
PRIVATE WIRE SERVICE
DIGITAL NETWORK SERVICES

Item
1113 MANAGED DIGITAL PRIVATE LINE - TRANSMISSION SERVICE (Managed Digital Private Line Service)

A. Description:

Managed Digital Private Line Service provides for the transmission of voice, data and image information over digital channels in multiples of 64 Kbps (DS-0) and DS-1 from one Exchange Area to a Customer's location in another Exchange Area by means of Interexchange Facilities.

B. Definitions:

For the purposes of this Tariff Item Managed Digital Private Line Service shall be comprised of the following elements:

1. "Access" provides for a channel to connect to Customer-premises located Managed Digital Private Line Service station equipment to the Customer's serving Central Office. Either the DS-1 or DS-0 access channel provided by Digital Network Access (Tariff Item 1111) connects a Customer-premises located Managed Digital Private Line Service Terminating Equipment (MTE) to the Customer's serving Central Office. The DNA access provided connects a Customer-premises located FME or MTU to the rate centre.

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PRIVATE WIRE SERVICE
DIGITAL NETWORK SERVICES

Item

1113 **MANAGED DIGITAL PRIVATE LINE - TRANSMISSION SERVICE (Managed Digital Private Line Service)**
(cont'd)

(C)**B. Definitions:** (cont'd)

2. "Cross-Section" refers to the DS-0 or DS-1 facilities furnished between Northwestel's Central Offices, between a Northwestel Central Office and a Central Office of another telephone company, or between a Northwestel Central Office and an International Border Crossing point.
3. "DS-0" is a single Channel provided between Rate Centres capable of digital transmission at a 64 Kbps rate.
4. "DS-1" refers to the Channel Facilities connecting Customer service points between the Customer's premises and the Central Office, or a channel provided between Rate Centres capable of digital line rate of 1.544 Mbps, capable of nominal 1.536 Mbps throughput.
5. "Feeder Multiplexing Equipment" (FME) is equipment located at the Customer's premises that processes line signals onto a Digital Network Access (Tariff Item 1111).
6. "Interexchange Network Service" provides digital transmission in increments of DS-0 or DS-1 Channels between two Rate Centres by means of Interexchange Facilities (Tariff Item 1112 C.3.).
7. "Network Connection" refers to the Central Office equipment required to interconnect Accesses or Service Extensions with Managed Digital Private Line Interexchange Facilities (Tariff Item 1112 C.1.).
8. "Local Channel" refers to the DS-0 or DS-1 facilities used to connect the serving Customer's central Office to the Managed Digital Private Line Rate Centre.
9. "Managed Digital Private Line Circuit Termination" refers to the equipment at the Customer's premises or Central Office used to connect each circuit.
10. "Managed Digital Private Line Terminating Equipment" (MTE) provides the customer with a multiplexor interface to the Digital Private Line DS-1 access at the individual circuit level together with the ability to process line signals onto the high speed (1.544 Mbps) access channels.
11. "Managed Digital Private Line Terminating Equipment Circuit Expansion Unit" provides equipment at the Customer's premises to expand beyond the initial 64 circuits.
12. "Managed Digital Private Line Terminating Unit" (MTU) is equipment located at the Customer's premises that processes line signals onto a Digital Network Access (Tariff Item 1111). It has a capacity of up to 64 kbps per channel with dual channel operations and up to 128 kbps with single channel operation.
13. "Service Extension" refers to the equipment in the Central Office, which permits the extension of Managed Digital Private Line Service to other Customer service locations within the Local Calling Area.

PRIVATE WIRE SERVICE
DIGITAL NETWORK SERVICES

Item 1113 **MANAGED DIGITAL PRIVATE LINE - TRANSMISSION SERVICE (Managed Digital Private Line Service)**
 (cont'd)

C. Rates

The customer shall pay the following Managed Digital Private Line rates and charges for each appropriate Managed Digital Private Line Service item required to establish a Customer's network.

1. Station Shares for each Customer service location:
 - a. Terminating Equipment:

Service Item	Monthly Rate	Service Charge
Managed Digital Private Line Terminating Equipment (MTE), each	\$900.00 (A)	\$1,300.00
MTE Expansion Unit (64 channels), each	\$320.00 (A)	\$300.00
Feeder Multiplexing Equipment (FME), each	\$450.00 (A)	\$650.00 (Note 1)
Managed Digital Private Line Terminating Unit (MTU), each	\$ 50.00 (A)	\$175.00 (Note 1)

Note 1: An Access Service charge as specified in Digital Network Access (Tariff Item 1111) shall apply whenever an FME is replaced by an MTU, or vice versa, due to the required reconfiguration of the Digital Network Access (Tariff Item 1111).

PRIVATE WIRE SERVICE
DIGITAL NETWORK SERVICES

Item**1113 MANAGED DIGITAL PRIVATE LINE - TRANSMISSION SERVICE (Managed Digital Private Line Service)**
(cont'd)**C. Rates**

1. Station Shares for each Customer service location (cont'd)

b. FME/MTE/Circuit Terminations

Service Item	Monthly Rate	Service Charge
Analogue Termination, each circuit, each end	--	Note 1
- 4 wire E&M Signalling	\$50.00 (A)	Note 1
- Low Bit Rate Voice (LBRV 8/16 Kbps includes voice circuit conditioning)	\$50.00 (A) (Note 4)	--
Digital Termination, each circuit, each end	--	Note 1
- Low Speed Port (RS-232)	\$50.00 (A)	Note 1
- Synchronous Port (RS-422 & V.35)	\$50.00 (A)	Note 1
- Dataphone Digital Service (DDS) compatible Port (RS-232, RS-422, V.35 & OCU)	\$50.00 (A)	--
- High Speed Port (DS-1) Compression Module	\$375.00 (A)	--
- Echo Cancellation, each high speed port	\$375.00 (A)	Note 1
- Each DS-0 time slot activated	--	Notes 1 & 4
- Low Bit Rate Voice (LBRV 8/16 Kbps) – digital each DS-0 time slot activated	\$50.00 (A) (Note 4)	Notes 1 & 3
- MTU Ports	\$50.00 (A)	Note 1
- Enhanced Data Feature No. 1 (Note 5)	\$375.00 (A)	Note 1
- Enhanced Data Feature No. 2 (Note 5)	\$625.00 (A)	--

c. MTU Terminations – each circuit

Service Item	Monthly Rate	Service Charge
RS-232, RS-422, V.35, each	\$40.00 (A)	Notes 1, 2 & 3

For explanation of symbols see Page 1

Issued: 06 September 2001

Effective: 17 October 2001

Approved in Telecom Order CRTC 2001-771, 15 October 2001

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**PRIVATE WIRE SERVICE
DIGITAL NETWORK SERVICES**

Item 1113 **MANAGED DIGITAL PRIVATE LINE - TRANSMISSION SERVICE (Managed Digital Private Line Service)**
(cont'd)

C. Rates

1. Station Shares for each Customer service location (cont'd)

c. MTU Terminations – each circuit (cont'd)

Note 1: The Customer shall pay a service charge per service order of \$700.00 for each of the first five (5) circuits installed at each Customer service location. A service charge of \$100.00 applies for each additional circuit installed. Service charges apply for the installation of analogue and digital termination (i.e. MTE, and Enhanced Service Extension Feature (ESEF) - Dedicated, Tariff Item), Shared Service Extension Terminations (ESEF) (Tariff Item), changes in port configuration, changes to channel grouping and other changes as required, at the Customer's premises or in the Central Offices.

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Note 2: A service charge does not apply when installed at the same time as the MTU.

Note 3: Managed Digital Private Line 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.

Note 4: 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.

Note 5: This feature shall be provided at Northwestel's discretion subject to the availability of suitable equipment.

d. Data Connecting Cables, Customer premise only

Service Item (Note 1)	Service Charge
V35 MTE to DTE	\$110.00
449 MTE to DTE	\$35.00

Note 1: Provides for a standard length data connecting cable of 3 meters or 10 feet. Other lengths are furnished at charges established by Northwestel.

e. Standby Power Supply

Service Item	Monthly Charge	Service Charge
Standby Power	\$165.00	--

For explanation of symbols see Page 1

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PRIVATE WIRE SERVICE
DIGITAL NETWORK SERVICES

Item

1113 MANAGED DIGITAL PRIVATE LINE - TRANSMISSION SERVICE (Managed Digital Private Line Service)
(cont'd)

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C. Rates (cont'd)

2. Access and Local Link monthly rates and charges apply as contained in Tariff Item 1111 of the Digital Network Access section of this tariff.
3. Interexchange Link charges apply at each Rate Centre as contained in Tariff Item 1112 C.1.
4. Interexchange DS-0 Channel Charges apply as per Tariff Item 1112 C.3.a.
5. Interexchange DS-1 Channel Charges apply as per Tariff Item 1112 C.3.b.

D. Conditions

1. Provision of service is subject to the ability of Northwestel and the customer to satisfy existing transmission standards. The Service will be provisioned within its operating limitations and equipment capabilities.
2. Service shall be provided within and between Central Offices subject to the availability of suitable facilities.
3. Northwestel shall determine the Central Offices from where service shall be provided.
4. The Customer shall pay the appropriate Interexchange Link Charges per channel, pursuant to Tariff Item 1112 for all channels in service.
5. Multi-point and multi-drop Managed Digital Private Line Service configurations are available using Managed Digital Private Line Terminating Units.
6. Portions of Managed Digital Private Line Service are offered on a one to five year minimum contract period basis under the terms set out in the Digital Private Line Solutions contract that specifies the termination charges.
7. When it is necessary to install special equipment or to incur an unusual expense to establish Managed Digital Private Line Service, the Customer shall pay an additional charge based on the equipment installed or the unusual expense incurred.
8. Managed Digital Private Line Service may be connected (by way of Managed Digital Private Line Terminating Equipment) to either Customer or Northwestel provided terminal equipment located beyond the Managed Digital Private Line Terminating Equipment at the Customer's premises.
9. The Customer is solely responsible for the installation, operation and maintenance of Customer provided terminal equipment.
10. Service Extension to the Customer's premises within the serviced Exchange, or interconnection to other services, may be provided via the Rate Centre served by Managed Digital Private Line Service. Service will be provided at the rates, charges and conditions of service as specified in this Tariff Item 1113 C.2.

(M) Transferred to Page 194

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PRIVATE WIRE SERVICE
DIGITAL NETWORK SERVICES

Item
1113 **MANAGED DIGITAL PRIVATE LINE - TRANSMISSION SERVICE (Managed Digital Private Line Service) (cont'd)**

D. Conditions (cont'd)

11. Dedicated MTE may only be located at the Customer's premises or at Northwestel's Central Office.
12. Customer terminal equipment attached to Northwestel's network must be in accordance with Northwestel's Connection of Customer-Provided Equipment tariff CRTC 3001, Items 1301, 1302 and 1303. (C)
13. Managed Digital Private Line Service may be connected at the Customer's premises to other Northwestel services, for use in conjunction with Digital Private Line Service Extensions Features, (Tariff Item 1115) subject to the rates, charges and condition of service as specified in this Tariff.
14. Channel Facilities shall be required to accommodate such overheads as signalling and/or supervision over the Managed Digital Private Line Service.
15. For Interexchange Channel Facilities between a service point Northwestel's territory and the United States, the distance charge is based on the measurement between Rate Centres and the applicable International Border Crossing which results in the lowest combined monthly charge.
16. The FME and MTU may also be connected to Managed Digital Private Line Service station equipment located at the Customer's premises.
17. 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.