

ITEM
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Digital Network Access

ITEM
500.1

Service Description

Digital Network Access (DNA) provides network access facilities for the digital transmission of information:

- a. From a Customer's premises to another premises within the Serving Central Office area (requires one Access per customer premises) at the following speeds:
 - 1.544 Mbps for DS-1
 - 44.736 Mbps for DS-3
 - 155 Mbps for OC-3 SONET
 - 622.08 Mbps for OC-12 SONET
 - 2,488.32 Mbps for OC-48 SONET
 - unframed 2.5 Gbps wavelength
- b. From a Customer's premises to the Wire Centre/Rate Centre to connect with other network services at the following speeds:
 - less than 1.544 Mbps
 - 1.544 Mbps for DS-1
 - 44.736 Mbps for DS-3
 - 155 Mbps for OC-3 SONET
 - 622.08 Mbps for OC-12 SONET
 - 2,488.32 Mbps for OC-48 SONET
 - unframed 2.5 Gbps wavelength

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Definitions

For the purposes of this Tariff Item:

"Access" provides the Customer with a Digital Network Access from the Service Demarcation Point at the Customer's premises to the Company's Serving Central Office. The Customer's premises must be located within the Serving Central Office area.

"Access Rate Band" – subject to availability of suitable Company equipment and facilities, the Central Offices associated with each Access Rate Band are identified in General Tariff CRTC 18001 Item 500.4.6 for Alberta, and General Tariff CRTC 1005 Item 447.C.8 for British Columbia.

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500.2 **Definitions - Continued**

“Access Special Routing” – see General Tariff CRTC 18001 Item 712 for Alberta, and General Tariff CRTC 1005 Item 448 for British Columbia.

“Central Office” refers to a physical building used to house TELUS inside plant equipment.

“Channelization” refers to subdividing a channel into smaller channels of equal size (i.e., timeslots) so it may carry different streams of information. OC-N Channelization must be ordered in Non-Concatenated Mode

“Concatenated Mode” means the mode in which the bandwidth of the optical carrier (i.e., an individual OC-N) is in a single physical channel. The customer must specify the mode at the time of initial service request. Concatenation removes some of the SONET overhead on an OC-N circuit to increase the overall bandwidth of the circuit and provides no sub-division of channels into STS.

“DS-0” is a channel capable of digital transmission at a 56 Kbps rate.

“DS-1” is a channel capable of digital transmission at a 1.544 Mbps rate.

“DS-3” is a channel capable of digital transmission at a 44.736 Mbps rate.

“Intra-exchange Channel” is a digital channel facility between:

1. Two Wire Centres in the same Rate Centre.
2. A Wire Centre and a Rate Centre in the same Rate Centre

Rates apply only once per Intra-exchange Channel within the same Rate Centre.

“Linear Protected” provides an Access over four (4) fibres which travel in the same conduit along the same path and terminate at the Service Demarcation Point.

“Linear Unprotected” provides an Access over two (2) fibres which travel in the same conduit along the same path and terminate at the Service Demarcation Point. Unless otherwise specified, OC-3, OC-12 and OC-48 are provided as Linear Unprotected.

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Definitions - Continued

“*Link*” refers to the Central Office equipment that connects:

1. an Access to an Access;
2. an Access to an Intra-exchange Channel;
3. an Access to an Inter-exchange Channel;
4. an Access to a timeslot on a Channelization Feature;
5. an Access to a Switched Network Service at the Wire Center or Rate Center where the access component is not otherwise provided by the Switched Network Service;
6. an Intra-exchange Channel or Inter-exchange Channel to a Digital Network Service or a Switched Network Service at a Wire Centre or Rate Centre; or
7. a Channelizing Feature to a Digital Network Service or a Switched Network Service at a Wire Centre or Rate Centre.

Note: There is no charge for links provided at speeds of DS-3 and higher.

For the purpose of the Link as defined herein:

“*Digital Network Service*” means a service as identified in General Tariff CRTC 18001 Item 705.1, General Tariff CRTC 1005 Item 434.A.1, as well as DNA Channelization Features and Inter-Office Digital Channels.

“*Switched Network Service*” means ISDN-PRI, Digital Exchange Access (DEA), Inbound Data Access (IDA) and all Competitor Category 1 switched services that are not eligible for the CDN Other CO Connecting Link (copper-based) provided for under the CDN Services offering (Carrier Access Tariff CRTC 21462 Item 224).

“*Non-Concatenated Mode*” subdivides an OC-N circuit into an equivalent number of channels as denoted by the “-N”, e.g., for OC-3, 3 STS channels are provisioned. It does not provide timeslots, nor is it synonymous with channelization.

“*OC-N*” includes the following optical speeds:

- a. “OC-3” is a channel capable of digital transmission at a 155 Mbps rate.
- b. “OC-12” is a channel capable of digital transmission at 622.08 Mbps rate.
- c. “OC-48” is a channel capable of digital transmission at 2,488.32 Mbps rate.
- d. Unframed 2.5 Gbps wavelength is a channel capable of digital transmission at 2.5 Gbps wavelength.

“*Rate Centre*” is a Central Office from which distances are measured for determining charges for Inter-exchange Channels..

“*Serving Central Office*” is the first Central Office that a Customer premises is connected to by way of a Digital Network Access.

“*Wire Centre*” is a Central Office used for the provision of access services. Multiple Wire Centres may be served by a single Rate Centre.

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Conditions of Service

1. Effective 2005 02 03, Canadian Carriers and registered Resellers see also Competitor Digital Network (CDN) Services in Carrier Access Tariff CRTC 21462 Items 224 and 225, if applicable.
2. Forborne Wire Centres are listed in General Tariff CRTC 21461 Item 514.
3. Digital Network Access shall be provided subject to the availability of suitable equipment and facilities. If all or any portion of the Access facility does not exist between a Serving Central Office and the Customer's premises, the Customer shall pay an additional charge based on the full cost of building the facility. For Customer premises located in non-serving areas, Special Facilities Tariff charges may be applicable in order to provide the service.
4. The Company shall determine the Serving Central Office from which it will provide service. Not all TELUS Central Offices are capable of provisioning all speeds of Digital Network Access.
5. The provision of the service is subject to the ability of the Company and the Customer to satisfy existing transmission standards. The service will be provisioned within its operating limitations and equipment capabilities.
6. When it is necessary for the Company to install special equipment or to incur an unusual expense to establish service, the customer shall pay an additional charge based on the equipment installed and the unusual expense incurred.
7. The Access component of Digital Network Services is provisioned from a Central Office and terminates at a point (the "Service Demarcation") either at a single location at the Service Address or, if the Customer site is a multi-level building, at a single location where the Service Components enter the building i.e., main telephone room. The Customer is responsible for all equipment, including construction, conditioning, riser installation, and connectivity required on the Customer's side of the Service Demarcation Point.
8. Digital Network Access may be connected to customer equipment located at the Customer's premises. The equipment may be provided by either the Customer or the Company.
9. The Customer is solely responsible for the installation, operation and maintenance of Customer premises equipment provided by the Customer.

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Digital Network Access - Continued

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Conditions of Service - Continued

10. The Customer premises equipment attached to the Company's network must be compatible with TELUS equipment, including, but not limited to the Company's optical equipment, and certified or connected through a certified network protection device in accordance with General Tariff CRTC 18001 Item 110 (Attachments) in Alberta, or General Tariff CRTC 1005 Item 170 (Interconnection Services – General) and Item 200 (Terminal Attachment Program) in British Columbia, as applicable.
11. Conditions of Service stated in Digital Private Line Service Extension Access Service (General Tariff CRTC 18001 Item 709 and General Tariff CRTC 1005 Item 446), and Digital Private Line Service Extension Features (General Tariff CRTC 21461 Item 506), shall apply in addition to the Digital Network Access Tariff, where applicable.
12. This Tariff Item is not eligible for discounts under the Customer Volume Pricing Plan (General Tariff CRTC 21461 Item 504).
13. Digital Network Access is provided under the terms and conditions in this Tariff Item and the Digital Network Services Agreement.
14. Upon the expiration of a Digital Network Services Agreement, Digital Network Access shall continue to be provided, at the same rate and term as the original contract rates unless re-negotiated by either TELUS or the Customer.

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Conditions of Service - Continued

15. If the Customer terminates an agreement or a portion of an agreement for Digital Network Access prior to the expiry date of the agreement Term, the following applies:
 - a) Early termination charges equal to one half of the charges for the terminated Digital Network Access for the unexpired portion of the agreement Term will be payable in a single payment upon the effective date of the termination of the agreement or portion thereof, as the case may be; or
 - b) Early termination charges will be waived if the Customer enters into a new agreement(s) for Digital Network Access or other dedicated access service(s), and the committed revenues under the new agreement(s) are equal to or greater than those remaining under the original agreement; or
 - c) Early termination charges will be reduced if the Customer enters into a new agreement(s) for Digital Network Access or other dedicated access service(s) and the committed revenues under the new agreement(s) are less than those remaining under the original agreement, such that the early termination charges for the original agreement will equal one half of the charges for the terminated Digital Network Access for the unexpired portion of the agreement Term, less one half of the committed revenues under the new agreement(s), payable in a single payment upon the effective date of the termination of the agreement or portion thereof, as the case may be.
16. The reduction or waiver of early termination charges as specified above, Condition 15, will apply if the contracted Digital Network Access is moved to another Customer premises location.
17. A Customer may migrate contracted DS-1 Access from Managed Digital Private Line Service to another Company-provided service, in which case termination charges will not apply.

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Rates

The Customer shall pay to the Company the following rates and charges for Digital Network Access. Such rates and charges are in addition to any other rates and charges that may be applicable. Requests for installation, other than regular working hours, are charged at rates specified in General Tariff CRTC 1005 Item 111 and Competitive Network Services Tariff CRTC 18002 Item 1820.

ITEM
500.4.1

DS-0 DNA

Effective February 10, 2023, DS-0 DNA is no longer available for new installations, moves, additions or changes, except when used for interconnection pursuant to a Master Agreement for Local Interconnection between the Customer and the Company, or for connection between the Customer's point of presence and the Company's network for the purposes of obtaining any of the Company's interconnection services (toll, local, wireless and transiting services) set out in Telecom Decision CRTC 2008-17, Appendix, Category (e); or for the purposes of connecting to a Central Office co-location space established pursuant to the Company's tariffs.

The following Access, Link and Intra-exchange Channel rates and charges apply when used with the following services:

- Digital Private Line Service Extension Access Service (General Tariff CRTC 18001 Item 709 and General Tariff CRTC 1005 Item 446) for speeds up to 64 Kbps.
- Digital Private Line Service Extension Features (General Tariff CRTC 21461 Item 506) for speeds up to 64 Kbps.
- Feeder Multiplexing Equipment (FME) Access for speeds up to 64 Kbps and Managed Digital Private Line Terminating Unit (MTU) Access for 2 times 64 Kbps or 1 times 128 Kbps as specified in General Tariff CRTC 18001 Item 707 and General Tariff CRTC 1005 Item 437.
- Inter-Exchange (IX) Digital Channels (General Tariff CRTC 21461 Item 503).
- TELUS Frame Relay Service (forborne) up to 56 Kbps.
- International Private Line (forborne) for speeds up to 56 Kbps.
- Other services as identified in the Company's Tariffs for speeds up to 56 Kbps.

Service Item	Monthly Rate	Service Charge (Note 1)
a. Access, per circuit, per Customer location, all Access Rate Bands	\$ 90.00	\$ 300.00 (Note 2)
b. Link, per Serving Central Office and/or Rate Centre, each	66.00	--
c. Intra-exchange Channel, each	20.75	--
d. Change of Operating Speed, per Access, per Customer location	--	150.00 (Note 2)

Note 1: Service Charges do not apply when a customer migrates from Managed Digital Private Line Service (General Tariff CRTC 1005 Item 437 and General Tariff CRTC 18001 Item 707) to this Tariff.

Note 2: This Service Charge applies in addition to the service charges specified in General Tariff CRTC 1005 Item 437 D.1.(b), Note 1; CRTC 18001 Item 707.4.(a).2, Note 2 associated with changes to the Service Extension Feature General Tariff CRTC 21461 Item 506.

Dedicated Network Services

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500 **Digital Network Access - Continued**

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500.4 **Rates - Continued**

ITEM

500.4.1 **DS-0 DNA - Continued**

ITEM

500.4.1.1 **Fractional DS-1 – Alberta Only**

Fractional DS-1 is no longer available for new installations, moves, additions or changes effective March 14, 2011.

For Alberta only, a Fractionalization Feature provides Customers with multiples of DS-0 Access, ranging from 128 Kbps to 512 Kbps, from the Customer's Connection Point to the Serving Central Office.

In addition to the above DS-0 rates (charged per each DS-0 in Item 500.4.1), the following Fractionalization Feature Charges apply for each Access ranging from 128 Kbps to 512 Kbps:

Service Item – Alberta only	Monthly Rate
a. 128 Kbps Fractionalization Feature Charge, per Access	\$ 76.00
b. 256 Kbps to 512 Kbps Fractionalization Feature Charge, per Access	198.00

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Dedicated Network Services

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500 **Digital Network Access - Continued**

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500.4 **Rates - Continued**

ITEM
500.4.1 **DS-0 DNA - Continued**

ITEM
500.4.1.2 **Fractional DS-1 – B.C. Only**

Fractional DS-1 is no longer available for new installations, moves, additions or changes effective March 14, 2011.

The following Access, Link and Intra-exchange Channel rates and charges apply when used with the following service.

- TELUS Frame Relay Service access (unregulated services) for speeds from 112 kbps up to and including 256 kbps.

Fractional DS-1 Access, each customer, each B.C. location:	Monthly Rate			
	Non-contracted	Minimum Contract Period		
		1 Year	3 Years	5 Years
Access, 112/128 Kbps	\$ 276.50	\$ 207.50	\$ 180.00	\$ 152.25
Access, 224/256 Kbps	345.50	276.50	248.75	221.00

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Service Item – B.C. only	Monthly Rate
Link, per Serving Central Office and/or Rate Centre, each	\$ 66.00
Intra-exchange Channel 112/128 Kbps Channel, each	55.50
Intra-exchange Channel 224/256 Kbps channel, each	111.25

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Dedicated Network Services

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500 **Digital Network Access - Continued**

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500.4 **Rates - Continued**

ITEM

500.4.2 **DS-1 DNA**

Effective February 10, 2023, DS-1 DNA is no longer available for new customers, except when used for interconnection pursuant to a Master Agreement for Local Interconnection between the Customer and the Company, or for connection between the Customer's point of presence and the Company's network for the purposes of obtaining any of the Company's interconnection services (toll, local, wireless and transiting services) set out in Telecom Decision CRTC 2008-17, Appendix, Category (e); or for the purposes of connecting to a Central Office co-location space established pursuant to the Company's tariffs.

The following rates and charges apply for DS-1 DNA when used with the following services:

- Digital Private Line Service Extension Features - General Tariff CRTC 21461 Item 506) for available speeds of up to 1.544 Mbps.
- TELUS Frame Relay Service (forborne) Access for available speeds from 128 Kbps up to and including 1.544 Mbps.
- Inter-Exchange (IX) Digital Channels (General Tariff CRTC 21461 Item 503).
- International Private Line (forborne).
- Digital Exchange Access (General Tariff CRTC 1005 Item 495 and General Tariff CRTC 18001 Item 165).
- Messaging Services – Network Access (General Tariff CRTC 18001 Item 330 and Radio Paging System Access Tariff CRTC 25721 Item 2220) and Terminal Network Access for Local Service (General Tariff CRTC 1005 Item 196).
- WSP Network Access Service (Carrier Access Tariff 21462 Item 231).
- Interconnecting Circuits with Trunk-side Access (Carrier Access Tariff CRTC 18008 Item 270 and Carrier Access Tariff CRTC 1017 Item 70).
- Local Network Interconnection and Component Unbundling (Carrier Access Tariff CRTC 18008 Item 215 and Carrier Access Tariff CRTC 1017 Item 105).
- Other services as identified in the Company's Tariffs for speeds up to DS-1.

ITEM

500.4.2.1 **DS-1 Access**

Access Rate Band	Quantity of DS-1's	Monthly Rate, per Access, per location						Service Charges each DS-1 (Note 1)	
		Non-contracted	1 Year	2 Years	3 Years	4 Years	5 Years	Non-contracted	Contracted
1 (Note 2)	Each access	\$ 239.58	\$ 163.20	\$ 156.30	\$ 134.45	\$ 134.45	\$ 123.10	\$ 1,694.00	\$ 847.00
2	Each access	464.64	279.51	268.62	226.51	226.51	189.45	1,694.00	847.00
3	Each access	686.07	532.40	520.30	508.20	508.20	471.90	1,694.00	847.00

Note 1: Service Charges do not apply when a Customer migrates from Managed Digital Private Line Service to Digital Network Access.

Note 2: In some British Columbia Tariffs, Band 0 may still be used, and is identical to Band 1.

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500 **Digital Network Access - Continued**

ITEM
500.4 **Rates - Continued**

ITEM
500.4.2 **DS-1 DNA – Continued**

Effective February 10, 2023, DS-1 DNA is no longer available for new customers, except when used for interconnection pursuant to a Master Agreement for Local Interconnection between the Customer and the Company, or for connection between the Customer's point of presence and the Company's network for the purposes of obtaining any of the Company's interconnection services (toll, local, wireless and transiting services) set out in Telecom Decision CRTC 2008-17, Appendix, Category (e); or for the purposes of connecting to a Central Office co-location space established pursuant to the Company's tariffs.

ITEM
500.4.2.2 **DS-1 Link, Intra-exchange Channel and Channelization Feature**

Service Item	Monthly Rate	Service Charge (Note 1)
a. DS-1 Link, each Serving Central Office or Rate Centre, as appropriate	\$ 85.25	--
b. DS-1 Intra-exchange Channel	111.90	--
c. DS-1 to DS-0 Channelization Feature: (Note 2)	102.85	\$ 151.25 (Note 3)
d. B8ZS or AMI Code Signal Option		
▪ Add or change to existing DS-1 or DS-0 Access	--	726.00 (Note 4)

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Note1: Service Charges do not apply when a Customer migrates from Managed Digital Private Line Service to Digital Network Access.

Note 2: The Company shall determine from which Serving Central Office DS-1 Channelization Feature is available. The Channelization Feature enables a DS-1 Access or channel to be connected to DS-0 channels.

Note 3: To activate and interconnect unused DS-0 capacity in a DS-1 Access (timeslots), a service charge of \$169.40 for each activity applies per initial 5 activities per each customer order, and additional activities on the same order at \$42.35 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 in trunkside terminations, changes to channel grouping and other changes as required at the Customer's premises, in the Serving Central Office or the Rate Centre.

Note 4: B8ZS is the default line coding for DS-1. Service charge applies when a customer requests to change the line coding between B8ZS and AMI.

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500 **Digital Network Access - Continued**

ITEM
500.4 **Rates - Continued**

ITEM
500.4.3 **DS-3 DNA**

The following rates and charges apply for DS-3 DNA.

ITEM
500.4.3.1 **DS-3 Access**

Access Rate Band	Monthly Rate, per Access, per location						Service Charge per DS-3	
	Non- Contracted	Minimum Contract Period					Non- Contracted	Contracted
		1 Year	2 Years	3 Years	4 Years	5 Years		
1 (Note 1)	\$ 1,944.47	\$ 1,207.65	\$ 1,131.10	\$ 1,046.00	\$ 1,046.00	\$ 1,046.00	\$ 4,840.00	\$ 2,420.00
2	2,196.15	2,009.81	1,754.50	1,694.00	1,633.50	1,542.75	4,840.00	2,420.00
3	4,053.50	3,726.80	3,267.00	3,146.00	3,025.00	2,855.60	4,840.00	2,420.00

Note 1: In some British Columbia Tariffs, Band 0 may still be used, and is identical to Band 1.

ITEM
500.4.3.2 **DS-3 Intra-exchange Channel**

Service Item	Monthly Rate	Service Charge
DS-3 Intra-exchange Channel	\$ 837.90	--

ITEM
500.4.3.3 **DS-3 Channelization Feature**

A DS-3 Channelization Feature enables a DS-3 access or channel to be connected to DS-1 channels.

DS-3 to DS-1 Channelization Feature, each	Monthly Rates						Service Charge
	Non- contracted	Minimum Contract Period					
		1 Year	2 Years	3 Years	4 Years	5 Years	
Customer premises	\$ 1,510.65	\$ 1,264.45	\$ 1,224.50	\$ 1,177.90	\$ 1,028.50	\$ 968.00	\$ 605.00
Central Office (Note 1, 3)	757.78	-	-	-	-	-	605.00 (Note 2)

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Note 1: The Company shall determine which Serving Central Office a DS-3 Channelization Feature is available from. Not all TELUS Central Offices are capable of provisioning DS-3 Channelization.

ITEM

500 **Digital Network Access - Continued**

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500.4 **Rates - Continued**

ITEM

500.4.3.3 **DS-3 Channelization Feature - Continued**

Note 2: This Service Charge is for the initial application of the DS-3 Channelization Feature. To activate DS-1 Channels (time slots) for subsequent orders on the same DS-3, the Service Charge is \$121 per DS-1, up to a maximum of \$605 per order.

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Note 3: Central Office Channelization Feature is only available on a non-contracted monthly basis.

ITEM

500.4.4 **Optical Network Non-standard Service Charges**

ITEM

500.4.4.1 **Service Charges: Initial installation on OC-N**

Service Charges include standard installation (charges including, but not necessarily limited to, cards and labour). Service Charges specified are waived for 3-year to 5-year contracts.

ITEM

500.4.4.2 **Concatenation Mode Re-design Requests**

In the event a Customer requests the change of a existing circuit from Concatenated Mode to non-Concatenated Mode, or vice versa, the Customer (including those with a 3-year or 5-year contract) shall pay a Service Charge. Concatenated Mode Re-design requests and the associated Service Charge are not applicable to Intra-exchange Channel, or Channelization components; or 2.5 Gbps Wavelength Accesses. This service charge is not subject to the waiver described in Item 500.4.4.1.

Service Item, per Access per Customer location	Service Charge
Concatenation Mode Re-design Request	\$ 1,815.00

ITEM

500.4.4.3 **Channelization Re-design Request**

In the event a Customer requests the change of a existing circuit from channelized to unchannelized, or vice versa, the Customer shall pay a Channelization Service Charge. This service charge is not subject to the waiver described in Item 500.4.4.1.

ITEM

500 Digital Network Access - Continued

ITEM

500.4 Rates - Continued

ITEM

500.4.5 OC-3 DNA

ITEM

500.4.5.1 OC-3 DNA Access – Linear Unprotected 2 Fibre

Access Rate Band	Monthly Rate, per Access, per location					Service Charge (Note 1)
	Minimum Contract Period					
	1 Year	2 Year	3 Year	4 Year	5 Year	
A	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
B	\$ 2,882 A	\$ 2,500	\$ 2,385	\$ 2,385	\$ 2,145	\$ 2,750
C	3,535	3,375	3,210	3,210	2,890	2,750
D	3,330	3,175	3,025	3,025	2,725	2,750
E	3,806	3,305	3,145	3,145	2,830	2,750
F	4,115	3,925	3,740	3,740	3,365	2,750
G	5,130	4,900	4,580	4,580	4,255	2,750

ITEM

500.4.5.2 OC-3 DNA Access – Linear Protected 4 Fibre

Access Rate Band	Monthly Rate, per Access, per location					Service Charge (Note 1)
	Minimum Contract Period					
	1 Year	2 Year	3 Year	4 Year	5 Year	
A	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
B	\$ 6,628.38	\$ 6,328.90	\$ 6,029.43	\$ 5,396.60	\$ 4,930.75	\$ 3,025
C	8,784.60	8,391.95	7,846.20	7,846.20	7,293.88	3,025
D	8,418.55	8,039.24	7,653.25	6,957.50	6,887.90	3,025
E	8,324.80	7,949.70	7,429.40	7,429.40	6,903.05	3,025
F	9,982.50	8,977.55	7,707.70	7,007.00	6,600.00	3,025
G	9,075.00	8,161.45	7,707.70	7,435.45	7,260.00	3,025

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Note 1: See Item 500.4.4.1 for potential service charge waivers.

Note 2: Band A exchanges were forborne in Telecom Decision CRTC 2007-108.

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ITEM
500.4 **Rates - Continued**

ITEM
500.4.5 **OC-3 DNA - Continued**

ITEM
500.4.5.3 **OC-3 DNA Intra-exchange Channel**

Service Item	Monthly Rate (per Channel) - Minimum Contract Period					Service Charge
	1 Year	2 Year	3 Year	4 Year	5 Year	
OC-3 Intra-exchange Channel	\$ 2,335.30	\$ 2,238.50	\$ 1,948.10	\$ 1,859.55	\$ 1,815.00	---

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ITEM
500.4.5.3 **OC-3 DNA Channelization**

The OC-3 Channelization Feature enables an OC-3 access or channel to be connected to DS-3 channels.

Service Item: OC-3 Channelization to DS-3, each	Monthly Rate - Minimum Contract Period					Service Charge (Notes 1,2)
	1 Year	2 Year	3 Year	4 Year	5 Year	
Customer premises (Note 3)	\$ 952.85	\$ 952.85	\$ 952.85	\$ 952.85	\$ 952.85	\$ 605.00
Central Office	1,179.75	1,131.35	1,035.45	1,015.70	959.22	605.00

Note 1: See Item 500.4.4.1 for potential service charge waivers.

Note 2: A \$302.50 service charge will apply for subsequent activation of DS-3 timeslots on a channelized circuit to a maximum of \$605.00 on a single order at the same time.

Note 3: Channelization at Customer premises is available only with Linear Protected Accesses.

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500 Digital Network Access - Continued

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500.4 Rates - Continued

ITEM

500.4.6 OC-12 DNA

ITEM

500.4.6.1 OC-12 DNA Access - Linear Unprotected 2 Fibre

Access Rate Band	Monthly Rate, per Access, per location					Service Charge (Note 1)
	Minimum Contract Period					
	1 Year	2 Year	3 Year	4 Year	5 Year	
A	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
B	\$ 5,769.50 A	\$ 5,005	\$ 4,770	\$ 4,770	\$ 4,290	\$ 4,400
C	6,930	6,620	6,185	6,185	5,750	4,400
D	6,660	6,355	6,055	6,055	5,450	4,400
E	6,960	6,665	6,235	6,235	5,795	4,400
F	7,460	7,125	6,665	6,665	6,190	4,400
G	8,555	8,170	7,645	7,645	7,105	4,400

ITEM

500.4.6.2 OC-12 DNA Access - Linear Protected 4 Fibre

Access Rate Band	Monthly Rate, per Access, per location (Note 1)					Service Charge (Note 1)
	Minimum Contract Period					
	1 Year	2 Year	3 Year	4 Year	5 Year	
A	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
B	\$ 9,377.50	\$ 8,437.00	\$ 7,969.50	\$ 7,607.25	\$ 7,502.00	\$ 4,400
C	15,088.70	14,374.80	13,473.35	12,248.50	11,390.50	4,400
D	13,629.00	13,018.50	12,166.00	11,613.00	11,319.00	4,400
E	13,816.00	13,189.00	12,342.00	12,342.00	11,495.00	4,400
F	14,762.00	14,118.50	13,189.00	12,589.50	12,265.00	4,400
G	15,972.00	14,371.50	13,574.00	12,957.00	12,776.50	4,400

Note 1: See Item 500.4.4.1 for potential service charge waivers.

Note 2: Band A exchanges were forborne in Telecom Decision CRTC 2007-108.

ITEM
500 **Digital Network Access - Continued**

ITEM
500.4 **Rates - Continued**

ITEM
500.4.6 **OC-12 DNA - Continued**

ITEM
500.4.6.3 **OC-12 DNA Intra-exchange Channel**

Service Item	Monthly Rate (per Channel) - Minimum Contract Period					Service Charge
	1 Year	2 Year	3 Year	4 Year	5 Year	
OC-12 DNA Intra-exchange Channel	\$ 4,251.50	\$ 4,070	\$ 3,542	\$ 3,542	\$ 3,300	---

ITEM
500.4.6.4 **OC-12 DNA Channelization**

The OC-12 Channelization Feature enables an OC-12 access or channel to be connected to OC-3 and/or DS-3 channels.

Service Item	Monthly Rate - Minimum Contract Period					Service Charge (Notes 1,2)
	1 Year	2 Year	3 Year	4 Year	5 Year	
OC-12 Channelization to OC-3 and/or DS-3, each						
Customer premises (Note 3)	\$ 2,750	\$ 2,475	\$ 2,337.50	\$ 2,255	\$ 2,200	\$ 550
Central Office	3,000 A	2,879 A	2,292.86	2,277	2,117.50	550

Note 1: See Item 500.4.4.1 for potential service charge waivers.

Note 2: A \$275.00 service charge will apply for subsequent activation of timeslots on a channelized circuit to a maximum of \$550.00 on a single order at the same time.

Note 3; Customer premises Channelization is available only with Linear Protected Accesses.

ITEM

500 **Digital Network Access - Continued**

ITEM

500.4 **Rates - Continued**

ITEM

500.4.7 **OC-48 DNA**

ITEM

500.4.7.1 **OC-48 DNA Access Linear Protected 4 Fibre**

Access Rate Band	Monthly Rate, per Access, per location					Service Charge (Note 1)
	Minimum Contract Period					
	1 Year	2 Year	3 Year	4 Year	5 Year	
A	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
B	\$ 10,490	\$ 10,015	\$ 9,540	\$ 9,540	\$ 8,585	\$ 5,000
C	14,140	13,500	12,855	12,855	11,570	5,000
D	13,320	12,715	12,110	12,110	10,900	5,000
E	17,305	16,520	15,730	15,730	14,160	5,000
F	16,465	15,715	14,965	14,965	13,470	5,000
G	29,040	26,135	24,680	24,680	23,230	5,000

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Note 1: See Item 500.4.4.1 for potential service charge waivers.

Note 2: Band A exchanges were forborne in Telecom Decision CRTC 2007-108.

ITEM

500.4.7.2 **OC-48 DNA Intra-exchange Channel**

Service Item	Monthly Rate (per Channel) - Minimum Contract Period					Service Charge
	1 Year	2 Year	3 Year	4 Year	5 Year	
OC-48 DNA Intra-exchange Channel	\$ 6,000	\$ 5,400	\$ 5,100	\$ 5,100	\$ 4,800	---

ITEM

500 **Digital Network Access - Continued**

ITEM

500.4 **Rates - Continued**

ITEM

500.4.7 **OC-48 DNA - Continued**

ITEM

500.4.7.3 **OC-48 DNA Channelization**

The OC-48 Channelization Feature enables an OC-48 access or channel to be connected to OC-12 and/or OC-3 channels.

Service Item	Monthly Rate - Minimum Contract Period					Service Charge (Notes 1, 2)
OC-48 Channelization to OC-12 and/or OC-3, each	1 Year	2 Year	3 Year	4 Year	5 Year	
Customer premises (Note 2)	\$5,000	\$4,500	\$4,250	\$4,250 A	\$4,000	\$1,000
Central Office	4,960	4,760	4,140	4,140	3,850	1,000

Note 1: See Item 500.4.4.1 for potential service charge waivers.

Note 2: A \$250.00 service charge will apply for subsequent activation of timeslots on a channelized circuit to a maximum of \$500.00 on a single order at the same time.

ITEM

500 **Digital Network Access - Continued**

ITEM

500.4 **Rates - Continued**

ITEM

500.4.8 **2.5 Gbps Wavelength**

ITEM

500.4.8.1 **2.5 Gbps Wavelength Access – Linear Unprotected 2 Fibre**

Access Rate Band	Monthly Rate, per Access, per location					Service Charge (Note 1)
	Minimum Contract Period					
	1 Year	2 Year	3 Year	4 Year	5 Year	
A	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
B	\$ 6,555	\$ 6,260	\$ 5,960	\$ 5,960	\$ 5,365	\$ 5,000
C	8,840	8,435	8,035	8,035	7,230	5,000
D	8,325	7,945	7,570	7,570	6,810	5,000
E	10,815	10,325	9,830	9,830	8,850	5,000
F	10,290	9,820	9,355	9,355	8,420	5,000
G	17,115	16,350	15,290	15,290	14,210	5,000

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Note 1: See Item 500.4.4.1 for potential service charge waivers.

Note 2: Band A exchanges were forborne in Telecom Decision CRTC 2007-108.

ITEM

500.4.8.2 **2.5 Gbps Wavelength Intra-exchange Channel**

Service Item	Monthly Rate (per Channel - Minimum Contract Period)					Service Charge
	1 Year	2 Year	3 Year	4 Year	5 Year	
2.5 Gbps Intra-exchange Channel	\$ 5,100	\$ 4,890	\$ 4,250	\$ 4,250	\$ 3,950	---