

**PART 5**

**DIGITAL NETWORK SERVICES**

See page 5 for explanation of symbols

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**DIGITAL NETWORK SERVICES**

Item 5000.      **DATAPAC SERVICE** – withdrawn effective 05/26/97.

See page 5 for explanation of symbols

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**DIGITAL NETWORK SERVICES**

Item 5025. **DIGITAL NETWORK SERVICES**

**1. General Description**

This section addresses Digital Network Access, Strato Route, Strato Stream, Strato Plan Service Extension Feature, Strato Plan Service Extension Access Service, Customer Volume Pricing Plan, Inter-Office Digital Channels, and Access Special Routing.

(C)

**2. General Definitions**

“Access” provides the customer with a digital access facility to connect the customer’s station equipment to the serving wire centre.

“Access Special Routing” provides for the routing of DS-1 access via an alternative path to the customer’s serving wire centre or to an alternative wire centre.

“Adjoining Exchanges” are exchanges whose boundaries are common at any point, except where a boundary consists of a large natural barrier.

“Channel Measurement”:

The distance charge or rental for inter-exchange digital channels is based on the rate distance between wire centres or rate centres in the exchanges in which the customer’s or lessee’s service points are located as follows:

- 1) Adjoining exchanges: between wire centres in whose areas the service points are located.

“Customer Volume Pricing Plan (CVPP)” allows a customer to contract for a Minimum Monthly Billing commitment (MMBC) for their services in return for a discount based on the term and the amount of the commitment.

“Digital Network Access (DNA)” provides for the digital transmission of information from the customer’s premises to another premises within the exchange at 1.544 Mbps or 44.736 Mbps, or from the customer’s premises to the rate centre to connect with other network services at speeds of less than 1.544 Mbps, 1.544 Mbps, or 44.736 Mbps.

“DS-0” is a channel capable of digital transmission at a nominal 64 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. (Access is provided on Special Assembly basis, and intra-exchange and inter-exchange channels are provided at tariffed rates.)

See page 5 for explanation of symbols

**DIGITAL NETWORK SERVICES**

Item 5025. **DIGITAL NETWORK SERVICES** – continued

**2. General Definitions** – continued

“*Exchange*” is a basic unit for the administration and furnishing of telephone service.

“*Inter-office Digital Channels*” are furnished between wire centres and/or rate centres of the Company or between rate centres of the Company and other rate centres or international border crossing points in Canada for the digital transmission of information.

“*Intra-exchange Channel*” provides the digital channel facility 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 whenever the service application requires one.

“*Link*” provides the central office equipment required to connect:

- a) an access to an intra-exchange channel,
- b) an access to a network service at the rate centre,
- c) an intra-exchange channel to a network service at the rate centre, and
- d) an access to an access.

“*Strato Plan*” is the generic name used to describe a family of services (i.e., Strato Route, Strato Stream, IPL, etc.). (C)

“*Strato Plan Service Extension Access Service*” provides for a local extension connecting a customer premise to Strato Plan Service Extension Features. (C)

“*Strato Plan Service Extension Features*” are provided at suitable equipped rate centres to connect Strato Plan equipment with a Digital Network Access or with other services provided by the Company, except digital Channel Service. The connections consist of a Basic Service Extension Feature and an Enhanced Service Extension Feature. (C)

“*Strato Plan Serving Area*” designates an exchange from which Strato Plan services are provided. (C)

“*Strato Route Service*” provides for the digital transmission of information at 1.544 Mbps (DS-1) between two points in the same exchange or between exchanges or between an exchange and an international border crossing point. Transmission in increments of 64 Kbps and at 44.736 Mbps (DS-3) is also available between exchanges and between wire centres within an exchange. (C)

“*Strato Stream 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. (C)

See page 5 for explanation of symbols

**DIGITAL NETWORK SERVICES**

Item 5025. **DIGITAL NETWORK SERVICES** – continued

**2. General Definitions** – continued

“*Non-adjointing Exchanges*” are exchanges which are not adjoining. (See definition for “Adjoining Exchanges” above.)

“*Rate Center*” designates the exchange for purposes of calculating mileage charges.

“*Serving Wire Center*” is the building from which the customer derives service.

“*V and H Distance Formula*” Mileage between rate centers or rate centers and wire centers, is measured using a vertical (V) and horizontal (H) coordinate system. The V-H system consists of a series of coordinates which represent a theoretical grid of vertical and horizontal lines covering Canada and the United States. The spacing between adjacent lines is about 1670 feet and represents a distance of one coordinate unit.

A V coordinate and an H coordinate are computed for each rate center from its latitude and longitude location, by use of appropriate map-projection equations. A pair of V-H coordinates locates a rate center, for determining airline distances, at the intersection of the vertical and horizontal grid lines so designated; it also designates the center of a square having each side about 1670 feet long and an area of about 1/10 of a square mile. The rate distance between any two rate centers is the airline distance between the points designated by the V-H coordinates of the respective rate centers.

Such distance is the square root of one-tenth the sum of the square of the difference between the V coordinates and the square of the difference between the H coordinates. Any remaining fraction of a mile is carried to the next mile. The formula is as follows:

$$\text{Rate distance} = \oplus .1((V1 - V2)^2 + (H1 - H2)^2) \quad \text{where } V1 \text{ is the larger of the V coordinates and } H1 \text{ is the larger of the H coordinates.}$$

**3. Terms and Conditions**

- a) The Company shall determine the exchanges (i.e., rate center and/or wire center, as appropriate) where it will provide service.
- b) Service is provided at the Company’s discretion within such exchanges, depending on the availability of suitable facilities and equipment.
- c) 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.
- d) The customer is solely responsible for the installation, operation and maintenance of customer provided terminal equipment.
- e) Customer terminal equipment attached to the Company’s network must be certified or connected through a certified network protection device in accordance with the Company’s Terminal Attachment Standards.

See page 5 for explanation of symbols

## DIGITAL NETWORK ACCESS (DNA)

### Item 5026. DIGITAL NETWORK ACCESS (DNA)

#### 1. Service Description

Digital Network Access provides for the digital transmission of information from the customer's premises to another premise within the exchange at 1.544 Mbps or 44.736 Mbps, or from the customer's premises to the rate center to connect with other network services at speeds of less than 1.544 Mbps, 1.544 Mbps, or 44.736 Mbps.

#### 2. Terms and Conditions

- a) The terms and conditions identified in Item 5025 (a) to (e) apply to Digital Network Access.
- b) A DS-1 channelizing feature is available whenever the service application requires one which enables a DS-1 Access or channel to be connected to DS-0 channels. The use of this feature will result in a service charge being applied to activate and interconnect unused DS-0 capacity within a DS-1 Access or channel.
- c) A DS-3 channelizing feature is available whenever the service application requires one which enables a DS-3 access or channel to be connected to DS-1 channels. The use of this feature will result in service charges as described in Item 5026.3, Note 13, being applied to activate and interconnect unused DS-1 capacity within a DS-3 access or channel.
- d) If the customer terminates a contract or a portion of a contract for local DS-1 Access Service or DS-3 Access Service prior to the expiry date of the contract term, termination charges equal to one half of the remaining charges for such DS-1 Access or DS-3 Access Service for the unexpired part of the contract will be payable in a single payment at the termination of the contract.

Termination charges will be reduced or waived if the customer re-contracts for another dedicated access service within the Company's operating territory.

1. If the committed revenues under the new contract(s) are equal to or greater than those remaining under the original contract(s), the termination charges for the original contract(s) will be waived.
2. If the committed revenues under the new contract(s) are less than those remaining under the original contract(s), the termination charges for the original contract(s) will be reduced by half the committed revenues under the new contract(s).

See page 5 for explanation of symbols

**DIGITAL NETWORK ACCESS (DNA)**

Item 5026. **DIGITAL NETWORK ACCESS (DNA)**

**2. Terms and Conditions – continued**

d) 2. If the customer terminates a contract - continued

The reduction or waiver of termination charges as specified above will apply if the contracted DS-1 Access:

- is reconfigured between one of Megaroute/Megastream, Advantage Vnet, and/or HyperStream; or
- is moved to another address within the installation order interval for the Company.

Note: For a nine-month period following the effective date of the introduction of DS-3 Access, the termination charge for DS-1 access service will be waived if the customer migrates from DS-1 access service to the channelized DS-3 service. However, the DS-3 access contract terms must be greater than or equal to the remaining term of the DS-1 access contract. Service charges will apply for the DS-3 access.

3. If the customer migrates from an existing contracted DS-3 service currently tariffed at Special Facility Tariff rates to this service, the termination charges for the current service will be waived or reduced by one-half of the DS-3 service committed revenues.

4. A customer may migrate an existing DS-3 access service currently tariffed at Special Facility Tariff rates, to this service, while continuing the same contractual conditions of contract length and lapsed interval. In this instance, no termination charges apply. This provision is available for a period of nine months from the effective date of the introduction of DS-3 Access.

(e) For the provision of DS-3 Access, wire centers in the Company's territory are categorized according to bands depicting serving areas.

See page 5 for explanation of symbols

**DIGITAL NETWORK ACCESS (DNA)**

Item 5026. **DIGITAL NETWORK ACCESS (DNA)**

**3. Rates and Charges**

The customer shall pay the following rates and charges for Digital Network Access:

a) Low Speed Access.

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

- Strato Plan Service Extension Access Service (Item 5032) for speeds up to DS-0. (C)
- FME Access (Item 5030) for speeds up to DS-0 and MTU Access (Item 5030) for 2 times 64 Kbps or 1 times 128 Kbps.
- Other services as identified in the Company's tariff.

|  | Monthly Rate | Service Charge       |
|--|--------------|----------------------|
| Access, each .....   | \$60.00      | \$300.00<br>(Note 1) |
| Link, each serving wire center or rate center, as appropriate, each circuit..... | 60.00        | N/A                  |
| Intra-exchange channel, each .....   | 20.00        | N/A                  |
| Change of operating speed, each access.....                                      | N/A          | 150.00<br>(Note 2)   |

Note 1: The service charge also applies when an existing Digital Network Access connected to Low Speed (i.e., less than 1.544 Mbps) Strato Stream Station Equipment is reconfigured to accommodate a change in terminating equipment. (C)

Note 2: This service charge applies in addition to the service charges specified in Item 5030.4(a) Note 2 associated with changes to the Service Extension Feature.

b) DS-1 Access

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

- Strato Plan services for local access for speeds of 1.544 Mbps. (C)
- IPL and EIPL for multiples of 64 Kbps up to and including 1.544 Mbps.
- Other services as identified in the Company's tariff.

See page 5 for explanation of symbols



### DIGITAL NETWORK ACCESS (DNA)

#### Item 5026. DIGITAL NETWORK ACCESS (DNA)

#### 3. Rates and Charges – continued

##### b) DS-1 Access – continued

##### 1. DS-1 Access, each customer, each location (Note 1)

| Band | Quantity of DS-1's       | Monthly Rate   |                         |        |        |        |        | Service Charges each DS-1 |            |
|------|--------------------------|----------------|-------------------------|--------|--------|--------|--------|---------------------------|------------|
|      |                          | Non-Contracted | Minimum Contract Period |        |        |        |        | Non-Contracted            | Contracted |
|      |                          |                | 1 Yr                    | 2 Yrs  | 3 Yrs  | 4 Yrs  | 5 Yrs  |                           |            |
| 1    | initial 4, each (Note 2) | \$ 420         | \$ 350                  | \$ 335 | \$ 320 | \$ 310 | \$ 300 | \$1,400                   | \$700      |
|      | over 4, each             | 420            | 205                     | 195    | 180    | 170    | 150    | 1,400                     | 700        |
|      | maximum, each 28         | 8,400          | 4,680                   | 4,460  | 4,160  | 3,960  | 3,600  | 1,400                     | 700        |
| 2    | initial 4, each (Note 2) | 510            | 425                     | 410    | 390    | 380    | 365    | 1,400                     | 700        |
|      | over 4, each             | 510            | 245                     | 235    | 220    | 205    | 185    | 1,400                     | 700        |
|      | maximum, each 28         | 10,200         | 5,620                   | 5,400  | 5,080  | 4,800  | 4,420  | 1,400                     | 700        |
| 3    | initial 4, each (Note 2) | 600            | 500                     | 480    | 460    | 445    | 430    | 1,400                     | 700        |
|      | over 4, each             | 600            | 290                     | 275    | 260    | 240    | 215    | 1,400                     | 700        |
|      | maximum, each 28         | 12,000         | 6,640                   | 6,320  | 6,000  | 5,620  | 5,160  | 1,400                     | 700        |

Note 1: Customers located in non-serving areas pay the rates of Band 3, in addition to the expense incurred or Special Facilities Tariff rates, whichever apply, to subscribe to DS-1 access.

Note 2: Applies to the initial 28 DS-1's only.

##### 2. DS-2 Link, Intra-exchange channel and Channelizing Feature

|   | Monthly Rate | Service Charge |
|---|--------------|----------------|
| Link, each serving wire center or rate center, as appropriate, all serving areas (Note 4) |              |                |
| - DS-1, each.....   | \$60.00      | N/A            |
| - DS-0, each.....   | 60.00        | N/A            |
| Intra-exchange channels: - DS-1, each.....  | 240.00       | N/A            |
| - DS-0, each.....   | 20.00        | N/A            |
| Channelizing Feature (Note 5) .....   | 90.00        | \$125.00       |

Note 4: When the channel is between the serving wire center and the rate center, Link charges as specified above apply at the serving wire center and rate center.

Note 5: To activate and interconnect unused DS-0 capability in a DS-1 Access, a service charge as specified in Item 5030.4(a) Note 2 is applied.

See page 5 for explanation of symbols

# DIGITAL NETWORK ACCESS (DNA)

## Item 5026. DIGITAL NETWORK ACCESS (DNA)

### 3. Rates and Charges – continued

The customer shall pay the following rates and charges for Digital Network Access: - continued

#### c) DS-3 Access

The following rates and charges apply for DS-3 Access:

#### 1. DS-3 Link and Intra-exchange Channel

|   | Monthly Rate | Service Charge |
|---|--------------|----------------|
| Link, each serving wire center, or rate center, as appropriate, all serving areas (Note 4)..... | \$100.00     | N/A            |
| Intra-exchange Channel, all serving areas, each.....  | 1,000.00     | N/A            |

Note 4: When the channel is between the serving wire center and the rate center, Link charges as specified above apply at the serving wire center and rate center.

#### 2. DS-3 Access:

| Band | Quantity of DS-3's (Note 10 & 11) | Monthly Rate            |                         |         |         |         |         | Service Charges each DS-3 |            |
|------|-----------------------------------|-------------------------|-------------------------|---------|---------|---------|---------|---------------------------|------------|
|      |                                   | Non-Contracted (Note 9) | Minimum Contract Period |         |         |         |         | Non-Contracted            | Contracted |
|      |                                   |                         | 1 Yr                    | 2 Yrs   | 3 Yrs   | 4 Yrs   | 5 Yrs   |                           |            |
| 1    | first                             | \$2,830                 | \$2,360                 | \$2,280 | \$2,200 | \$2,120 | \$2,000 | \$4,000                   | \$2,000    |
|      | additional                        | 1,700                   | 1,415                   | 1,370   | 1,320   | 1,270   | 1,200   | 4,000                     | 2,000      |
| 2    | first                             | 3,185                   | 2,655                   | 2,565   | 2,475   | 2,385   | 2,250   | 4,000                     | 2,000      |
|      | additional                        | 1,915                   | 1,595                   | 1,540   | 1,485   | 1,430   | 1,350   | 4,000                     | 2,000      |
| 3    | first                             | 3,540                   | 2,950                   | 2,850   | 2,750   | 2,650   | 2,500   | 4,000                     | 2,000      |
|      | additional                        | 2,125                   | 1,770                   | 1,710   | 1,650   | 1,590   | 1,500   | 4,000                     | 2,000      |

Note 9: The non-contracted DS-3 access is only provided where suitable facilities exist. If facilities must be added between the customer location and the serving wire center, additional charges will apply.

Note 10: The rates for “first” and “additional” DS-3 accesses apply when the DS-3 accesses originate from the same customer premises. Exceptions to this application are DS-3 accesses used for Access Diversity, and Megalink and/or DEA.

Note 11: Customers located in non-serving areas pay the rates of Band 3 in addition to the expense incurred or Special Facility Tariff rates, whichever apply, to subscribe to DS-3 access.

See page 5 for explanation of symbols

### DIGITAL NETWORK ACCESS (DNA)

Item 5026. **DIGITAL NETWORK ACCESS (DNA)**

#### 3. Rates and Charges – continued

The customer shall pay the following rates and charges for Digital Network Access: - continued

c) DS-3 Access – continued

#### 3. DS-3 Channelizing Feature:

| Channelizing<br>Feature<br>(Note 12) | Monthly Rates      |                         |        |         |         |         | Service<br>Charges<br>(Note 13) |
|--------------------------------------|--------------------|-------------------------|--------|---------|---------|---------|---------------------------------|
|                                      | Non-<br>Contracted | Minimum Contract Period |        |         |         |         |                                 |
|                                      |                    | Monthly                 | 1 Year | 2 Years | 3 Years | 4 Years |                                 |
| Customer<br>Premises                 | \$1,205            | \$1,005                 | \$970  | \$935   | \$900   | \$850   | \$500                           |
| Central office<br>(Note 14)          | 500                | N/A                     | N/A    | N/A     | N/A     | N/A     | 500                             |

Note 12: Any switches services such as DEA and Megalink which use DS-1 access can subscribe to the Channelizing Feature of DS-3 Access, but these accesses must be in a separate DS-3 access than other competitive applications. Any discounts are also treated separately.

Note 13: This service charge is for the initial application of the Channelizing Feature on a DS-3 Access. To activate DS-1 channels for subsequent applications on the same DS-3 Access, the service charge is \$100 per DS-1, up to a maximum of \$500, per feature.

Note 14: Central office Channelizing Feature is only available on a non-contracted monthly basis.

d) Optional Payment Plan for Construction Charges for DS-1 and DS-3 Access.

| Optional Payment Plan |          |          |
|-----------------------|----------|----------|
| 1 Year                | 3 Years  | 5 Years  |
| \$810.00              | \$310.25 | \$212.75 |

e) 10 Mbps Access

The following Access and Link rates and charges apply:

|                                  | Monthly Rate | Service Charge |
|----------------------------------|--------------|----------------|
| Access: (Note 7)                 |              |                |
| First ½ kilometer .....          | \$700.00     | \$1,000.00     |
| Each additional ½ kilometer..... | 75.00        | N/A            |
| Link .....                       | 100.00       | N/A            |

Note 7: Distance for rating purposes is actual cable distance.

See page 5 for explanation of symbols

Item 5027. **STRATO ROUTE SERVICE** (C)

**1. Service Description**

Strato Route Service provides for the digital transmission of information at 1.544 Mbps (DS-1) and at 44.736 Mbps (DS-3) between two points in the same exchange or between exchanges or between an exchange and an international border crossing point. Transmission in increments of 64 Kbps is also available between exchanges, between wire centers within an exchange, or between an exchange and an international border crossing point. (C)

**2. Definitions**

*“Channelizing DS-1”* is a feature which enables a DS-1 access or channel to be connected to DS-0 channels or other services.

*“Channelizing DS-3”* is a feature which enables a DS-3 access or channel to be connected to DS-1 level services including access, channels or other services.

*“Cross Section”* refers to the DS-0 or DS-1 furnished between the Company’s wire centers or rate centers, between the Company’s rate centers, or between the Company’s rate center and an international border crossing point in Canada.

*“Strato Plan Channel – Special Routing”* provides diverse routing of a specified group of channels in a cross section. (C)

*“Service Extension”* permits the extension of Strato Route Service to other customer service locations. (C)

*“Station”* is the multiplexer or terminal equipment provided on the customer’s side of the demarcation point. Extension of service beyond the demarcation point may require additional equipment or facilities.

**3. Terms and Conditions**

a) Service shall be provided within and between wire centers subject to the availability of suitable facilities and equipment. Multi-point and multi-drop feature configurations are available as provided for in Strato Plan Service Extension Access Service (Item 5032). (C)

b) The Company shall determine the wire centers from where service shall be provided.

c) Strato Route DS-1 Access (Item 5026.3(b)) and DS-3 Access (Item 5026.3(c)) are offered on a monthly basis, with restriction, or on a one- to five-year Minimum Contract Period (MCP) basis. Other Strato Route service components are offered on a monthly basis or under a Customer Volume Pricing Plan as detailed in Item 5040. (C)

See page 5 for explanation of symbols

- Item 5027.      **STRATO ROUTE SERVICE** (C)
3.      **Terms and Conditions** – continued
- d)      When it is necessary to install special equipment or to incur unusual expense to establish Strato Route network service, the customer shall pay an additional charge based on the equipment installed and the unusual expense incurred. (C)
  - e)      Strato Route Service may be connected to either customer or Company provided terminal equipment located at the customer's premises. (C)
  - f)      The customer is solely responsible for the installation, operation and maintenance of customer provided terminal equipment.
  - g)      The customer's terminal equipment attached to the Company's network must be certified or connected through a certified network protection device in accordance with the Company's Terminal Attachment Standards.
  - h)      A separate wire center may be designated as a 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 center, and charges for interexchange channel facilities will be calculated based on the distance measured from the rate center. In addition, the customer shall pay channel charges between the customer's normal serving wire center and the rate center, where applicable.
  - i)      The Company will provide service to the Network Interface Demarcation Point located at the customer's premises.
  - j)      The customer shall be responsible for the extension of the service to other points within the same building.
  - k)      Service Extension to the customer's premises or interconnection to other services, except Digital Channel Services, may be provided via the rate center or diversity office served by Strato Route. (C)
  - l)      DS-1 and DS-3 Access Special Routing may be provided where the customer premises are located on a route where sufficient and diverse facilities exist. In cases where sufficient and diverse facilities do not exist, access special routing may be provided based upon cost incurred or via special assembly.
  - m)      Strato Route Service may be connected to other services, subject to the rates and conditions of service as specified in the Company's Tariff. (C)

See page 5 for explanation of symbols

Item 5027. **MEGAROUTE SERVICE** – continued

**4. Rates and Charges**

The customer shall pay the following Megaroute rates and charges for each appropriate Megaroute Service Item required to establish a customer network.

- a) Access, link and channelizing features are provided at rates and charges as detailed in Item 5026.3. Intra-exchange DS-0, DS-1, and DS-3 channels between wire centers, or between a wire center and a rate center within an exchange are also furnished at the rates and charges as detailed in Item 5026.3.
- b) Inter-exchange DS-0, DS-1, DS-2 (for rating purposes), and DS-3 channels between:
  - wire centers in adjoining exchanges,
  - the rate centers of non-adjoining exchanges,
  - a rate center and an international border crossing point,
  - rate centers in different Company territories, and
  - a rate center and a point of connection with an independent telephone company,

are furnished at rates and charges as detailed in Item 5041-4(2), and Access, Link and Channelizing Feature (where applicable) charges specified in Item 5026.3.

See page 5 for explanation of symbols

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Item 5030.      **MEGASTREAM SERVICE**
**1.      Service Description**

Megastream 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.      Definitions**

*“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.

*“Megastream 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.

*“Megastream Terminating Equipment Circuit Expansion Unit”* provides equipment at the customer’s premises to expand the initial bandwidth capacity.

*“Megastream 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 center 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 center which permits the extension of Megastream Service to other customer service locations.

**3.      Terms and Conditions**

- a)      Megastream Service shall be provided at the Company’s discretion, within and between exchanges subject to the availability of suitable facilities and equipment.
- b)      The Company shall determine the exchanges from where service shall be provided.
- c)      Multi-point and multi-drop configurations are available for circuits terminating on Megastream Terminating Units.

See page 5 for explanation of symbols

|            |  |            |
|------------|--|------------|
| Item 5030. | <b>STRATO STREAM SERVICE</b>   | (C)        |
| <b>3.</b>  | <b>Terms and Conditions – continued</b>  |            |
| d)         | Strato Stream DS-1 Access (Item 5026.3(b)) and DS-3 Access (Item 5026.3(c)) are offered on a monthly basis, with restriction, or on a one- to five-year Minimum Contract Period basis. Other Strato Stream service components are offered on a monthly basis or under a Customer Volume Pricing Plan as detailed in Item 5040.   | (C)<br>(C) |
| e)         | When it is necessary to install special equipment or to incur an unusual expense to establish Strato stream Service, the customer shall pay an additional charge based on the equipment installed and the unusual expense incurred.  | (C)        |
| f)         | Strato Stream Service may be connected (by way of Strato Stream station equipment) to either customer or Company provided terminal equipment located beyond the terminating equipment at the customer's premises.  | (C)        |
| g)         | The customer is solely responsible for the installation, operation and maintenance of customer provided terminal equipment.  |            |
| h)         | A separate wire center 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 center, and charges for interexchange channel facilities will be calculated based on the distance measured from the normal rate center. In addition, the customer shall pay channel charges between the customer's normal serving wire center and the rate center, where applicable. |            |
| i)         | Service Extension to the customer's premises or interconnection to other services, except Digital Channel Services, may be provided via the rate center or diversity office served by Strato Stream.   | (C)        |
| j)         | Dedicated MTE may be located at the customer's premises or at the Company's rate center or diversity office.   |            |
| k)         | Customer terminal equipment attached to the Company's network must be certified or connected through a certified network protection device in accordance with the Company's Terminal Attachment Standards.   |            |
| l)         | Strato Stream Service may be connected to other services subject to the rates and conditions of service as specified in the Company's Tariff.  | (C)        |
| m)         | Channel capacity shall be required to accommodate such overheads as signaling and/or supervision over the Strato Stream service.   | (C)        |
| n)         | The FME and MTU may be connected to other Strato Stream station equipment located at the customer's premises.  | (C)        |

See page 5 for explanation of symbols



Item 5030. **STRATO STREAM SERVICE**

(C)

**3. Terms and Conditions** – continued

- o) For MTU dual channel operation, an MTU port is required on the MTE and FME to which the MTU is connected, for each circuit terminating on the MTU.
- p) DS-1 and DS-3 Access Special Routing may be provided at rates and charges contained in Access Special Routing, if the customer's premises are located on a route where the Company has 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.
- q) Access via the Company from the customer's premises to a Basic or Enhanced Service Extension Feature located in the Company's rate centers may be provided as detailed in Item 5031.

**4. Rates and Charges**

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

(C)

- a) Station Charges for each customer service location:

- 1) Terminating Equipment:

| Service Item                   | Monthly Rate | Service Charge     |
|--------------------------------|--------------|--------------------|
| MTE, each .....                | \$650.00     | \$1,300.00         |
| MTE Expansion Unit, each ..... | 250.00       | 300.00             |
| FME, each .....                | 300.00       | 650.00<br>(Note 1) |
| MTU, each.....                 | 40.00        | 175.00<br>(Note 1) |

Note 1: An Access Service Charge as specified in Digital Network Access, Item 5026.3(a), shall apply whenever an FME is replaced by an MTU, or vice-versa, due to the required reconfiguration of the Digital Network Access.

See page 5 for explanation of symbols

Item 5030. **STRATO STREAM SERVICE**

4. **Rates and Charges – continued**

The customer shall pay the following – continued

a) Station Charges for each customer service location – continued

2) FME/MTE Circuit Terminations:

| Service Item  | Monthly Rate | Service Charge |
|---|--------------|----------------|
| Analogue Termination, each circuit, each end                      |              |                |
| - 2/4 wire (or equivalent) E & M Signaling .....                  | \$25.00      | Note 2         |
| - Voice Circuit Conditioning.....                                 | 10.00        | Note 2, 3      |
| - Low Bit Rate Voice (LBRV) (Note 4).....                         | 40.00        | Note 2         |
| Digital Termination, each circuit, each end                       |              |                |
| - Low Speed Ports .....   | 30.00        | Note 2         |
| - Synchronous Ports .....   | 40.00        | Note 2         |
| - Dataphone Digital Service (DDS)                                 |              |                |
| Compatible Ports.....   | 75.00        | Note 2         |
| - High Speed Ports (DS-1) .....                                   | 300.00       | -              |
| - each DS-0 time slot activated.....                              | -            | Note 2         |
| - Echo Cancellation.....  | 300.00       | -              |
| - each DS-0 time slot activated .....                             | -            | Note 2         |
| - Low Bit Rate Voice each DS-0 time slot activated (Note 4) ..... | 40.00        | Note 2         |
| - MTU Ports .....   | 50.00        | Note 2, 5      |
| - Enhanced Data Feature No. 1 (Note 6).....                       | 300.00       | Note 2         |
| - Enhanced Data Feature No. 2 (Note 6).....                       | 500.00       | Note 2         |

Note 2: Initial 5 activities per customer order at \$140.00 each activity, additional activities on the same order at \$35.00 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 center.

Note 3: Circuit conditioning is required if 2-wire (or equivalent) termination or external echo cancellation is requested.

Note 4: Analogue Termination – 4 wire (or equivalent) E & M Signaling 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 (or equivalent) E & M Signaling termination or the High Speed Port termination.

Note 5: Strato Stream 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 6: This feature is provided at the Company's discretion where suitable equipment is available.

See page 5 for explanation of symbols

Item 5030. **STRATO STREAM SERVICE**

(C)

4. **Rates and Charges** – continued

The customer shall pay the following – continued

a) Station Charges for each customer service location – continued

3) MTU Digital Terminations, each circuit

| Service Item            | Monthly Rate | Service Charge |
|-------------------------|--------------|----------------|
| - Low Speed Port.....   | \$30.00      | Note 2, 7      |
| - Synchronous Port..... | 30.00        | Note 2, 7      |

Note 2: Initial 5 activities per customer order at \$140.00 each activity, additional activities on the same order at \$35.00 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 required, at the customer's premises or in the wire center.

Note 7: A service charge does not apply when installed at the same time as the MTU.

b) Access, each customer location

1) 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 rate center. It is provided at rates and charges specified in Item 5026.3 (a) and Item 5032.4.

2) DS-1 Digital Network Access

DS-1 Digital Network Access is provided at rates and charges specified in Item 5026.3 (b).

3) DS-3 Digital Network Access

DS-3 Digital Network Access is provided at rates and charges specified in Item 5026.3 (c).

4) Access via other Company services

The rates and charges for analogue local connections between a rate center and a customer's premises is identified in the Company's Tariff under local access to analogue inter-exchange channel.

See page 5 for explanation of symbols

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Item 5030.      **STRATO STREAM SERVICE**

(C)

4.      **Rates and Charges** – continued

The customer shall pay the following – continued

## c)      Network Charges

As noted in Item 5030.1, Strato Stream 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 Item 5041.

(C)

## 1)      Intra-exchange

DS-0 and DS-1 channels between wire centers, or between a wire center and a rate center within an exchange are furnished at rates and charges as detailed in Item 5026.3. These channels are not eligible for the Customer Volume Pricing Plan.

## 2)      Inter-exchange (I)

DS-0 channels between wire centers in adjoining exchanges are furnished at rates and charges as detailed in Item 5041.4 (2).

## 3)      Inter-exchange (II)

DS-0 channels between exchanges are furnished at rates and charges as detailed in Item 5041.4 (2).

See page 5 for explanation of symbols

Item 5031. **STRATO PLAN SERVICE EXTENSION FEATURES** (C)

**1. Service Description**

Strato Plan Service Extension Features are provided at suitably equipped rate centers to connect Strato Plan equipment with a Digital Network Access or with other services provided by the Company, except Digital Channel Services. The connections consist of a Basic Service Extension Feature and an Enhanced Service Extension Feature. (C)

**2. Definitions**

*“Basic Service Extension Feature (BSEF)”* is provided at rate centers to enable shared access to multiplexing and DS-1 channelizing equipment. It provides 64 Kbps Pulse Code Modulation (PCM) voice encoding, Dataphone Digital Service (DDS) compatible data encoding in addition to Drop-and-Insert capabilities. The standard DDS format also allows Sub-Rate Digital Multiplexing (SRDM) of 2.4 Kbps, 4.8 Kbps and 9.6 Kbps circuits onto a single DS-0 inter-exchange channel.

*“Drop-and-Insert”* provides the ability to demultiplex (or drop) lower speed channels from a DS-0 line and multiplex (or insert) sub-rated lines onto the same line.

*“Enhanced Service Extension Feature (ESEF)”* provides for dedicated or shared central office located Strato Stream Terminating Equipment. (C)

**3. Terms and Conditions**

- a) The Company shall determine the rate center locations where Service Extension Features will be provided.
- b) Strato Plan Service Extension Features shall be provided subject to the availability of suitable equipment and facilities. (C)
- c) For Strato Plan Service Extension Features, the customer shall pay a circuit termination charge in addition to the charge for the service extension feature. (C)
- d) Strato Plan Service Extension Features, at the distant end, may terminate on customer or Company provided multiplex equipment located on the customer’s premises, or on service extension equipment provided by the Company and located in the distant end rate center. (C)
- e) Sub-Rate Digital Multiplexing of similar and mixed sub-rate speeds is provided subject to the availability of suitable equipment and facilities.
- f) Terms and Conditions stated in Strato Plan Service Extension Access Service (Item 5032) may apply to this Tariff item. (C)

See page 5 for explanation of symbols

Item 5031. **STRATO PLAN SERVICE EXTENSION FEATURES**

(C)

**4. Rates and Charges**

The customer shall pay the following rates and charges for each service item required for Strato Plan Service Extension Features, such rates and charges being in addition to other rates and charges that may be applicable.

(C)

## a) Basic Service Extension Feature

| Service Item  | Monthly Rate | Service Charge |
|---|--------------|----------------|
| 1) Basic Service Extension Feature, each rate center, each customer ..... | \$200.00     | -              |
| 2) Circuit Termination, each circuit, each rate center .....              | 65.00        | \$80.00        |
| 3) Drop-and-Insert Feature, each DS-0, each rate center.....              | 100.00       | 100.00         |

## b) Enhanced Service Extension Feature

| Service Item  | Monthly Rate      | Service Charge      |
|---|-------------------|---------------------|
| 1) Dedicated Service Extension Feature, each rate center, located MTE ..... | \$825.00          | \$1, 300.00         |
| 2) Shared Service Extension Feature, each rate center .....                 | 300.00            | -                   |
| 3) Circuit Termination, each circuit .....                                  | 65.00             | (Note 1)            |
| 4) Low Bit Rate Voice (LBRV), each circuit, each end.....                   | 40.00<br>(Note 2) | (Note 1 and Note 2) |

Note 1: Initial 5 activities per customer order at \$140.00 each activity, additional activities on the same order at \$35.00 each. Service charges apply but are not restricted to the installation of analog and digital terminations (i.e., MTE, and Enhanced Service Extension Feature), Shared Service Extension Terminations, changes in port configuration, changes to channel grouping and other changes as required at the customer's premises or in central offices/rate centers.

Note 2: The monthly rate and service charge for Shared Service Extension Termination also apply to this service item. The service charge does not apply if the LBRV termination is installed at the same time as the ESEF circuit termination.

See page 5 for explanation of symbols

|            |   |         |
|------------|---|---------|
| Item 5032. | <b>STRATO PLAN SERVICE EXTENSION ACCESS SERVICE</b>   | (C)     |
| <b>1.</b>  | <b>Service Description</b>  |         |
|            | Strato Plan Service Extension Access Service provides for a local extension connecting a customer premise to Strato Plan Service Extension Features.  | (C)<br> |
| <b>2.</b>  | <b>Definitions</b>  |         |
|            | <i>“Data Serving Unit (DSU)”</i> means a device which provides the digital interface between customer station equipment and the Access.   |         |
|            | <i>“Inter-exchange Access Extension Channel”</i> provides the digital facility between the customer’s serving wire center and the Strato Plan Service Extension Feature or other designated network services located in the rate center in an adjoining exchange or Strato Plan Serving Area. | (C)<br> |
|            | <i>“Link”</i> is the central office equipment which connects customer’s DSU through an Access, to a Strato Plan Service Basic or Enhanced Service Extension Feature.  | (C)     |
| <b>3.</b>  | <b>Terms and Conditions</b>   |         |
| a)         | Strato Plan Service Extension Access Service shall be provided subject to the availability of suitable equipment and facilities.  | (C)     |
| b)         | The Company shall determine the locations from which Strato Plan Service Extension Access Service shall be provided.  | (C)     |
| c)         | When it is necessary for the Company to install special equipment or to incur an unusual expense to establish Strato Plan Service extension Access Service, the customer shall pay an additional charge based on the equipment installed or the unusual expense incurred.                     | (C)     |
| d)         | A DSU is required for Strato Plan Service Extension Access Service and must conform to the Dataphone Digital Service (DDS) transmission standard. The DSU may be provided by the customer or the Company.   | (C)     |
| e)         | Strato Plan Service Extension Access Service may use either customer or Company provided station equipment located at the customer’s premises.  | (C)     |
| f)         | The customer is solely responsible for the installation, operation and maintenance of customer-provided terminal equipment.   |         |

See page 5 for explanation of symbols

Item 5032. **STRATO STREAM SERVICE EXTENSION ACCESS SERVICE** (C)

**3. Terms and Conditions** – continued

- g) Customer terminal equipment attached to the Company's network must be certified or connected through a certified network protection device in accordance with the Company's Terminal Attachment Standards.
- h) Multi-point or multi-drop configurations are available using DSUs. An additional charge of one multi-point feature, as specified in 5032.4 below, applies for each Digital Network Access in the multi-point configuration.
- i) Terms and Conditions stated in Strato Plan Service Extension Features shall apply in addition to this tariff item, if applicable. (C)

**4. Rates and Charges**

The customer shall pay the following rates and charges for Strato Plan Service Extension Access Service, such rates and charges being in addition to other rates and charges that may be applicable. (C)

| Service Item  | Monthly Rate           | Service Charge         |
|---|------------------------|------------------------|
| Access .....  | Tariff Item 5026.3 (a) | Tariff Item 5026.3 (a) |
| Link .....  | Tariff Item 5026.3 (a) | Tariff Item 5026.3 (a) |
| Intra-exchange Channel.....   | Tariff Item 5026.3 (a) | Tariff Item 5026.3 (a) |
| Multi-point Feature, per access .....                                       | \$20.00                | -                      |
| Inter-exchange Access Extension Channel, each mile<br>(Notes 1 and 2) ..... | 12.00                  | -                      |

Note 1: Measured from the serving wire center to the adjoining exchange rate center.

Note 2: Required to connect to HyperStream Service in adjoining exchange.

See page 5 for explanation of symbols



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Item 5040.      **CUSTOMER VOLUME PRICING PLAN (CVPP)**
**1.      Service Description**

The Customer Volume Pricing Plan (CVPP) allows a customer to contract for a Minimum Monthly Billing Commitment (MMBC) for their services in return for a discount based on the term and the amount of the commitment.

**2.      Definitions**

*“Cumulative Usage Billing”* is the then current total billing for usage of the service with a start date coincident with the cancellation of Megastream or Megaroute contract and the signing of a contract for the reduction of termination charges.

**3.      Terms and Conditions**

- a)      Services may be added to, or subtracted from, the customer’s network at any time within the contract term without penalty, provided that the MMBC is maintained.
- b)      The actual billing in each month will be the sum of all the eligible charges less the appropriate discount. If the sum of all the eligible charges falls below the MMBC, the actual billing will be the MMBC less the appropriate discount.
- c)      The customer may commit to a higher MMBC during the contract term and obtain the increased CVPP discount for the remainder of the contract.
- d)      Should the Company alter the rates or policies for the eligible services such that the sum of all the customer’s eligible charges fall below the contracted MMBC, the customer may decrease the MMBC to the next lower MMBC level without liability, with the same contract term.
- e)      Termination of the CVPP contract for circumstances other than those in f) prior to the expiry of the contract term will result in termination charges equal to one half of the discounted MMBC at the termination charges equal to one-half of the discounted MMBC for the unexpired portion of the contract payable in a single payment at the termination of the contract.

See page 5 for explanation of symbols

Item 5040. **CUSTOMER VOLUME PRICING PLAN (CVPP)**

**3. Terms and Conditions – continued**

- f) For the purposes of termination charges for contracted Strato Stream or Strato Route service, committed revenues are the Minimum Monthly Billing Commitment less the applicable discount for the remaining portion of the contract period. (C)

Termination charges equal to one half of the remaining committed revenues will be reduced or waived as 1), 2) or 3) following if the customer:

- Revises the current contract for Strato Stream or Strato Route service (C)
  - Replaces a contracted Strato Stream or Strato Route service in whole or in part with a contract for another inter-exchange service, if appropriate, under condition 3) below. (C)
- 1) If the committed revenues under the contract(s) are equal to or greater than those remaining under the original contract, the termination charges for the original contract will be waived.
  - 2) If the committed revenues under the new contract(s) are less than those remaining under the original contract, the termination charges for the original contract will be reduced by half of the committed revenues under the new contract.
  - 3) The tracking of the cumulative usage billing begins with the cancellation of the original Strato Stream or Strato Route contract. (C)

The tracking of the cumulative usage billing ends:

- when the remaining committed revenues under the original contract are met;
- with a time period equal to the larger of three years or the original contract period for Strato Stream or Strato Route service. (C)

At the end of the tracking period, termination charges for the original contract, payable to the Company in a single lump payment, will be reduced by half the cumulative usage billing of the new service(s).

See page 5 for explanation of symbols

Item 5040. **CUSTOMER VOLUME PRICING PLAN (CVPP)**

**3. Terms and Conditions – continued**

- g) If the service provided, on any specific rate center to rate center cross-section, fails to perform in accordance with SCNM's Performance Objectives for Percentage Error-Free Seconds (PEFS) published either in the Company's Technical Practices or the Customer Technical manuals, as applicable for Strato Route or Strata Stream Service, as revised from time to time, and provided the customer provides prompt written notice of such performance failure, SCNM will have 30 days from the date of receipt of notification to rectify the problem. If by the end of the 30-day period, the service fails to perform in accordance with the PEFS Performance Objectives, the customer may, within a further 10-day period, elect in writing to terminate the service solely for that specific cross-section, including applicable local access components, without payment of the termination charges associated with the cross-section including the local access. PEFS Performance Objectives shall not be construed as guarantees or warranties and the only remedy for failure to meet performance objectives shall be provided for in this item.

(C)

This provision is in addition to any rights a customer may have pursuant to other provisions in the tariff. The application of this provision does not constitute an admission of liability for purposes of applying the other provisions in the tariff. PEFS Performance Objectives indicated above apply only to the Canadian portion of service interconnected with services provided by U.S. based carriers.

See page 5 for explanation of symbols

Item 5040. **CUSTOMER VOLUME PRICING PLAN (CVPP)**
**4. Rates and Charges**

Services eligible for discounts under a CVPP contract are the monthly recurring charges associated with:

- a) Strato Route Service, Item 5027, with the exception of Item 5027.4 (a). (C)
- b) Strato Stream Service, Item 5030, with the exception of Access, Items 5030.4 (b), and 4(d)1. (C)
- c) Strato Plan Service Extension Features, Item 5031. (C)
- d) Interoffice Digital Channels, Item 5041, with the exception of 5041.4(1).
- e) O.N.ATM Service Item 5050.

| DISCOUNT SCHEDULE |           |         |         |         |         |          |
|-------------------|-----------|---------|---------|---------|---------|----------|
|                   | Discounts |         |         |         |         |          |
| MMBC              | 1 Year    | 2 Years | 3 Years | 4 Years | 5 Years | 10 Years |
| \$ 500.00         | 5%        | 7%      | 9%      | 11%     | 13%     | 14%(x)   |
| 3,000.00          | 7%        | 9%      | 11%     | 13%     | 15%     | 16%(x)   |
| 6,000.00          | 9%        | 11%     | 13%     | 15%     | 17%     | 18%(x)   |
| 10,000.00         | 11%       | 13%     | 15%     | 17%     | 19%     | 20%(x)   |
| 16,000.00         | 13%       | 15%     | 17%     | 19%     | 21%     | 22%(x)   |
| 33,000.00         | 15%       | 17%     | 19%     | 21%     | 23%     | 24%(x)   |
| 50,000.00         | 16%       | 18%     | 20%     | 22%     | 24%     | 25%(x)   |
| 70,000.00         | 17%       | 19%     | 21%     | 23%     | 25%     | 26%(x)   |
| 100,000.00        | 18%       | 20%     | 22%     | 24%     | 26%     | 27%(x)   |
| 135,000.00        | 19%       | 21%     | 23%     | 25%     | 27%     | 28%(x)   |
| 200,000.00        | 20%       | 22%     | 24%     | 26%     | 28%     | 29%(x)   |
| 350,000.00        | 21%       | 23%     | 25%     | 27%     | 29%     | 30%(x)   |
| 650,000.00        | 22%       | 24%     | 26%     | 28%     | 30%     | 32%(x)   |

- (x) The 10-year discounts are not available for new contracts.

See page 5 for explanation of symbols

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Item 5041. **INTER-OFFICE DIGITAL CHANNELS**
**1. Service Description**

Inter-Office Digital Channels are furnished between wire centers and/or rate centers of the Company or between rate centers of the Company and other rate centers or international border crossing points in Canada for the digital transmission of information.

**2. Definitions**

*“Cross-section”* refers to the DS-0, DS-1 and DS-3 channels furnished between the Company’s wire centers or rate centers, between the Company’s rate centers or between the Company’s rate center and an international border crossing point in Canada.

*“Inter-exchange Channels”* refers to the digital facilities required to connect wire centers or rate centers of different exchanges or an international border crossing point in Canada.

*“Route Diversity”* is provided, where facilities exist, when a customer requests an additional channel between the same two locations and requires that the channel follows a different route than the first channel.

**3. Terms and Conditions**

- a) The Company determines the exchanges where service will be provided.
- b) Service is provided at the Company’s discretion within or between exchanges, depending on the availability of suitable facilities and equipment.
- c) Digital channels may be connected to other Company services or with the services and/or facilities of other carriers.
- d) Inter-office digital channels are available under a Customer Volume Pricing Plan (CVPP) as specified in Item 5040. Discounts are based on the term and the minimum monthly billing commitment. Inter-office digital channels are also available on a one-month non-contracted basis.
- e) Route diversity, where available, may be provided on request to ensure that specified groups of channels in a cross-section are maintained on separate facility structures.
- f) Channel distance is calculated as defined in Item 5025.2.
- g) Total distance charges per inter-exchange channel are calculated by multiplying the mileage by the charge per mile for the appropriate distance band and adding the base charge for that band.

See page 5 for explanation of symbols

Item 5041. **INTER-OFFICE DIGITAL CHANNELS**

**4. Rates and Charges**

The customer shall pay the following rates and charges for Inter-office Digital Channels.

1) Intra-exchange Channels

The monthly rates for Intra-exchange Channels are detailed in Item 5026.3.

2) Inter-exchange Channels

A service charge applies to provide each inter-exchange channel at the rate shown in the tables on the following pages.

- Inter-exchange (I)

The following inter-exchange channel rates apply:

- Between the wire centers of adjoining exchanges.

| Each Channel  | Monthly Rate,<br>Per mile | Service Charge<br>(Note 1) |
|---|---------------------------|----------------------------|
| DS-0 .....  | \$ 6.85                   | \$ 20.00                   |
| DS-1 or channels occupying up to DS-1 capacity .... | 82.10                     | 100.00                     |
| Channels occupying up to DS-2 capacity .....        | 239.40                    | -                          |
| DS-3 or channels occupying up to DS-3 capacity .... | 738.70                    | 500.00                     |

Note 1: The service charges are those that were previously associated with the network connection charges previously shown on page 424. They apply to the discrete channels, not to the occupied capacity used for rating purposes.

See page 5 for explanation of symbols

## Item 5041. INTER-OFFICE DIGITAL CHANNELS

## 4. Rates and Charges – continued

## 2) Inter-exchange Channels – continued

## - Inter-exchange (II)

The following inter-exchange channel rates apply (except on route-specific cross-sections) between:

- Rate centers of non-adjoining exchanges;
- A rate center of the Company and point of connection with an independent telephone company; and
- A rate center of the Company and an international border crossing point.

DS-0 Channels:

| Rate Distance (miles) |   |      | Monthly Rate, each channel |                 |                            |
|-----------------------|---|------|----------------------------|-----------------|----------------------------|
|                       |   |      | Base Charge                | Charge per Mile | Service Charge<br>(Note 1) |
| 1                     | - | 25   | \$ 0.00                    | \$12.00         | \$80.00                    |
| 26                    | - | 50   | 150.00                     | 6.00            | 80.00                      |
| 51                    | - | 100  | 240.00                     | 4.20            | 80.00                      |
| 101                   | - | 200  | 410.00                     | 2.50            | 80.00                      |
| 201                   | - | 500  | 660.00                     | 1.25            | 80.00                      |
| 501                   | - | 1000 | 860.00                     | 0.85            | 80.00                      |
| Over 1000             |   |      | 1,460.00                   | 0.25            | 80.00                      |

DS-1 Channels or channels occupying up to DS-1 capacity:

| Rate Distance (miles) |   |      | Monthly Rate, each channel |                 |                            |
|-----------------------|---|------|----------------------------|-----------------|----------------------------|
|                       |   |      | Base Charge                | Charge per Mile | Service Charge<br>(Note 1) |
| 1                     | - | 25   | \$ 0.00                    | \$144.00        | \$1,100.00                 |
| 26                    | - | 50   | 1,800.00                   | 72.00           | 1,100.00                   |
| 51                    | - | 100  | 2,880.00                   | 50.40           | 1,100.00                   |
| 101                   | - | 200  | 4,920.00                   | 30.00           | 1,100.00                   |
| 201                   | - | 500  | 7,920.00                   | 15.00           | 1,100.00                   |
| 501                   | - | 1000 | 10,320.00                  | 10.20           | 1,100.00                   |
| Over 1000             |   |      | 17,520.00                  | 3.00            | 1,100.00                   |

Note 1: The service charges are those that were previously associated with the network connection charges previously shown on page 424. They apply to the discrete channels, not to the occupied capacity used for rating purposes.

See page 5 for explanation of symbols

Item 5041. **INTER-OFFICE DIGITAL CHANNELS**
**4. Rates and Charges – continued**

## 2) Inter-exchange Channels – continued

## - Inter-exchange (II) - continued

The following inter-exchange channel rates apply (except on route-specific cross-sections) – continued

Channels occupying up to DS-2 capacity:

| Rate Distance (miles) | Monthly Rate, each channel |                 |
|-----------------------|----------------------------|-----------------|
|                       | Base Charge                | Charge Per Mile |
| 1 - 25                | \$ 0.00                    | \$420.00        |
| 26 - 50               | 5,250.00                   | 210.00          |
| 51 - 100              | 8,400.00                   | 147.00          |
| 101 - 200             | 14,350.00                  | 87.50           |
| 201 - 500             | 23,100.00                  | 43.75           |
| 501 - 1000            | 30,100.00                  | 29.75           |
| Over 1000             | 51,100.00                  | 8.75            |

DS-3 Channels or channels occupying up to DS-3 capacity:

| Rate Distance (miles) | Monthly Rate, each channel |                 |                         |
|-----------------------|----------------------------|-----------------|-------------------------|
|                       | Base Charge                | Charge per Mile | Service Charge (Note 1) |
| 1 - 25                | \$ 0.00                    | \$2, 196.00     | \$3,000.00              |
| 26 - 50               | 16,200.00                  | 648.00          | 3,000.00                |
| 51 - 100              | 25,920.00                  | 453.60          | 3,000.00                |
| 101 - 200             | 44,280.00                  | 270.00          | 3,000.00                |
| 201 - 500             | 71,280.00                  | 135.00          | 3,000.00                |
| 501 - 1000            | 92,880.00                  | 91.80           | 3,000.00                |
| Over 1000             | 157,680.00                 | 27.00           | 3,000.00                |

Note 1: The service charges are those that were previously associated with the network connection charges previously shown on page 424. They apply to the discrete channels, not to the occupied capacity used for rating purposes.

See page 5 for explanation of symbols



Item 5042. **SWITCH 56 DATA SERVICE**

**1. General**

- a) Switch 56 Data Service provides customers with digital end-to-end connectivity through the public switched telephone network by using the access components of an Exchange Access Line, Push-Tone Feature, a Switch 56 Data Service Feature and a Switch 56 Data Service Unit. (C)
- b) Switch 56 Data Service functions in the DMS Central Office switches when the serving address is less than 4.0 cable kilometres using 26 gauge cable and 5.5 cable kilometres using 22 or 19 gauge cable from the serving DMS Central Office switch. Beyond this distance, a special assembly is required.
- c) Switch 56 Data Service is offered in exchanges suitably equipped to provide this service.
- d) Switch 56 Data Service Feature provides for digital call completion at speeds of up to 56 kilobits per second.
- e) Switch 56 Data Service unit is a proprietary standalone unit located at the customer premises that interfaces the network to perform network Signaling and call supervision functions and activates test functions as specified by network commands.
- f) Switch 56 Data Service Unit terminates on a 6-position teledapt connection arrangement.
- g) Switch 56 Data Service is offered on a monthly tariff rental basis.

**2. Rates and Charges**

The following monthly recurring rates and service charges provide for the appropriate Switch 56 Data Service components.

|                                | <b>MRC</b> | <b>SC</b> |
|--------------------------------|------------|-----------|
| Switch 56 Data Service Feature | \$68.00    | \$215.00  |
| Switch 56 Data Service Unit    | \$55.00    | \$250.00  |

These charges are in addition to the monthly recurring charges and one-time service charges associated with Primary Exchange Service (Item 2040).

See page 5 for explanation of symbols

Item 5050. **O.N.ATM SERVICE**

**1. Service Description**

O.N.ATM Service provides for the digital transmission of Voice, Data and Image information, using a multiprotocol based format. The service supports the transmission of data at rates between 56Kbs and 45Mbs.

O.N.ATM service offering consists of network port, access and committed bit rate components.\*

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“Access” – provides the customer with a digital access facility to connect the customer’s station equipment to the O.N.ATM network. Tariff Item 5026 applies to the access component of the service (or the applicable tariffs of the interconnecting local exchange carrier). Access is provided where suitable facilities are available. Where suitable facilities do not exist, construction charges may apply at the Company’s discretion.

**2. Network Ports**

Network connections are available at the various transmission speeds identified in Table 1 and provide for available bit rate subscriptions. ATM and frame protocols are supported.

**3. Transmission Rate**

All network port offerings provide for a minimum bit rate of 16 Kbs. Maximum transmission rate is limited to the network port rate subscribed to in Table 1.

**4. Committed Bit Rates**

Additional levels of guaranteed transmission rate can be purchased, as set out in Table 2 and minimum subscriptions may be required for constant bit rate applications.

\* Effective September 14, 2004, Wide Area Networking Services were forborne, pursuant to Telecom Decision CRTC 2004-57.

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See page 5 for explanation of symbols

Item 5050. **O.N.ATM SERVICE**

**5. Rates and Charges**

**Table 1 – NETWORK PORTS – AVAILABLE BIT RATE (ABR)**

| Rate            | Monthly Charge | Service Charge |
|-----------------|----------------|----------------|
| 56KBPS          | \$ 180.00      | \$ 280.00      |
| 128KBPS         | 280.00         | 440.00         |
| 256KBPS         | 440.00         | 440.00         |
| 384KBPS         | 560.00         | 440.00         |
| 512KBPS         | 720.00         | 440.00         |
| 768KBPS         | 960.00         | 440.00         |
| 1.544MBPS       | 1,600.00       | 440.00         |
| 3.000MBPS       | 2,400.00       | 440.00         |
| 5.000MBPS       | 3,200.00       | 720.00         |
| 10.00MBPS       | 4,000.00       | 1,020.00       |
| 45.00MBPS (DS3) | 14,400.00      | 1,480.00       |

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**Table 2 – COMMITTED BIT RATES (CBR)**

| KBPS | Rate     | KBPS  | Rate     |
|------|----------|-------|----------|
| 32   | \$ 34.16 | 512   | \$351.68 |
| 48   | 32.56    | 576   | 397.04   |
| 64   | 45.36    | 640   | 442.40   |
| 128  | 79.52    | 704   | 487.76   |
| 192  | 124.88   | 768   | 533.12   |
| 256  | 170.24   | 832   | 578.48   |
| 320  | 215.60   | 896   | 623.84   |
| 384  | 260.96   | 960   | 669.20   |
| 448  | 306.32   | 1,024 | 714.56   |

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Note: CBR rates above 1,024Kbps will be charged at an additional \$56.70 in increments of 64Kbps.

Item 5040 Customer Volume Pricing Plan terms and conditions apply.

See page 5 for explanation of symbols

**“PAGES 446 TO 454 RESERVED FOR FUTURE USE”**

See page 5 for explanation of symbols

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