

DIGITAL NETWORK SERVICES

ITEM

437 MANAGED DIGITAL PRIVATE LINE (MDPL) SERVICE

A. GENERAL

1. MDPL Service provides for the transmission of voice, data and image information over digital channels in multiples of 64 Kbps (DS-0) between two points in the same exchange or between exchanges or between an exchange and an international border crossing point.
2. This service is forborne from regulation, pursuant to Telecom Decision CRTC 97-20, when it is provided on the cross-sections identified in TCI Tariff CRTC 21461, Item 508.
3. For existing outstanding customer agreements that were originally signed under former National Services Tariff CRTC 7400-E, Item 303 (the Original Agreement) which include MDPL Service provisioned by the Company, the Company shall continue to provide service pursuant to the terms of the Original Agreement until the expiry date of the Original Agreement, and in accordance with the provisions specified in Item 437.
4. For current information on rates, charges and conditions of service of former Stentor member companies other than the Company, see National Services Tariff CRTC 7400-E, Item 303 or the tariffs of the respective former Stentor member companies as applicable.
5. Effective 2004 10 06, MDPL Service is no longer available to new customers. This service continues to be available to existing customers.

B. DEFINITIONS

"Basic Control" provides for control of the proprietary network elements included under a Network Management and Control System (NMCS) and for the provision of network reports.

"Enhanced Network Management" provides flexible end-to-end management of the proprietary network elements included under NMCS and for the provision of network reports. It features a graphical user interface architecture.

"Feeder Multiplexing Equipment (FME)" is equipment located at the customer's premises that processes multiple signals onto Digital Network Access(s). It has a capability of DS-0 output channels.

"Managed Digital Private Line Terminating Equipment (MTE)" provides the customer with a multiplexer interface to the DS-1 access at the individual circuit level together with the ability to process multiple signals onto the high speed (1.544 Mbps) output.

"Managed Digital Private Line Terminating Equipment Circuit Expansion Unit" provides equipment at the customer's premises to expand the initial bandwidth capacity.

"Managed Digital Private Line Terminating Unit (MTU)" is equipment located at the customer's premises that processes signals onto a Digital Network Access. It has a capacity of up to 64 Kbps per channel with dual channel operation and up to 128 Kbps with single channel operation.

"Network Control" provides for DS-0 switching at the rate centre and for temporary DS-0 capacity, booked on a reserved, as available basis.

"Network Management and Control System (NMCS)" enables customers to manage and control their network. Features include circuit level activation and deactivation, circuit testing, network statistics, and alarm processing and reporting.

"Service Extension" refers to equipment in the rate centre which permits the extension of MDPL Service to other customer service locations.

"Stentor Carrier Administered Network Management Control System" controlling equipment may be located on the Company (or the former Stentor Carrier's) premises with basic control performed by the Company (or the former Stentor Carrier's) personnel for an additional management fee.

ITEM 437 - MEGASTREAM SERVICE transferred from National Services Tariff CRTC 7400-E, Item 303, before renamed to MDPL Service.

See Page 41 for explanation of symbols.

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437 MANAGED DIGITAL PRIVATE LINE (MDPL) SERVICE (Continued)

C

C. CONDITIONS

1. MDPL Service shall be provided at the Company's and the respective former Stentor Carriers' discretion, within and between exchanges subject to the availability of suitable facilities and equipment.
2. The Company and the respective former Stentor Carriers shall determine the exchanges from where service shall be provided.
3. Multi-point and multi-drop configurations are available for circuits terminating on Managed Digital Private Line Terminating Units.
4. MDPL DS-1 Access and DS-3 Access (Item 447) (and the equivalent tariff items of other former Stentor Carriers) are offered on a monthly basis, with restriction, or on a one to five-year Minimum Contract Period basis. Other MDPL Service components are offered on a monthly basis or under a Customer Volume Pricing Plan as detailed in TCI Tariff CRTC 21461, Item 504 (and the equivalent tariff items of other former Stentor Carriers).
5. When it is necessary to install special equipment or to incur an unusual expense to establish MDPL Service, the customer shall pay an additional charge based on the equipment installed and the unusual expense incurred.
6. MDPL Service may be connected (by way of MDPL station equipment) to either customer or Company (or former Stentor Carrier) provided terminal equipment located beyond the terminating equipment at the customer's premises.
7. The customer is solely responsible for the installation, operation and maintenance of customer provided terminal equipment.
8. A separate wire centre may be designated as Special Routing Office. In such cases, charges for local channel facilities will be calculated based on the distance measured from the customer's normal serving wire centre, and charges for interexchange channel facilities will be calculated based on the distance measured from the normal rate centre. In addition, the customer shall pay channel charges between the customer's normal serving wire centre and the rate centre, where applicable.
9. Service Extension to the customer's premises or interconnection to other services except Digital Channel Services may be provided via the rate centre or diversity office served by MDPL Service.
10. Dedicated MTE may be located at the customer's premises or at the former Stentor Carriers' rate centre or diversity office.
11. Customer terminal equipment attached to the Company's (or former Stentor Carriers') network must be certified or connected through a certified network protection device in accordance with Item 200, Terminal Attachment Program, and other former Stentor Carriers' Terminal Attachment Standards as applicable.
12. MDPL Service may be connected to other Company or former Stentor Carrier services subject to the rates and conditions of service as specified in the Company's and other former Stentor Carriers' Tariff. As an exception, Digital Private Line Service Extension Features (TCI Tariff CRTC 21461, Item 506) may not be connected to Digital Channel Services.
13. Channel capacity shall be required to accommodate such overheads as signalling and/or supervision over the MDPL Service.

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C. CONDITIONS (Continued)

14. The FME and MTU may be connected to other MDPL station equipment located at the customer's premises.
15. For MTU dual channel operation, an MTU port is required on the MTE or FME to which the MTU is connected, for each circuit terminating on the MTU.
16. DS-1 and DS-3 Access Special Routing may be provided at rates and charges contained in Access Special Routing, Item 448 (and the equivalent tariff items of other Incumbent Carriers), if the customer's premises are located on a route where the Company and the respective Incumbent Carrier involved have sufficient and diverse facilities. In cases where sufficient and diverse facilities do not exist, Access Special Routing may be provided based on the costs incurred or via special assembly.
17. From 2000 11 06 to 2001 05 07 customers can terminate MDPL Service on a non-forborne cross-section and subscribe to other Company services without the application of service charges for the replacement Company service. Also, customers can terminate MDPL Service on a non-forborne cross-section and migrate to a competitor's offering.

In both cases, if the sum of the customer's eligible charges under the Customer Volume Pricing Plan (CVPP) falls below the contracted Minimum Monthly Billing Commitment (MMBC) as a result of the migration described above, the customer may decrease the MMBC to the lower MMBC level, without liability and with the same contract term.

In the event that the termination of MDPL Service on non-forborne cross-sections results in a total termination of the CVPP contract, no termination charges associated with the CVPP contract would apply.

18. Access via other Company (or Incumbent Carrier) services from the customer's premises to a Basic or Enhanced Service Extension Feature located in the Company (or Incumbent Carrier) rate centres may be provided as detailed in TCI Tariff CRTC 21461, Item 506 (and the equivalent tariff items of other Incumbent Carriers).

D. RATES (Note 1)

The customer shall pay the following MDPL rates and charges for each appropriate MDPL Service item required to establish a customer's network.

1. Station Charges for each customer service location:

(a) Terminating Equipment:

	<u>Rate Per</u> <u>Month</u>	<u>Service</u> <u>Charge</u>
(i) MTE, each.....	\$ 990.00 A	\$ 1,300.00
(ii) MTE Expansion Unit, each.....	352.00 A	300.00
(iii) FME, each.....	495.00 A	650.00 (Note 2)
(iv) MTU, each.....	55.00 A	175.00 (Note 2)

- Notes:
1. For current information on rates, charges and conditions of service of former Stentor member companies other than the Company, see National Services Tariff CRTC 7400-E, Item 303 or the tariffs of the respective former Stentor member companies, as applicable.
 2. An Access Service Charge as specified in Digital Network Access, Item 447 (and the equivalent tariff items of other Incumbent Carriers), shall apply whenever an FME is replaced by an MTU, or vice-versa, due to the required reconfiguration of the Digital Network Access.

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437 MANAGED DIGITAL PRIVATE LINE (MDPL) SERVICE (Continued)

D. RATES (Continued)

1. Station Charges for each customer service location: (Continued)

(b) FME/MTE Circuit Terminations:

	<u>Rate Per</u> <u>Month</u>	<u>Service</u> <u>Charge</u>
(i) Analogue Termination, each circuit, each end		
- 2/4 wire E&M Signalling	\$ 55.00 A	(Note 1)
- Low Bit Rate Voice (LBRV) (Note 2).....	55.00 A	(Note 1)
(ii) Digital Termination, each circuit, each end		
- Low Speed Ports.....	55.00 A	(Note 1)
- Synchronous Ports.....	55.00 A	(Note 1)
- Dataphone Digital Service (DDS) Compatible Ports..	55.00 A	(Note 1)
- High Speed Ports (DS-1).....	412.50 A	(Note 1)
- each DS-0 time slot activated	----	(Note 1)
- Echo Cancellation	412.50 A	(Note 1)
- each DS-0 time slot activated.....	----	(Note 1)
- Low Bit Rate Voice each DS-0 time slot activated (Note 2).....	55.00 A	(Note 1)
- MTU Ports	55.00 A	(Notes 1&3)
- Enhanced Data Feature No. 1 (Note 4).....	412.50 A	(Note 1)
- Enhanced Data Feature No. 2 (Note 4).....	687.50 A	(Note 1)

- Notes: 1: Up to 5 activities per customer order at \$700.00, additional activities on the same order at \$100.00 each. Service charges apply but are not restricted to the installation of analogue and digital terminations (i.e., MTE, and Enhanced Service Extension Feature (ESEF)), changes in port configuration, changes to channel grouping and other changes as required, at the customer's premises or in the wire centre
2. Analogue Termination - 4 wire E & M Signalling or Digital Termination - High Speed Port monthly rate and service charge also apply to this service item, as appropriate. The service charge does not apply to LBRV if the LBRV is installed at the same time as the 4 wire E & M Signalling termination or the High Speed Port termination.
3. MDPL multi-point and multi-drop configurations are available using MTU's. An additional charge of one MTU port applies for each MTE and FME in the multi-point configuration to which a slave MTU is connected.
4. This feature is provided at the Company's and the respective Incumbent Carrier's discretion where suitable equipment is available.

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D. RATES (Continued)

1. Station Charges for each customer service location: (Continued)

(c) MTU Digital Terminations, each circuit:

	<u>Rate Per</u> <u>Month</u>	<u>Service</u> <u>Charge</u>
(i) Low Speed Port.....	\$ 44.00 A	(Notes 1&2)
(ii) Synchronous Port.....	44.00 A	(Notes 1&2)

(d) Reserved for future use.

2. Access, each customer location:

(a) Digital Network Access (at speeds of less than DS-1)

This provides for the digital facilities to connect a customer-located FME or MTU to a Basic or Enhanced Service Extension Feature as appropriate, located in the Company's (or Incumbent Carriers') rate centre. It is provided at rates and charges specified in Item 447 C.1.(a) and Item 446 D. (and the equivalent tariff items of other Incumbent Carriers).

(b) DS-1 Digital Network Access

DS-1 Digital Network Access is provided at rates and charges specified in Item 447 C.2. (and the equivalent tariff items of other Incumbent Carriers).

(c) DS-3 Digital Network Access

DS-3 Digital Network Access is provided at rates and charges specified in Item 447 C.3. (and the equivalent tariff items of other Incumbent Carriers).

(d) Access via other Company (or Incumbent Carrier) Services

The rates and charges for analogue local connections between a rate centre and a customer's premises is identified in the appropriate the Company (or Incumbent Carriers') Tariffs under local access to analogue inter-exchange channel.

- Notes: 1. Up to 5 activities per customer order at \$700.00, additional activities on the same order at \$100.00 each. Service charges apply but are not restricted to the installation of analogue and digital terminations (i.e., MTE, and Enhanced Service Extension Feature (ESEF), changes in port configuration, changes to channel grouping and other changes as required, at the customer's premises or in the wire centre.
2. A service charge does not apply when installed at the same time as the MTU.

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D. RATES (Continued)

3. Network Charges:

As noted in A. above, MDPL is a DS-0 based service. However, rates for larger quantities of inter-exchange channels (e.g., channels occupying DS-1 capacity) are available as detailed in TCI Tariff CRTC 21461, Item 503 (and the equivalent tariff items of other Incumbent Carriers).

(a) Intra-exchange

DS-0 and DS-1 channels between wire centres, or between a wire centre and a rate centre within an exchange are furnished at rates and charges as detailed in Item 447 C. (and the equivalent tariff items of other Incumbent Carriers). These channels are not eligible for the Customer Volume Pricing Plan.

(b) Inter-exchange (I)

DS-0 channels between wire centres in adjoining exchanges are furnished at rates and charges as detailed in the National Services Tariff CRTC 7400-E, Item 307.4(2). See Item 434 for clarification of "adjoining exchanges".

(c) Inter-exchange (II)

DS-0 channels between exchanges are furnished at rates and charges as detailed in TCI Tariff CRTC 21461, Item 503.3.2 (and the equivalent tariff items of other Incumbent Carriers).

4. Network Management and Control System (NMCS):

(a) Basic Network Management

Basic Network Management provides for control of the proprietary core network elements included under NMCS and includes the provision of network reports. The monthly rate includes the hardware and software components as well as the Basic Network Management application software provided on the customer's premises.

The controlling terminal may be located on the Company (or the Incumbent Carrier's) premises with Basic Network Management performed by the Company (or the Incumbent Carrier's) personnel for an additional management fee.

	<u>Rate Per</u> <u>Month</u>	<u>Service</u> <u>Charge</u>
(i) Initial Controller	\$ 2,475.00 A	\$ 5,000.00 (Note)
(ii) Additional Controller, each	1,925.00 A	1,250.00
(iii) Management Fee	1,512.50 A	---

Note: Initial system service charge includes training of up to 8 customer personnel at an Incumbent Carrier (including the Company) facility. Additional training is available from Bell, the Company, TCI and NewTel Communications Inc. at rates detailed in their respective Tariffs.

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D. RATES (Continued)

4. Network Management and Control System (NMCS): (Continued)

(b) Enhanced Network Management

Enhanced Network Management provides flexible end-to-end management of the proprietary network elements and network reporting. Enhanced Network Management features a graphical user interface architecture. All hardware and software components required to run the Enhanced Network Management application software on customer premises are customer provided.

The controlling terminal may be located on the Company (or the Incumbent Carrier's) premises with Enhanced Network Management performed by the Company (or the Incumbent Carrier's) personnel for an additional management fee.

	<u>Rate Per</u> <u>Month</u>	<u>Service</u> <u>Charge</u>
(i) First copy of the Enhanced Network Management application software.....	\$ 3,437.50 A	\$ 2,500.00
(ii) Additional copies of the Enhanced Network Management application software, each.....	3,025.00 A	2,500.00
(iii) Management Fee	1,512.50 A	----

(c) Network Control

(i) Network Control provides for channel switching at the central office:

a) Initial Rate Centre.....	2,365.00 A	750.00
b) Next 4 Rate Centres, each.....	825.00 A	----
c) Additional Rate Centre, each.....	346.50 A	----

(ii) Temporary Bandwidth, (minimum of 2 hours, each channel)

a) Temporary Bandwidth, which requires Network Control, provides additional channel capacity, to be used only for data transmission. It is provided between exchanges on a temporary basis, subject to availability, as follows:

<u>Distance Band (Miles)</u>	<u>Each 1/2 Hour</u>
1 - 25	\$ 20.00
26 - 50	25.00
51 - 100	30.00
101 - 200	45.00
201 - 500	50.00
501 - 1000	60.00
over 1000	65.00

b) Cancellation Charges

Temporary Bandwidth is booked in advance of the time required, and cancellations with less than five (5) working days notice are charged as follows:

<u>Notice</u>	<u>Charge</u>
(1) From 3 - 5 working days.....	\$ 50.00
(2) 1 or 2 working days.....	100.00 or 100% of time cancelled, (whichever is less).
(3) Cancellation on day of booking....	100% of time cancelled

See Page 41 for explanation of symbols.