. SIMPLIFIED MESSAGE DESK INTERFACE (SMDI)

2.01 GENERAL

Simplified Message Desk Interface (SMDI) provides integration between a central office and an external Voice Message System using SMDI technology. SMDI access arrangements allow voice information to be transferred between the switching equipment and an external Voice Messaging System on individual line service. SMDI provides the capability of answering calls and recording messages associated with these calls.

2.02 MONTHLY RECURRING RATES AND SERVICE CHARGES

ITEM CODE	DESCRIPTION	MRC	SC
9200	Data access port each	285.00	MESC
9201	Voice access lines each	50.00	MESC

DATA SERVICES

3. SWITCH 56 DATA SERVICE

3.01 GENERAL

- a) Switch 56 Data Service provides customers with digital end to end connectivity through the (PSTN) Public Switched Telephone Network by using the access components of a local access line and a digital Data Service Unit.
- b) Switch 56 service functions in the Central Office when the serving address is 4.0 cable kilometers using 26 gauge cable or 5.5 cable kilometres using 22 or 19 gauge cable from the Serving Wire Centre. Beyond this distance, a special assembly is required.
- c) Switch 56 Data Service is subject to the availability of suitable facilities. Multi-point and multi-drop configurations are not available.
- d) This service feature provides for digital call completion at speeds of up to 56 Kbps and allows the company to offer switched high-speed digital applications.
- e) Switch 56 Data Service Unit is a stand-alone unit located at the customer premises that interfaces the network to provide an all-digital data transmission loop to the serving wire centre. This Unit terminates on a 6-position connection arrangement. This unit is offered on a monthly rental, see Competitive Terminal for pricing.

3.02 MONTHLY RECURRING RATES AND SERVICE CHARGES:

ITEM CODE	DESCRIPTION	MRC	SC
9002	Switch 56 Data Service Feature	45.50	MESC

DATA SERVICES

4. DIGITAL CHANNEL SERVICE - (DCS)

4.01 GENERAL

- a) DIGITAL CHANNEL SERVICE - (DCS) is a local service furnished where suitable facilities are available for digital transmission of information at speeds of less than 1.2, 1.2, 2.4, 4.8, 9.6, 19.2, 56.0 or 64 Kbps between two points in the same exchange, adjoining exchanges and/or non-adjoining exchanges.
- b) The Company will determine the serving areas subject to the availability of suitable facilities. Multi-point and Multi-drop configurations are not available. A construction charge may be required if suitable facilities are not available. Each request will be addressed individually.
- c) Existing analog service will be maintained until suitable digital facilities are available.

4.02 MONTHLY RECURRING RATES AND SERVICE CHARGES:

ITEM CODE	DESCRIPTION	MRC	SC
9006	DCS Access-each service point – all speeds	60.00	300.00
9007	DCS Link – each wire/rate centre (max. 2)	60.00	N/A
9008	DCS Channel-inter/intra-exchange–all speeds	50.00	N/A
9009	DCS-Change in operating speed	N/A	150.00

DATA SERVICES

5. DIGITAL NETWORK ACCESS (DNA) (DS-0, DS-1 & DS-3)

5.01 GENERAL

The Company will determine the serving areas subject to the availability of suitable facilities. A construction charge may be required if suitable facilities are not available. Each request will be addressed individually.

5.02 MONTHLY RECURRING RATES AND SERVICE CHARGES

Each Digital Network Access will comprise of at least One Access + One Link Charge. An Inter/Intra Channel Charge applies if the circuit is through more than one Serving Wire/Rate Centre. Channelizing feature is charged if less that the full circuit (DS-1 = 24 DS-0 Channels) is used.

ITEM CODE	DESCRIPTION	MRC	SERVICE CHARGE
9010	DS-1 Access – Non Contracted	400.00	700.00
9011	DS-1 Access – 1 Year Contract	330.00	700.00
9012	DS-1 Access – 3 Year Contract	280.00	700.00
9013	DS-1 Access – 5 Year Contract	230.00	700.00
9014	DS-1 Link	60.00	N/A
9015	DS-1 Channelizing Feature	90.00	125.00
9016	DS-1 Inter/Intra – Exchange Channel	240.00	N/A
9017	DS-0 Inter/Intra – Exchange Channel	20.00	N/A
9020	DS-3 Access – Non Contracted	2950.00	2000.00
9023	DS-3 Access – 1 Year Contract	1900.00	2000.00
9024	DS-3 Access – 3 Year Contract	1700.00	2000.00
9024	DS-3 Access – 5 Year Contract	1600.00	2000.00
9021	DS-3 Link	100.00	N/A
9022	DS-3 Inter/Intra – Exchange Channel	1000.00	N/A

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DATA SERVICES

6. (DEA) DIGITAL EXCHANGE ACCESS

6.01 GENERAL

- (a) The Company will determine where DEA service is provided subject to the availability of suitable facilities. A construction charge may be required if facilities are not available. Each request will be addressed individually.
- (b) DEA provides a digital connection to the Public Switched Telephone Network (PSTN) and the DS-1 Access from the customer's premises or other service point. DEA service requires PSTN Connectivity between DS-1 Access Facility and the PSTN. Each PSTN Connection is subdivided into DS-O time slots and is available in a 2-way configuration.
- (c) Five Direct Inward Dialing (DID) numbers are provided for each DS-1 access. Additional DID numbers may be subscribed to in Section 900 – 8.

6.02 (DEA) Service consists of the following components:

- (a) DS-1 Access and appropriate charges (Section 900 – 5)
- (b) PSTN Connection charges – per DS-1 (below)(in lieu of DS-1 Link Charges)
- (c) PSTN Connectivity charges – per DS-0 (below)

6.03 (DEA) MONTHLY RECURRING RATES AND SERVICE CHARGES

ITEM CODE	DESCRIPTION	MRC	SERVICE CHARGE
9600	DEA PSTN Connection – per DS-1	216.00	\$250.00*
9601	DEA PSTN Connectivity – per DS-0	32.00	50.00

* A Service Charge applies for the first PSTN connection/customer. After initial installation, service charge will apply to any subsequent activity.

DATA SERVICES

7. (ISDN PRI) INTEGRATED SERVICES DIGITAL NETWORK PRIMARY RATE INTERFACE SERVICE

7.01 GENERAL

- (a) The Company will determine where ISDN PRI service is provided subject to the availability of suitable facilities. A construction charge may be required if facilities are not available. Each request will be addressed individually.
- (b) This service is a method of direct digital access to the Public Switched Telephone Network (PSTN) and the Digital Switched Network (DSN) based upon an international standard. ISDN PRI provides end to end digital connectivity to support a wide range of services such as Voice, Data, Graphics and Image. ISDN may be connected at the customer's premises to company provided or compatible customer provided equipment.
- (c) Five Direct Inward Dialing (DID) numbers are provided for each DS-1 access. Additional DID numbers may be subscribed to in Section 900 – 8.
- (d) ISDN PRI is furnished for the digital transmission of information at 1.544 Mbps between the Company's serving wire centre and compatible terminal equipment at the customer's premises or other service point. This service consists of 23 "B" (Bearer) channels operating at 64 Kbps and carrying customer information for voice, data and image and one "D" channel at 64 Kbps for associated signalling and control. This service is delivered via DS-1 Access technology to the customer location.
- (e) Translation Changes involve subsequent installation of additional accesses and/or D-Channels, PSTN Connectivity's or each time the DS-1 system group is modified at the customer's request.

DATA SERVICES

7. (ISDN PRI) INTEGRATED SERVICES DIGITAL NETWORK PRIMARY RATE INTERFACE SERVICE (Cont'd)

7.02 (ISDN PRI) Service consists of the following components:

- (a) DS-1 Access and appropriate charges (Section 900 – 5)
- (b) ISDN DTCl PORT per DS-1 - provides the PSTN connection plus one (1) ISDN Signalling Channel (D- Channel) (below)(in lieu of DS-1 Link Charges)
- (c) PSTN Connectivity per DS-0 (below)
- (d) Additional Components as required (below).

7.03 (ISDN PRI) MONTHLY RECURRING RATES AND SERVICE CHARGES

ITEM CODE	DESCRIPTION	MRC	SC
9700	ISDN DTCl Port, per DS-1 – Monthly	336.00	\$830.00
9701	ISDN DTCl Port, per DS-1 – 1 Year	170.00	\$830.00
9703	ISDN DTCl Port, per DS-1 – 3 Year	140.00	\$830.00
9704	ISDN DTCl Port, per DS-1 – 5 Year	120.00	\$830.00
9705	PSTN Connectivity – per DS-0	32.00	*
9706	Additional “B” Channels	100.00	**\$250.00
9707	Backup “D” Channel	25.00	\$250.00
9708	Type A Link, per Link	8.00	*
9709	Translation Changes	--	\$250.00

* Subsequent to the initial installation of translations, a charge applies

** Includes required translations

DATA SERVICES

8. DIRECT INWARD DIALING:

8.01 GENERAL

Direct Inward Dialling provides the necessary Central Office equipment to permit DID to a company or customer-provided PABX local, subject to availability of suitable facilities. Direct Inward Dialling may be provided on either DEA or ISDN Access and may be required for additional numbers for ISP Internet Service Provider Link Service.

8.02 MONTHLY RECURRING RATES & SERVICE CHARGES

ITEM CODE	DESCRIPTION	MRC	SERVICE CHARGE
9800	DID – Direct Inward Dialling	6.90	MESC

9. (ISP) INTERNET SERVICE PROVIDER LINK SERVICE

9.01 GENERAL

- a) ISP Internet Service provides an integrated access arrangement using (DEA) Digital Exchange Access or (ISDN) Integrated Service Digital Network (PRI) Access Service to connect incoming data to an (ISP) Internet Service Provider's equipment.
- b) The Company will determine where ISP Link Service will be provided, subject to the availability of suitable facilities. A construction charge may be required if facilities are not available. Each request will be addressed individually.
- c) ISDN PRI or DEA connect ISP links with incoming data using up to five access telephone numbers and five trunk groups per DEA system group, as required. Additional telephone numbers may be obtained based on rates specified in the company's Direct Inward Dialling Service (Section 900 - 8).
- d) ISP Links may not be used to provide other services like the termination of 900 & 976 calls and ordinary voice communication. An exception, ISP Links can terminate 800/888/877 calls.

DATA SERVICES

9. (ISP) INTERNET SERVICE PROVIDER LINK SERVICE (Cont'd)

9.02 MONTHLY RECURRING RATES AND SERVICE CHARGES

- a) DS-1 Access and appropriate charges (Section 900-5)
- b) PSTN Connection (either DEA or ISDN PRI rates apply) (in lieu of DS-1 Link Charges)
- c) ISP Links per DS-0 (in lieu PSTN Connectivity per DS-0)
- d) Equivalent service is included in the monthly rate for ISP links
- e) Network Ring Again, Calling Name & Number Identification are not available with ISP Link service.

ITEM CODE	DESCRIPTION	MRC	SERVICE CHARGE
9900	ISP LINK per DS-0	22.00	25.00 maximum 575.00

DATA SERVICES

N 10. (ADSL) ASYMMETRIC DIGITAL SUBSCRIBER LINE ACCESS SERVICE**10.01 GENERAL**

a) The Asymmetric Digital Subscriber Line (ADSL) Access Line Service tariff provides ADSL Service Providers with access to a Residence or Business customer's line for the purpose of connecting the line to the Service Provider's own ADSL equipment, which is located at the Company's serving wire centre and in the end user's premises. This gives the ADSL Service Provider the capability to provide high-speed digital data transmission on the same line that the End-user has Primary Exchange Service.

b) Definitions for the purpose of this tariff:

- Asymmetric Digital Subscriber Line (ADSL) is a transmission technology that provides high-speed transmission of data between the end-user(s) and the Service provider. The end-user will simultaneously be able to receive telephone service over the common copper loop.
- End-user is the ultimate user of the high-speed digital service applications.
- Customer is the ADSL Service Provider subscribing to the Company's Digital Subscriber Line Access to Line Service
- MDF is the Main Distributing Frame
- Service Provider is a provider of Asymmetric Digital Subscriber Line (ADSL) service

10.02 CONDITIONS OF SERVICE

- a) This service is available in selected wire centres (host switch or switch remote) as determined by the Company and is subject to the availability of suitable facilities.
- b) This service is restricted to End-users that subscribe to the Company's Primary Exchange Service, specifically Residence Single Line Access Service or Business Single Line Access Service, at rates specified in the Company's General Tariff.
- c) The ADSL Service Provider must provide a letter of authorization on behalf of the Primary Exchange Service End-user to the Company before the Company will allow the Service Provider access to the End-user's line.
- d) This service will not be available on lines where the distance exceeds limitations, excessive bridge taps are present, loading coils are present, or metallic continuity cannot be maintained.
- e) Where it is necessary for the Company to install special equipment or to incur any unusual expense in order to meet the requirements of an ADSL Service Provider, an additional charge may be assessed to the Service provider based on the equipment installed or the unusual expense incurred.
- f) The Service Provider's ADSL equipment must be certified in accordance with Industry Canada Certification Specification CS-03.

DATA SERVICES

- g) The Company does not guarantee the level of transmission service performance provided by the ADSL Service Provider over the line.
- h) Due to regular grooming and upgrading of the Company's telecommunications network, the Company cannot guarantee the ongoing access to a line for the purpose of facilitating the provision of ADSL Access to Line Service.
- i) If an End-user cancels their Primary Exchange Service or if it is otherwise removed from service, billing for ADSL Access to Line Service will continue until the ADSL Service Provider has informed the Company that the ADSL Access to Line Service is to be terminated.
- j) This service will only be terminated to the ADSL equipment located in the serving wire centre. ADSL equipment located in the Company's wire centres will be governed through space and power requirements as negotiated with the customer.

10.03 **RATES AND CHARGES**

<u>Charge</u>	<u>Monthly Rate</u>	<u>Service</u>
Asymmetric Digital Subscriber Line (ADSL) Access to Line Service tariff	\$10.00	\$100.00

DATA SERVICES

11. TRUNK-SIDE INTERCONNECTION

11.01 GENERAL

- (a) The Company will determine where Trunk-side Interconnection service is provided subject to the availability of suitable facilities. A construction charge may be required if facilities are not available. Each request will be addressed individually.
- (b) Trunk-side Interconnection provides the common equipment and facilities in the serving wire centre, the exchange and other exchanges required to terminate a Trunk-side Access Channel in the Company's servicing wire centre and to process a call on the Company's public switched telephone network to the Company's subscribers in the local calling area of the originating exchange. DEA provides a digital connection to the Public Switched Telephone Network (PSTN) and the DS-1 Access from the customer's premises or other service point. DEA service requires PSTN Connectivity between DS-1 Access Facility and the PSTN. Each PSTN Connection is subdivided into DS-O time slots and is available in a 2-way configuration.
- (c) Trunk-side Interconnection Trunk charges, each.

ITEM CODE	DESCRIPTION	MRC	SERVICE CHARGE
-	Each Trunk-side Interconnection Trunk, to a maximum of 24 trunks, or – per DS-1	30.00	\$264.00
-	Each Trunk-side Interconnection Trunk, to a maximum of 48 trunks, or – per DS-1	38.00	\$264.00
	Each Trunk-side Interconnection Trunk, to a maximum of 72 trunks, or – per DS-1	42.00	\$264.00
-	Each Trunk-side Interconnection Trunk, to a maximum of 84 trunks, or – per DS-1	43.00	\$264.00
-	More than 84 Trunk-side Interconnection Trunks, each trunk	44.00	\$264.00

DATA SERVICES

- (d) Trunk-Side Access Channel is provided over digital network services of the Company. Such a system provides 24 digital access channels between a servicing wire centre and a mutually agreed upon Point of Interconnection. For each digital access channel, the rates are in accordance with Section 900 – 5 of the Company’s General Tariff.
- (e) In addition to the monthly rate, service charge and construction charge for each Trunk-side Access channel and applicable for each customer termination, are the monthly rates and related service charges for the Trunk-side Interconnection Trunks, as identified in Section 900 – 12 of the Company’s General Tariff.

12 CCS7 TRANSITING CHARGE

- (a) CCS7 Signalling Interconnection will provide WSP’s using trunk-side interconnection with the ability to interconnect their own CCS7 signalling network with the Company’s CCS7 signalling network in order to exchange the ISUP signalling information necessary to support the completion of calls between the two networks. CCS7 Signalling Interconnection is subject to the availability of suitable equipped facilities.
- (b) The Company’s ability to offer CCS7 Signalling interconnection is based on the WSP having the appropriate links in place between the WSP’s STPs and a Bell Canada gateway STP.
- (c) CCS7 Signaling Charges are components of CCS7 Signaling Interconnection with applicable rates and charges. The rates and charges that are identified are in addition to those identified for Trunk-side Access.

ITEM CODE	DESCRIPTION	MRC	SERVICE CHARGE
-	Basic CCS7 Transiting Service (See notes 1 & 5)	\$420.90	
-	Enhanced CCS7 Transiting Service (See notes 1 & 5)	\$516.66	
-	Competitive LNP-SCP (Notes 1 & 2)	\$698.28	

DATA SERVICES

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-	Initial Service Charge – per order (See Note 3)	-	\$2,732.40
-	Subsequent Service Charge – per order (See Note 4)	-	\$1,792.16

- Note 1:** The monthly rate for Basic and Enhanced CCS7 Transit Services or CCS7 transit to a competitive LNP SCP service applies per ILEC territory.
- Note 2:** A competitive LNP SCP service provider must subscribe once for each of its customers using the CCS7 Transit to a competitive LNP SCP service and for each ILEC territory where its customers operate.
- Note 3:** A service charge of \$2,732.40 applies per order, for an initial CCS7 transit service request independently from the type of CCS7 Transit service ordered, the number of locations within an ILEC’s territory, the number of ILEC’s territories where transiting is requested or the number of carriers associated with the transit arrangements.
- Note 4:** A service charge of \$1,792.16 applies per order, for a subsequent CCS7 transit service request independently from the type of CCS7 Transit service ordered, the number of locations within an ILEC’s territory, the number of ILEC’s territories where transiting is requested or the number of carriers associated with the transit arrangements.
- Note 5:** A LEC must subscribe once for each of its customers using the CCS7 Transit service to connect to its BNS database and for each ILEC territory in which its customers operate.