

ACCESS SERVICE

7. Special Access Service7.1 General

Special Access provides a transmission path to connect customer designated premises*, either directly or through a Company Hub where bridging, multiplexing or Customer Network Reconfiguration Service functions are performed.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

7.1.1 Channel Types

7.1.1 There are several types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

- Transmission specification,
- Bandwidth,
- Speed (i.e., bit rate,)
- Spectrum

Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces those that they desire to meet specific communications requirements.

* Company Centrex CO-like switches, Company Answering Service Concentrators and packet switches included in Public Packet Switched Network (PPSN) Service are considered to be customer premises for purposes of administering regulations and rates contained in this tariff.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel not to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this tariff, there is not restriction against doing so.

Following is a brief description of each type of channel:

Voice Grade - a channel for the transmission of analog signals within an approximate bandwidth of 300 to 3000 Hz.

Program Audio - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 50 to 15000 Hz, from 200 to 3500 Hz, from 100 to 5000 Hz or from 50 to 8000 Hz.

Video - a channel for the transmission of standard 525 line 60 field monochrome or National Television Systems Committee color video signal and one or two associated 5 or 15 kHz audio signals. The bandwidth is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 MHz.

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6, 19.2, 56 or 64 kbps.

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps.

Detailed descriptions of each of the channel types are provided in 7.2 following.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Rate Categories

There are three basic rate categories which apply to Special Access Service:

- Channel Terminations (described in 7.1.2(A) following)
- Channel Mileage (described in 7.1.2(B) following)
- Optional Features and Functions (described in 7.1.2(C) following)

(A) Channel Termination

The Channel Termination rate category provides for the communications path between a Customer-designated premises and the Serving Wire Center of that premises. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability itself is provided as an optional feature as set forth in (C) following. One Channel Termination charge applies per is terminated. This charge will apply even if the Customer-designated premises and the Serving Wire Center are located in the same Company building.

- (1) The Channel Termination rate will apply for all Company Access connections. A Channel Termination rate will apply even when the customer-designated premises and the Serving Wire Center are located in the same Company building.

(B) Channel Mileage

The Channel Mileage rate category provides for the transmission facilities between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designed premises and a Telephone Company hubs. There are two rates that apply for each band, i.e., a flat rate per band and a rate per mile.

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7. Special Access Service (Cont'd)7.1 General7.1.2 Rate Categories (Cont'd)(B) Channel Mileage(cont)

The Long Haul rate provides for the transmission facilities between either: (1) a serving wire center located within the Company's service area and a Point-of-Presence (POP) designated by the Company located outside the Company's service area, or, (2) two POPs assigned by the Company located outside the Company's service area.

(C) Optional Features and Functions

The Optional Features and Functions rate category provides for optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charges for as a single rate element.

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

A hub is a Company designated serving wire center at which bridging, multiplexing or Customer Network Reconfiguration Service functions are performed. The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.

Descriptions for each of the available Optional Features and Functions are set forth in 7.2 following.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Design Layout Report

At the request of the customer, the Company will provide to the customer the make-up of the facilities and services provided under this tariff as Special Access Service to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

7.1.4 Ordering Options and Conditions

Special Access Service may be provisioned to the customer an Access Order. Details of the ordering process are set forth in Section 5, preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

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7. Special Access Service (Cont'd)7.2 Service Descriptions

For the purpose of ordering, there are several categories of Special Access Service. These are:

Voice Grade (VG)
Digital Data (DA)
Program Audio (AP)
Video (TV)
High Capacity (RC)
Point-To-Point OC Service
Dedicated OC Service
Shared SONET Service

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Each of the components of the service is described in this section.

Customized technical specifications packages will be provided where technically feasible. If the Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order

The channel description specified the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or between a customer designated premises and a Company hub where bridging or multiplexing functions are performed.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.1 Digital Data Service(A) Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56, or 64 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Company through the Company's facilities to the customer in the received bit stream. Digital Data channels are only available via Company designated hubs and are provided between customer designated premises or between a customer designated premises and a Company hub. The 64 kbps speed requires BSZS Line Code Formatted Signal.

The customer is responsible for providing the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at its premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package DA</u>				
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>6</u>
Error-Free Seconds	X	X	X	X	X

The Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Voltages which are compatible with Digital Data Service are delineated in Technical Reference TR-NPL-000341.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.1 Digital Data Service (Cont'd)

(C) Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a Digital Data channel:

<u>CI</u>	<u>Bit Rate</u>
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-96	9.6 kbps
DU-19.2	19.2 kbps
DU-56	56.0 kbps
DU-64	64.0 kbps

Compatible channel interfaces are set forth in Technical Reference TR-NPL-000341 and PUB 62310.

(D) Optional Features and Functions

(1) Secondary Channel Capability

An arrangement that provides the customer the flexibility of utilizing a secondary channel in conjunction with a primary 2.4, 4.8, 9.6, 19.2 or 56 kbps Digital Data Service channel. The secondary channel and primary channel are provided over the same facilities.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.2 High Capacity Service

(A) Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps* or 1.544, 3.152, 6.312, or 274.176 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises, between a customer designated premises and a Company hub, or Hub to Hub for Customer Network Reconfiguration at 1.544 Mbps transmission.

The 1.544 Mbps channel may be provided in combinations of two channels (3.0 Mbps) three channels (4.5 Mbps) or 4 channels (6.0 Mbps) (N)
 |
 (N)

A MercNET 45 High Capacity channel is a channel for the transmission of nominal 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. MercNET 45 High Capacity Service channels are provided between customer designated premises or between a customer designated premises and a Company Hub.

The customer is responsible for providing the Network Channel Terminating Equipment associated with the High Capacity channel at its premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

(B) Technical Specifications Packages

Parameter	Package HC					
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Error-Free Seconds		X				

* Available only as a channel of a 1.544 Mbps facility between two Company Digital Hubs or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 kbps channels of two 1.544 Mbps facilities at a Digital Hub(s). The customer must provide system and channel assignment data.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.2 High Capacity Service (Cont'd)(B) Technical Specifications Packages (Cont'd)

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference TR-TSY-000342.

Extended superframe signaling format may be provisioned and transported on channels with technical specifications package HCI. Testing for such channels is as specified in 7.1.7(B) and any maintenance testing that is required to maintain the error free second performance specified herein. Additional testing requested by the customer is provided subject to the provisions set forth in 13.3.2 following.

(C) Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a High Capacity channel:

<u>CI</u>	<u>Bit Rate</u>
DS-15*	1.544 Mbps (DS1)
DS-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

Compatible channel interfaces are set forth in Technical References TR-NPL-000054 and TR-TSY-000342.

(D) Optional Features and Functions

- (1) Alternate Central Office Channel - Provides a transmission path for services between the customer's premises and a wire center which is not the customer's serving wire

* A 64.0 kbps channel is available as a channel(s) of a 1.544 Mbps facility to a Company hub.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.2 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)

(1) center, thus avoiding the office which would normally serve the customer. It is available only where facilities exist using 1.544 and 45 Mbps high capacity service.

(2) Service To Service Through Connect Arrangement

This provides for the interconnection of two 1.544 Mbps channels extended from multiplexed DS3 high capacity services. The ordering customer must provide channel assignments for both multiplexed services. This service can only be provided when both multiplexed DS3's are in the same wire center.

(3) Central Office Multiplexing(a) DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time division multiplexing.

(b) DS3 to DS1

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

(c) DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.2 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(3) Central Office Multiplexing (Cont'd)(d) DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

(e) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services.

(f) DS1 to Digital Data

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with individual digital data circuits to the Hub at speeds of 2.4, 4.8, 9.6, 56, or 64 Kbps

(g) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64 kbps channels utilizing digital time division multiplexing. This arrangement can be provided with the Secondary Channel Capability feature of Digital Data Service.

(h) DS0 to Subrate

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps, or five 9.6 kbps channels using digital time division multiplexing. This arrangement can be provided with the Secondary Channel Capability feature of Digital Data Service.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions

7.2.2 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(4) Clear Channel Capability

Clear Channel Capability is an optional feature that provides the customer with an increase in useable bandwidth from 1.344 Mbps to 1.536 Mbps of an unconstrained data stream across the network. Clear Channel Capability is provided only on 1.544 Mbps High Capacity service and requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code format as described in Technical Reference TR-TSY-000342. Customer equipment must be compatible with this method of providing the unconstrained signal.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package HC-					
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Central Office Multiplexing:						
DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DS0		X				
DS0 to Subrate*	X					
Clear Channel Capability		X				

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service
- Point-to-Point Service

(T)

(A) Basic Channel Description(1) General

Point-to-Point OC-3, OC-12, OC-48 and OC-192 channels provide high speed synchronous optical fiber-based full duplex data transmission capabilities. These services provide optical data transmission with the following characteristics:

- OC-3 Service provides channels operating at the terminating bit rate of 155.52 Mbps; and,
- OC-12 Service provides channels operating at the terminating bit rate of 622.08 Mbps.
- OC-48 Service provides channels operating at the terminating bit rate of 2488.32 Mbps.
- OC-192 Service provides channels operating at the terminating bit rate of 9953.28 Mbps.

OC-3, OC-12, OC-48 and OC-192 channels may be used to connect:

- one customer-designated premise to another customer-designated premise, either with or without the add/drop multiplexing capability at the customer-designated premises.
- a customer-designated premise either with or without add/drop multiplexing capability to a Telephone Company location where add/drop functions and/or cross-connections are performed.

Optical Transmission paths for OC-3, OC-12, OC-48 and OC-192 Services are differentiated by bit rate and the quality of transmission as delineated by the Optical Interface specified in established standard and technical publications.

OC-3, OC-12, OC-48, and OC-192 Service may be connected by (1) using the appropriate OC-3, OC-12, OC-48 or OC-192 add/drop multiplexer (mux) at the two customer Premises or between a customer premise and a Telephone Company location, or (2), by using the full bandwidth premise to premise, or between a customer premise and a Telephone Company location.

Add/Drop Multiplexing only occurs at the customer premise. The customer may supply the equipment, or have the Telephone Company supply the equipment for them. Add/Drop Multiplexing does not occur at the Telephone Company Serving Wire Center.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service (T)- Point-to-Point Service (Cont'd)(A) Basic Channel Description (Cont'd)(1) General (Cont'd)

Add/Drop Functions occur at the Customer Premises and at the Telephone Company Serving Wire Center in order to support the full bandwidth of the Service.

OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service based on customer requirements can be configured in any of the following ways:

OC-3 - three STS-1 (Synchronous Transport Signals) channels which each contain:

- one DS3 that is STS-1 mapped;
- up to 28 DS1s that are VT-mapped;
- an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the CBT network;
- Any of the above arrangements may be used in combination with each other subject to utilization of the total OC-3 capacity
- a single concatenated STS-3C channel.

OC-12 - twelve STS-1 channels which each contain:

- one DS3 that is STS-1 mapped;
- up to 28 DS1s that are VT-mapped;
- an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the CBT network;
- four concatenated STS-3C channels;
- Any of the above arrangements may be used in combination with each other subject to utilization of the total OC-12 capacity
- a single concatenated STS-12C channel.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service - Point-to-Point Service (T)

(A) Basic Channel Description (Cont'd)

(1) General (Cont'd)

OC-48 - forty-eight STS-1 channels which each contain:

- one DS3 that is STS-1 mapped;
- up to 28 DS1s that are VT-mapped;
- an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the CBT network;
- sixteen concatenated STS-3C channels;
- four concatenated STS-12C channels;
- any of the above arrangements may be used in combination with each other subject to utilization of the total OC-48 capacity;
- a single concatenated STS-48C channel.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service - Point-to-Point Service (Cont'd) (T)

(A) Basic Channel Description (Cont'd)

(1) General (Cont'd)

OC-192 - One hundred ninety two STS-1 channels which each contain:

- 1 DS3 that is STS1 mapped
- 64 concatenated STS-3C channels;
- 16 concatenated STS-12C channels;
- 4 concatenated STS-48c channels
- A single concatenated STS-192C channel

Any of the above arrangements may be used with in Combination with each other subject to utilization of the total OC-192 bandwidth.

(B) Channel Configuration

(1) OC-3, OC-12, OC-48 and OC-192 Channel Terminations

OC-3, OC-12, OC-48 and OC-192 Channels consist of Channel Terminations (CTs), interoffice mileage and optional features and functions.

OC-3, OC-12 OC-48 and OC-192 Channel Terminations provide optical interconnection between the Telephone Company Serving Wire Center (SWC) and the customer premise.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service - Point-to-Point Service (Cont'd) (T)(B) Channel Configuration (Cont'd)

The following types of CTs are available:

<u>Terminating Bit Rate</u>	<u>Loop Format*</u>	<u>Data Transmission Format</u>
155.52	2 fiber	Synchronous
622.08	2 fiber	Synchronous
2488.32	2 fiber	Synchronous
9953.28	2 fiber	Synchronous

When OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service is provided, the customer has the option of supplying the add/drop multiplexing at the customer premises. If the customer chooses to supply the equipment, the add/drop multiplexing must be compatible with the add/drop multiplexing used by the Telephone Company in the Serving Wire Center. The Telephone Company will work with the customer to select compatible add/drop multiplexers which conform to the requirements set forth in established standard and technical publications.

(1) OC-3, OC-12, OC-48 and OC-192 Channel Terminations

All CTs comprising a channel must have the same terminating bit rate unless add/drop multiplexing is performed at the at the customer premise with the associated add/drop function and at the Telephone Company location with the appropriate add/drop functions.

(2) Channel Mileage

Channel Mileage facilities, comprised of Fixed and Per Mile as described in Section 7.1.2(B) preceding, provide the transmission paths between Serving Wire Centers associated with two customer-designated premises or between a Serving Wire Center associated with a customer premise and a Telephone Company Hub location. Four Channel Mileage types are available - OC-3 which supports bit rate of 155.52, OC-12 transport at the 622.08 bit rate, OC-48 transport at a bit rate of 2488.32 and OC-192 transport at a bit rate of 9953.28.

*Unidirectional Path Switched Rings

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service - Point-to-Point Service (T)(B) Channel Configuration (Cont'd)(2) Channel Mileage (Cont'd)

OC-3 CTs are interconnected to OC-3 transport.
 OC-12 CTs are interconnected to OC-12 transport.
 OC-48 CTs are interconnected to OC-48 transport.
 OC-192 CTs are interconnected to OC-192 transport.

In addition, Channel Mileage can be connected between wire centers at a lower OC-N speed than the CT, if the transport is between a lower speed Add/Drop Function and:

- another lower speed Add/Drop Function;
- another lower speed Channel Termination;
- a lower speed Dedicated Ring Port;
- a lower speed Cross-Connect.

All of the above terminations must be the same speed as the Channel Mileage.

(3) Optional Features and Functions

The following optional features and functions are available: Add/Drop Multiplexing, Add/Drop Function, OC-3, OC-12, OC-48 and OC-192 Cross-Connection, 1+1 Protection with Route Survivability, 1+1 Protection with Central Office Survivability, and OC-48 and OC-192 Regenerator.

(a) OC-3, OC-12, OC-48 and OC-192 Add/Drop Multiplexing

An arrangement at the customer premise that allows an OC-3, OC-12, OC-48 or OC-192 channel operating at a terminating speed of 155.52 Mbps, 622.08 Mbps, 2488.32 Mbps, and 9953.28 Mbps, respectively, to add/drop a lower speed channel by using this feature along with the add/drop function as stated in (b) following.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service - Point-to-Point Service (Cont'd) (T)

(B) Channel Configuration (Cont'd)

(3) Optional Features and Functions (Cont'd)

(a) OC-3, OC-12 and OC-48 Add/Drop Multiplexing (Cont'd)

OC-3 add/drop multiplexing at a customer premise will provide the capability to support the full add/drop function capacity of OC-3 Service bandwidth with up to one OC-3 add/drop Function, three DS3 add/drop functions or equivalently up to three groups of 28 DS1 add/drop functions or equivalent combinations of DS3 and groups of 28 DS1 add/drop functions.

OC-12 add/drop multiplexing at a customer premise will provide the capability to support the full add/drop function capacity of OC-12 Service bandwidth with up to one OC-12 add/drop function, four OC-3 add/drop functions or up to 12 DS3 add/drop functions or equivalent combinations of OC-12, OC-3 and DS3 add/drop functions.

OC-48 add/drop multiplexing at a customer premise will provide the capability to support the full add/drop bandwidth, up to one OC-48 add/drop function, four OC-12 add/drop functions, sixteen OC-3 add/drop functions, 48 DS3 add/drop functions or equivalent combination of OC-12, OC-3 and DS3 add/drop functions.

OC-192 add/drop multiplexing at a customer premise will provide the capability to support the full add/drop function capacity of OC-192 Service bandwidth with up to one OC-192 add/drop function, four OC-48 add/drop functions, 16 OC-12 add/drop functions, 64 OC-3 add/drop functions or 192 DS3 add/drop functions or equivalent combination of DS3, OC-3, OC-12 and OC-48 add/drop functions.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service - Point-to-Point Service (Cont'd) (T)

(B) Channel Configuration (Cont'd)

(3) Optional Features and Functions (Cont'd)

(b) Add/Drop Function

The OC-3, OC-12, OC-48 and OC-192 Service are able to add or drop lower level signals as shown in the matrix following. The add/drop function is offered at a circuit level. For example, if at the customer premise, a customer drops one DS3 signal from an OC-12 service, they would pay one add/drop Function charge for the DS3, plus the OC-12 add/drop multiplexing charge. If a DS3 needs to be dropped at a Telephone Company location, the customer would pay one DS3 add/drop Function Charge. No add/drop multiplexing charge applies at the Telephone Company location.

The OC-3, OC-12, OC-48 and OC-192 Service is only able to add/or drop the services that have been identified by payload content (mapping) within the bandwidth. DS1 mapped STS-1 signals are only able to connect to a DS1, and DS3 mapped STS-1 signals are only able to connect to a DS3. If a change is required, it may be accomplished by the customer's CPE or through the current asynchronous environment for multiplexing of DS3 and DS1 services stated in Section 7.2.2.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service - Point-to-Point Service (Cont'd) (T)

(B) Channel Configuration (Cont'd)

(3) Optional Features and Functions (Cont'd)

ADD/DROP Function

	DS1	DS3	OC3	OC12	OC48	OC192	10mg	1000mg	GigE
OC-192	No*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OC-48	No*	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes
OC-12	No*	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes
OC-3	Yes	Yes	Yes	N/A	N/A	N/A	Yes	Yes	Yes

* to add/drop a DS1 from an OC-12 OC-48 and/or OC-192, an Optical to Electrical DS1 Add/Drop Capability must be purchases as well as an OC-3 Add/Drop Function and a DS1 Add/Drop Function.

(c) OC-3, OC-12, OC-48 and OC-192 Cross-Connection

This is an arrangement to cross-connect OC-3 Service, OC-12 Service OC-48 Service, or OC-192 Service to another service or to an add/drop function of the same speed at a wire center for the same or for a different customer on a per circuit basis. The customer must purchase service to the wire center from his designated premise. One charge applies per service cross-connected.

(d) Optical to Electrical DS1 Add/Drop Capability

This option allows an electrical DS1 to be derived From an OC-12 OC-48 or OC-192 by using this capability To add/drop the electrical DS1 from an OC-3 add/drop function. The OC-3 add/drop function must be purchased separately.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service - Point-to-Point Service (Cont'd) (T)

(B) Channel Configuration (Cont'd)

(3) Optional Features and Functions (Cont'd)

(d) 1+1 Protection with Route Survivability

This option will provide 1+1 protection and offer additional protection from fiber cable cuts by routing the working fiber pair via the primary route and the protect fiber pair via a physically diverse alternate route. The protect fiber will be charged on a distance-sensitive basis, based on quarter route miles, from the customer premise to the serving wire center.

This option will also provide 50 millisecond protection switching to assure 100 percent availability of the service. Any service interruption greater than one (1) minute will result in a credit equal to one month's bill for the circuit involved. If the interruption occurs on a Channel Termination without this option, normal terms and conditions for out-of-service credits as stated in 2.4.3 preceding will apply. An interruption period will start when an inoperative service is reported to the Telephone Company and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element. All other terms and conditions for Credit Allowances as stated in 2.4.3 preceding, will apply.

Installation of the 1+1 Protection with Route Survivability option will not begin until the customer has accepted the proposed routing by the Telephone Company.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service - Point-to-Point Service (Cont'd)

(T)

(B) Channel Configuration (Cont'd)

(3) Optional Features and Functions (Cont'd)

(e) 1+1 Protection with Central Office Survivability for OC-3, OC-12, OC-48 and OC-192

(a) This option will provide 1+1 protection and offer additional protection from Serving Wire Center (SWC) failure for services not terminating at the SWC. This will be accomplished by routing the working fiber pair via the primary route to the customer's SWC and the protect fiber pair to an alternate wire center chosen by the Telephone Company. The protect fiber will be charged on a distance-sensitive basis, based on quarter route miles, from the customer premise to the alternate wire center. Channel Mileage for the appropriate OC-3, OC-12, OC-48 or OC-192 Service ordered will be charged between the SWC and the alternate wire center using the V&H coordinates method as stated in National Exchange Carrier Association Tariff F.C.C. No. 4.

This option will also assure 100 percent availability of the service. Any service interruption greater than one (1) minute will result in a credit equal to one month's bill for the circuit involved. If the interruption occurs on a Channel Termination without this option, normal terms and conditions for out of service credits as stated in 2.4.3 preceding will apply. An interruption period will start when an inoperative service is reported to the Telephone Company and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element. All other terms and conditions for Credit Allowances as stated in 2.4.3 preceding, will apply.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service (T)
- Point-to-Point Service (Cont'd)

(B) Channel Configuration (Cont'd)

(3) Optional Features and Functions (Cont'd)

(e) 1+1 Protection with Central Office Survivability
for OC-3, OC-12, OC-48 and OC-192 (Cont'd)

Installation of the 1+1 Protection with Central Office Survivability option will not begin until the customer has accepted the proposed routing by the Telephone Company.

If the customer wants to use this optional feature as a ring extension with OC-12, OC-48, or OC-192 Dedicated Ring Service, then both the customer's Serving Wire Center and alternate wire center must have Nodes located on the ring. The Telephone Company will work cooperatively with the customer to determine the appropriate alternate wire center to be used for the Dedicated Ring situation. Channel Mileage will not apply to this option when used with a ring extension.

ACCESS SERVICE

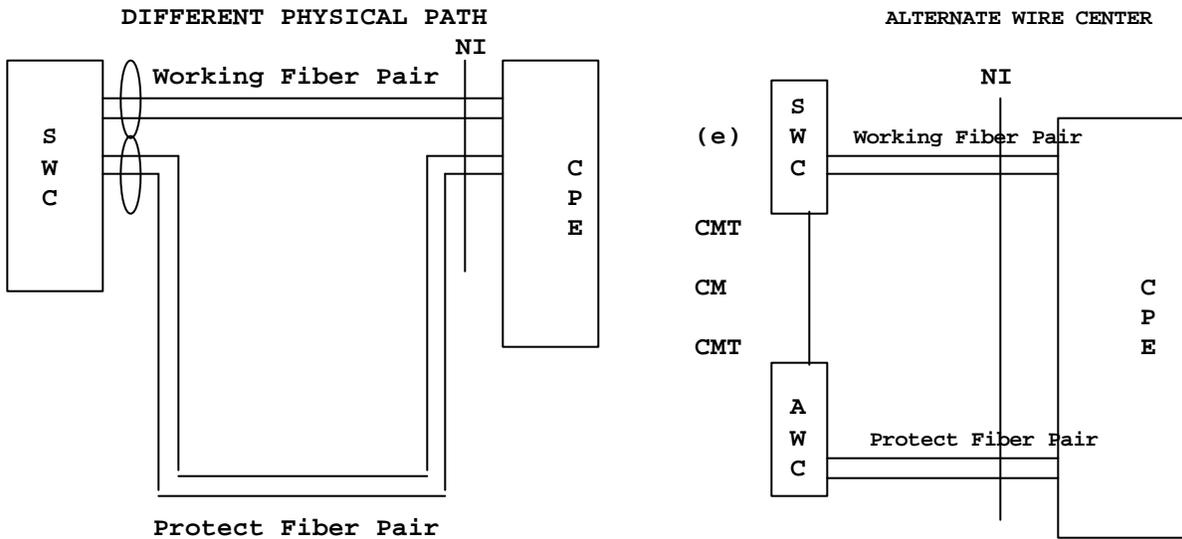
7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service - Point-to-Point Service (Cont'd) (T)

(B) Channel Configuration (Cont'd)

(1) Optional Features and Functions (Cont'd)



*CM = Channel Mileage
 *CMT = Channel Mileage Terminations

(f) OC-48 and OC-192 Regenerators

Regenerators provide essential detection and retransmission of SONET Optical signals between customer premises. Regenerators will be provided as required by the Telephone Company when actual fiber facility distances between customer designated premise and/or central office locations exceed design limits (typically 18 to 25 miles). Regenerators will be located exclusively in Telephone Company central offices.

The following diagrams provide an example of (d) and (e) above:

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service (T)
Dedicated Ring

(A) Basic Service Description

(1) General

OC-3, OC-12, OC-48 and OC-192 Dedicated Ring Service operates at the same speeds as Point-to-Point Services, however, the Dedicated Ring Service provides a customer a dedicated custom network. The network is in a ring architecture designed to provide increased reliability and functionality connecting multiple customer-designated locations and specified Telephone Company

Central Offices (COs) via self-healing network designs. Dedicated Ring Service will provide 50 millisecond protection switching to assure 100 percent availability of the services on the ring. Dedicated Ring Service is provided where appropriate SONET facilities are available. Where facilities are not available, Special Construction may apply.

Dedicated Ring Service is an alternative to OC-3, OC-12, OC-48 and OC-192 point-to-point service between multiple customer locations. Rate elements include nodes, ports, mileage between nodes, regenerators, Optical to Electrical DS1 add/drop capability and Optical OC-48 add/drop capability. Rates are specified in 7.4.3 following.

Existing customers with Point-to-Point OC-3, OC-12, OC-48 and OC-192 may upgrade to Dedicated Ring Service without termination liability.

A service interruption greater than one (1) minute will result in a credit equal to one month's bill for the individual port-to-port connection involved. An interruption of service will start when an inoperative service is reported to the Telephone Company and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service Dedicated Ring (Cont'd) (T)

(B) Dedicated Ring Configuration

(1) Nodes

The ring will provide connectivity to multiple customer-designated locations (nodes). However, a ring must have a minimum of three nodes. At least one node must be a Telephone Company CO and one must be a customer premise. A maximum of 16 nodes, including regenerators, will be allowed per ring.

The Telephone Company reserves the right to determine the order of the nodes on the ring.

When a customer premise node is located in the same building as a CO node, there will be no diversity between the two nodes.

The customer will be billed time and material for any additional charges incurred by the Telephone Company in locating Company equipment at the customer premise.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service

(T)

Dedicated Ring (Cont'd)

(B) Dedicated Ring Configuration (Cont'd)

(3) Ports

The ring capacity will be either OC-3, OC-12, OC-48 or OC-192. Lower speed channels are accessible at nodes via port terminations.

Accepted interfaces are as follows:

OC-n Ring Type

(Maximum number of ports supported by Ring Type)

PORTS	OC-3	OC-12	OC-48	OC-192
DS1	84	84/OC-3 Port**	84/OC-3 Port**	84/OC-3 Port**
DS3	3	12	48	192
OC-3	1	4	16	64
OC-12	N/A	1	4	16
OC-48	N/A	N/A	1	4
OC-192	N/A	N/A	N/A	1

OC-3 Point-to-Point service may connect to an OC-3 port of an OC-12, OC-48 ring, or OC-192 ring. OC-12 Point-to-Point service may connect to an OC-12 port of an OC-48 ring or OC-192 ring located in a Company CO. OC-48 Point-to-Point service may connect to an OC-48 port of an OC-192 ring.

As described in Section 7.2.3.A for OC-3 Service, an OC-3 port will permit the connection of STS-1 channels to other STS-1 channels across the OC-12, OC-48 or OC-192 Dedicated Ring Service subject to The overall ring capacity limits described in (6) following. Also, an STS-1 channel with DS1 payload mapping accessing an OC-12 Dedicated Ring using an OC-3 port may be connected to the Optical to Electrical DS1 add/drop capability for the purpose of connecting up to 28 DS1 ports. An STS-1 channel with DS3 payload mapping accessing the OC-12 or OC-48 Dedicated Ring using an OC-3 port may individually connect to a DS3 port.

* Optical to Electrical DS1 add/drop capability as shown in 7.2.4(B)(4) is needed along with an OC-3 Port.

** Number of interfaces on Nodes equipped for multiplexing may vary.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service
Dedicated Ring (Cont'd) (T)(B) Dedicated Ring Configuration (Cont'd)(3) Ports (Cont'd)

DS1 ports, DS3 ports and STS-1 channels within OC-3 ports may not connect to any other ports within the same node. All other port-to-port connections are allowable except for DS3 port to DS1 port connections. If a DS3 to DS1 connection is required, it may be accomplished by the customer's CPE or through the current multiplexing environment of DS3 and DS1 Services described in Section 7.2.9.

(4) Mileage

Mileage is the total airline distance between the serving wire center of each node involved on the ring. A one mile minimum will be billed between nodes.

In addition, interoffice transport may be connected between wire centers at a lower OC-N speed than the Dedicated Ring, if the transport is between a dedicated ring port and:

- a lower speed Add/Drop Function;
- a lower speed Channel Termination;
- another lower speed Dedicated Ring Port;
- a lower speed Cross-Connect;

All of the above terminations must be the same speed as the transport.

(5) Optical to Electrical DS1 Add/Drop Capability

This option allows an electrical DS1 to be derived from an optical OC-12 OC-48 or OC-192 ring by using this capability to add/drop the electrical DS1 from an OC-3 port.

(6) Dedicated Ring Regenerator

Regenerators provide essential detection and re-transmission of SONET Optical 155.52 Mbps, 622.08 Mbps, 2488.32 Mbps and 9953.28 Mbps signals between nodes. Regenerators will only be provided as required by the Telephone Company when actual fiber facility distances between customer-designated nodes exceed inter-nodal design limits (typically 18 to 25 miles). Regenerators will be located exclusively in Telephone Company COs and do not allow ports to access customer service connections.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service
Dedicated Ring (Cont'd)

(T)

(B) Dedicated Ring Configuration (Cont'd)(7) Dedicated Ring Connection Capacity

For OC-3 Dedicated Ring Service, the maximum ring capacity between nodes is not to exceed 3 STS-1 equivalents. OC-3 Dedicated Ring Services will provide capability for node-to-node connection of DS1, STS-1 or STS-3C, using DS1, DS3 and OC-3 ports on the OC-3 ring.

For OC-12 Dedicated Ring Service, the maximum ring capacity between nodes is not to exceed 12 STS-1 equivalents. OC-12 Dedicated Ring Services will provide capability for node-to-node connection of STS-1, STS-3C or STS-12C Channels using DS3, OC-3 or OC-12 ports on the OC-12 ring. DS1 Port Connections are available with OC-12 Dedicated Ring Service if an OC-3 Port and an Optical to Electrical DS1 add/drop capability is purchased.

For OC-48 Dedicated Ring Service, the maximum ring capacity between nodes is not to exceed 48 STS-1 equivalents. OC-48 Dedicated Ring Services will provide capability for node-to-node connection of DS3, STS-1, STS-3C, STS-12C or STS-48C Channels using DS3, OC-3, OC-12, or OC-48 ports on the OC-48 ring. DS1 Port Connections are available with OC-48 Dedicated Ring Service if an OC-3 Port and an Optical to Electrical DS1 add/drop capability is purchased.

For OC-192 Dedicated Ring Service, the maximum ring capacity between nodes is not to exceed 192 STS-1 equivalents. OC-192 Dedicated Ring Services will provide capability for node-to-node connection of DS3, STS-1, STS-3C, STS-12C, STS-48C or STS-192C Channels using DS3, OC-3, OC-12, OC-48 or OC-192 ports on the OC-192 ring. DS1 Port Connections are available with OC-192 Dedicated Ring Service if an OC-3 Port and an Optical to Electrical DS1 add/drop capability is purchased.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service (T)
Dedicated Ring (Cont'd)

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D. Scott Ringo, Assistant Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service (T)
Dedicated Ring (Cont'd)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service Dedicated Ring (Cont'd) (T)

(B) Dedicated Ring Configuration (Cont'd)

ACCESS SERVICE

7. Special Access Service (Cont'd)

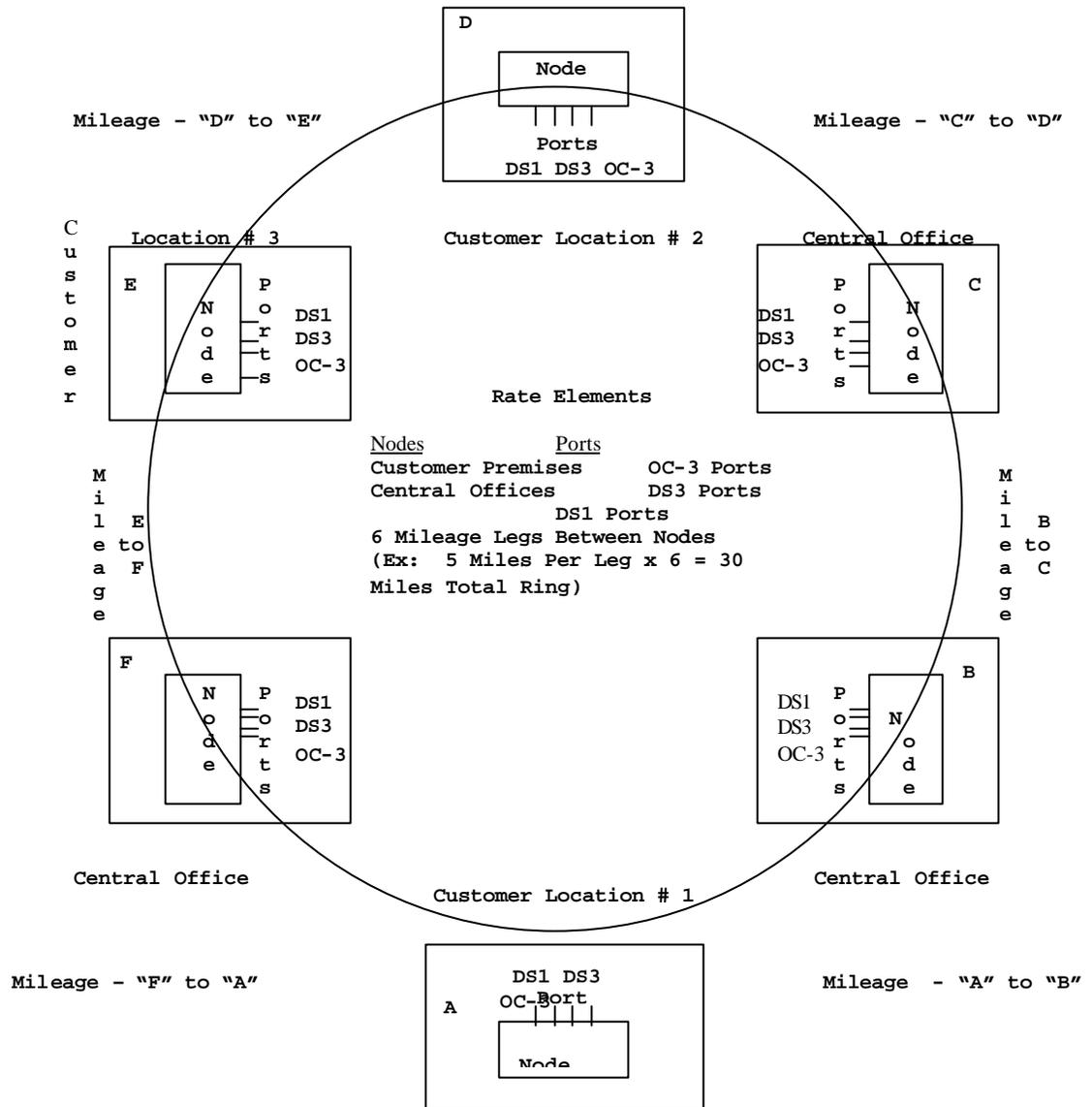
7.2 Service Descriptions (Cont'd)

7.2.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service Dedicated Ring (Cont'd) (T)

(B) Dedicated Ring Configuration (Cont'd)

(8) Diagram OC-3, OC-12 OC-48, and OC-192 Ring

CBT OC-3 Dedicated Ring Service



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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

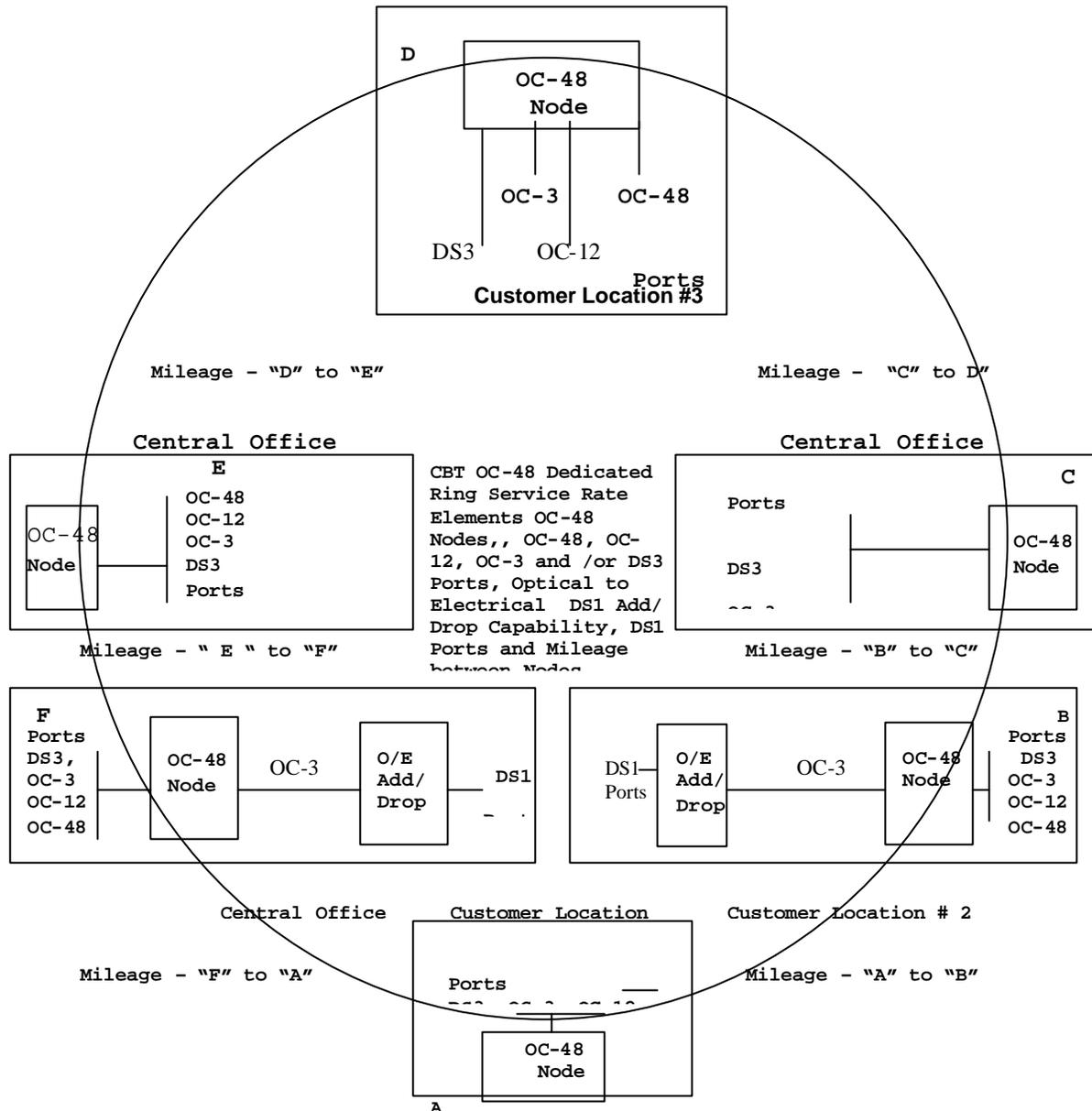
7.2.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 (T)

Service Dedicated Ring (Cont'd)

(B) Dedicated Ring Configuration (Cont'd)

(8) Diagram OC-3, OC-12, OC-48 and OC-192 Ring

CBT OC-48 Dedicated Ring Service

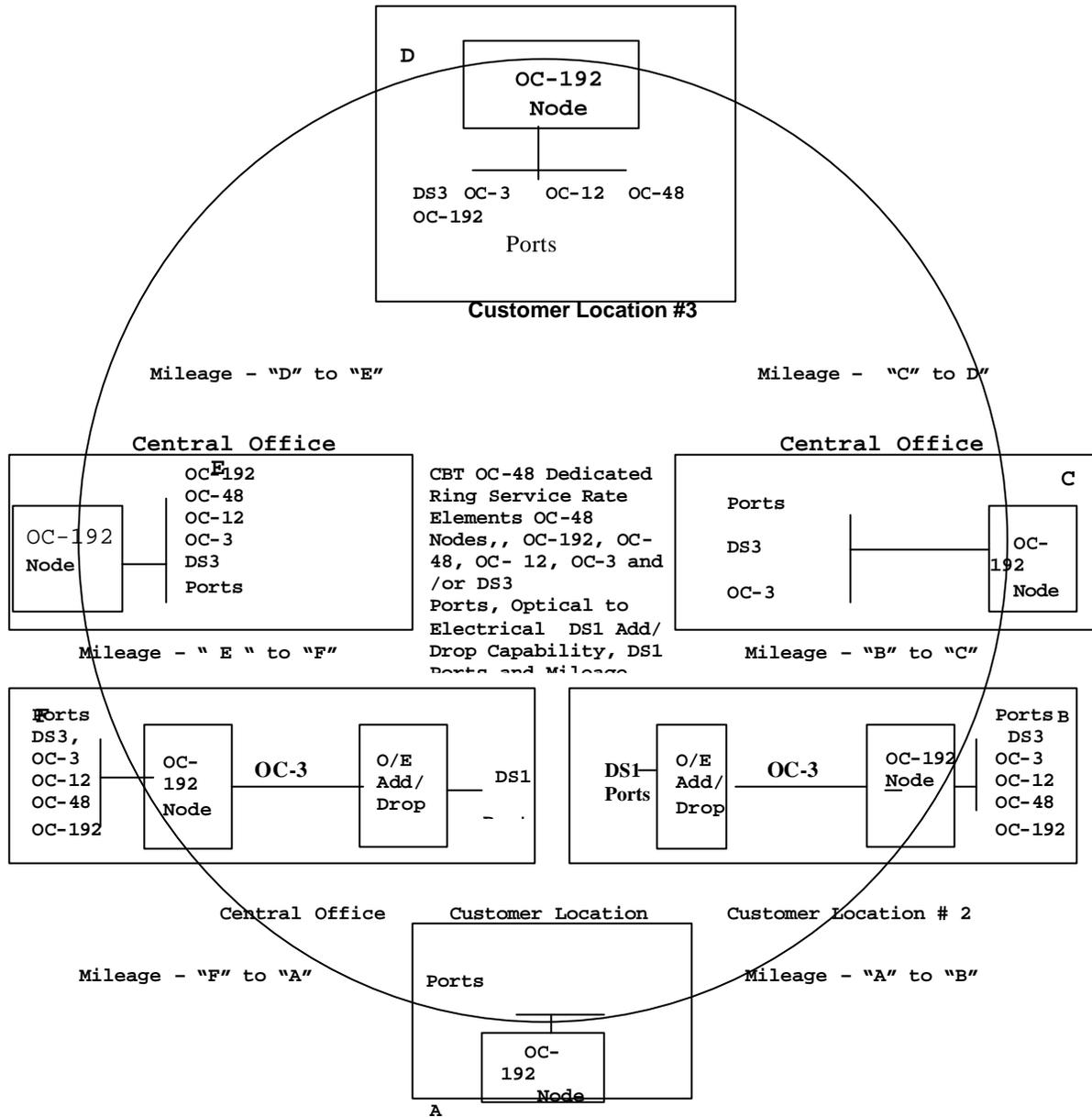


ACCESS SERVICE

7. Special Access Service (Cont'd)
 7.2 Service Descriptions (Cont'd)

7.2.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service Dedicated Ring (Cont'd) (T)

(8) Diagram OC-3, OC-12, OC-48 and OC-192 Ring
CBT OC-192 Dedicated Ring Service



ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service Dedicated Ring (Cont'd) (T)

(B) Dedicated Ring Configuration (Cont'd)

(9) Optional Payment Period

Dedicated Rings are available for either 36 month or 60 month periods. Monthly recurring charges apply for the nodes, ports and mileage between nodes. If a node is added after the initial installation of the dedicated ring, the new node will carry the same OPP rate as the initial ring and be co-terminous with that OPP. However, if a node is added during the last 12 months or less of an OPP, the customer will be billed the initial OPP ring rate for a minimum period of 12 months.

Logical changes in the ring (change in mapping content) are not considered to be a dedicated ring termination, however, any physical change would be considered a termination and all appropriate termination liability would apply as specified in paragraph 7.4.9 following. Also, all other rate regulations pertaining to OPP would apply. See Section 7.3.7 following

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.5 Shared SONET Service

A. Basic Service Description

Shared SONET service is a shared ring service which provides high performance and reliability parameters with the level of survivability designed to limit a single event from interrupting service. It provides route, central office equipment, and signal payload protection for point-to-point DS1 and DS3 channels provisioned on the shared ring. No additional optional features are required for this level of protection. It provides flat rate transport across the network of DS1, DS3, OC-3 and OC-12 (VT1.5 and STS-1) channels. Shared SONET utilizes SONET facilities and is available only in buildings and wire centers (Shared SONET Network) where the Company has established shared rings.

For locations where Shared SONET is not yet available Special Construction charges may apply. Expansion of service areas by means of Special Construction will only be allowed in designated areas consistent with the Company's construction program.

Shared SONET service must be specifically ordered even if a customer premises or serving wire center is located in the designated Shared SONET serving area.

Shared SONET will provide 50 millisecond protection switching to assure 100 percent availability of the end-to-end services within the network. When a customer's end-to-end service utilizes both the Shared SONET network and non-Shared SONET network, the non-Shared SONET network portion will have the appropriate service guarantees as specified in Section 2.4.3 preceding.

Shared SONET Service is excluded from any application of Shared Use provisions as described in 7.3.6 following.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.5 Shared SONET Service (Cont'd)

B. Channel Configuration

(1) Network Access Connection (NAC)

The Network Access Connection provides SONET based access to the Shared SONET shared transport network. NACs are available with electrical 1.544 Mbps (DS1) and 44.736 Mbps (DS3) interfaces only. The NAC is applicable when the customer's premises is located in a building on the Shared SONET network.

(2) Off-Network Access Connection (ONAC)

The Off-Network Access Connection provides a SONET based connection to the Shared SONET transport network at a company-designated Shared SONET central office. ONACs are available with electrical 1.544 Mbps (DS1), 44.736 Mbps (DS3) as well as protected optical OC-3 and OC-12 interfaces. The ONAC is applicable when the customer's premises is not located in a building on the Shared SONET network.

In addition to the ONAC charge, the customer is responsible for the appropriate Local Distribution Channel Charge (and Channel Mileage and Channel Mileage Termination charges, if appropriate) from the customer premises to the ONAC location on the network.

(3) DS3 Payload Multiplexing Function (PMF)

DS3 Payload Multiplexing Function provides the capability to multiplex up to 28 DS1 channels or 28 VT 1.5 channels with DS1 payload mapping to or from a specific

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.5 Shared SONET Service (Cont'd)

B. Channel Configuration (Cont'd)(3) DS3 Payload Multiplexing Function (PMF) (Cont'd)

DS3 channel or an STS-1 channel with DS3 payload mapping at a location determined by the Company within the Shared SONET Network. Customers can continue to maintain existing DS1 to DS3 traffic relationships while using Shared SONET access connections and banded transport. DS1 channels from across the serving area can be assigned to a specific DS3 channel for transport to a customer premises and/or a central office location. This option is only available when a DS1/VT1.5 is mapped or delivered to a DS3/STS-1 channel.

(4) Service Area Transport (SAT)

Service Area Transport provides SONET transport across the Shared SONET network. The transport is divided into three mileage bands: a) up to 3 miles, b) greater than 3 miles and up to 10 miles, and c) greater than 10 miles. Transport charges are based on the airline miles between a) the serving wire centers of two NACs, b) the serving wire centers of a NAC and an ONAC location or c) serving wire centers of two ONAC locations. SAT is available as DS1/VT1.5 point to point, DS3/STS-1 point to point or DS3, OC-3 or OC-12 channelized SAT provided on a per DS1/VT1.5 basis.

ACCESS SERVICE

7. Special Access Service (Cont'd)

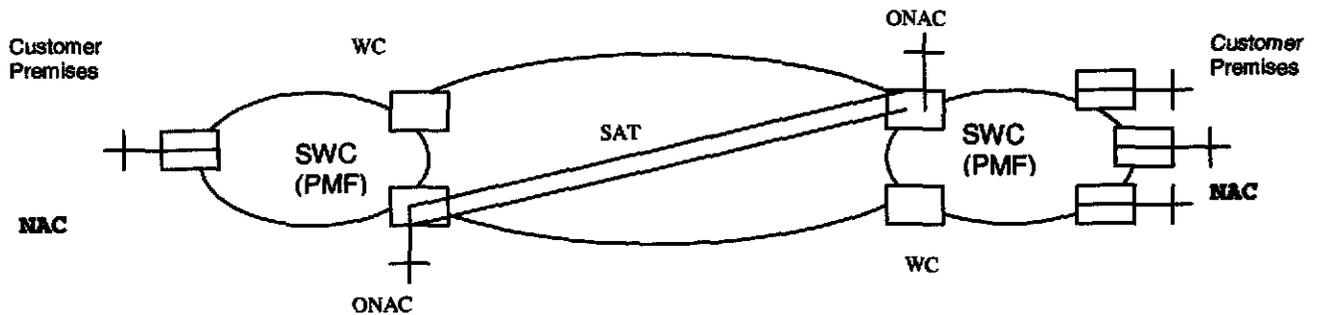
7.2 Service Descriptions (Cont'd)

7.2.5 Shared SONET Service (Cont'd)

(B) Channel Configuration (Cont'd)

The following is an example of the Shared SONET rate elements:

Shared SONET Transport Services



- NAC -- DS1 or DS3 Network Access Connection
- ONAC -- DS1, DS3, or OC-12 Off- Network Access Connection
- SAT -- DS1/VT1.5 or DS3/STS-1 Service Area Transport
- PMF -- DS3 Payload Multiplexing Function (if applicable)
- SWC -- Serving Wire Center
- WC -- Wire Center

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.5 Shared SONET Service (Cont'd)

B. Channel Configuration (Cont'd)

(5) Technical Specifications Packages

The technical specifications for Shared SONET Service are described in established standard and technical publications.

C. Optional Payment Plan (OPP)

Shared SONET Service is available for 36 or 60 month periods as described in section 7.3.7 following. Monthly recurring charges apply for NAC, ONAC, SAT and PMF, if applicable.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.6 Voice Grade Service

(A) Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company hub.

(B) Technical Specifications Packages

Parameter	Package VG-													
	C*	1	2	3	4	5	6	7	8	9	10	11	12	W
Attenuation														
Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Message Noise	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Echo Control	X	X	X	X		X		X	X			X	X	X
Envelope Delay														
Distortion	X						X	X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X	X
Impulse Noise	X					X	X	X	X	X	X	X	X	X
Intermodulation														
Distortion	X						X	X	X	X	X	X		X
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain Hits, and Dropouts		X												
Phase Jitter	X						X	X	X	X	X	X		X
Signal-to-C														
Message Noise				X										
Signal-to-C														
Notch Noise	X				X	X	X	X	X	X	X	X	X	X

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.6 Voice Grade Service (Cont'd)(B) Technical Specifications Packages (Cont'd)

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical References TR-NPL-000334 and TR-NPL-000335. The technical specifications for dropouts, phase hits, and gain hits are determined in Technical Reference FUB 41004, Table 4.

(C) Channel Interfaces

The following channel interfaces for Voice Grade service do not require signaling capability: DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

Compatible Voice Grade channel interfaces are set forth in Technical References TR-NPL-000334 and TR-NPL-000335.

(D) Optional Features and Functions(1) Central Office Bridging Capability

- (a) Voice Bridging (two-wire and four-wire)
- (b) Data Bridging (two-wire and four-wire)
- (c) Telephoto Bridging (two-wire and four-wire)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.6 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(2) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing Current helps maintain continuity on dry metallic loops.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid-link or end link. C-Type conditioning and Data Capability may be combined on the same service.

(a) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are delineated in Technical Reference TR-NPL-000335.

<u>Envelope Delay Distortion</u>	
<u>Frequency Range (Hz)</u>	<u>Variation (micro- seconds)</u>
1000-2600	100
800-2600	200
600-2600	300
500-2800	600
500-3000	3000

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.6 Voice Grade Service (Cont'd)(D) Optional Features and Functions (Cont'd)(2) Conditioning (Cont'd)(b) Sealing Current Conditioning

Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type channel interfaces.

(3) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. The level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical References TR-NPL-000334 and TR-NPL-000335.

(4) Improved Termination

On effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The Improved Termination parameters are delineated in Technical Reference TR-NPL-000335.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.6 Voice Grade Service (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Improved Return Loss

On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical References TR-NPL-000334 and TR-NPL-000335.

(6) Data Capability

Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameters for Data Capability are:

- Signal to C-Notched Noise Ratio is equal to or greater than 32dB
- Intermodulation distortion:
- Signal to second order modulation products (R2) is equal to or greater than 38dB.
- Signal to third order modulation products (R3) is equal to or greater than 42dB.

When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.6 Voice Grade Service (Cont'd)(D) Optional Features and Functions (Cont'd)(7) Telephoto Capability

Telephoto Capability provides transmission characteristics suitable for telephotographic communications. Specifically, Telephoto Capability is provided for the control of attenuation distortion and envelope delay distortion on telephotographic services. The attenuation distortion and envelope delay distortion parameters for Telephoto Capability are:

Attenuation Distortion
(2204Hz Reference)

<u>Frequency</u> <u>Range (Hz)</u>	<u>Variation</u> <u>(dB)</u>
500-3000	-0.5 to +1.5
300-3200	-1.0 to +2.5

Envelope Delay Distortion

<u>Frequency</u> <u>Range (Hz)</u>	<u>Variation</u> <u>(mcs)</u>
1000-2600	110
800-2800	180

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.6 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(8) Signaling Capability

Signaling Capability provides for the process by which one customer premises alerts another customer premises on the same service with which it wishes to communicate.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.6 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

The following table shows the technical specifications packages with which the optional features and functions are available.

Parameter	Available with Technical Specifications Package VG-													
	C	1	2	3	4	5	6	7	8	9	10	11	12	W
C-Type Conditioning	X					X	X	X	X	X	X			
Central Office Bridging Capability	X		X			X	X				X	X	X	X
Central Office Multiplexing	X						X							
Customer Specified Premises Receive Level	X		X	X				X	X	X				X
Data Capability	X						X	X			X			
Improved Termination	X	X	X	X	X	X	X	X	X	X	X	X	X	
Improved Return Loss	X		X	X				X						X
Improved Two-Wire Voice Transmission														X
Sealing Current Conditioning	X					X	X				X			
Selective Signaling Arrangement	X		X											
Signaling Capability	X	X	X	X				X	X	X				
Telephoto Capability	X												X	
Transfer Arrangement	X	X	X	X	X	X	X	X	X	X	X	X	X	X

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.6 Voice Grade Service (Cont'd)

(E) Four-Wire/Two-Wire Conversions

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The rate for the conversion is included as part of the basic Channel Termination rate.

(F) Certain other options associated with WAL services are either Line Termination or Common Switching optional features as defined in Section 6 preceding.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.7 Program Audio Service(A) Basic Channel Description

A Program Audio channel is a channel measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

(B) Technical Specifications Packages

Parameter	Package AP-				
	C*	1	2	3	4
Actual Measured Loss	X	X	X	X	X
Amplitude Tracking	X				
Crosstalk	X	X	X	X	X
Distortion Tracking	X				
Gain/Frequency					
Distortion	X	X	X	X	X
Group Delay	X				
Noise	X	X	X	X	X
Phase Tracking	X				
Short-Term Gain					
Stability	X				
Short-Term Loss	X				
Total Distortion	X	X	X	X	X

The technical specifications are delineated in Technical Reference TR-MPL-000337.

(C) Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Program Audio channel:

* The desired parameters are selected by the customer from the list of available parameters.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.7 Program Audio Service (Cont'd)

(C) Channel Interfaces (Cont'd)

<u>CI</u>	<u>Bandwidth</u>	
PG-1*	Nominal frequency from 50 to 15000 Hz	(T)
PG-3*	Nominal frequency from 200 to 3500 Hz	(T)
PG-5*	Nominal frequency from 100 to 5000 Hz	(T)
PG-8*	Nominal frequency from 50 to 8000 Hz	(T)
64kbps**	One DS0 required for 5 or 7.5 kHz bandwidth	(N)
128kbps**	Two DS0 required for 8 or 15 kHz bandwidth	(N)

*Compatible channel interfaces are set forth in Technical Reference TR-NPL-000337. (T)

** Technical specifications found in ANSI T1.505. (N)

(D) Optional Features and Functions

(1) Central Office Bridging Capability

Distribution Amplifier

(2) Gain Conditioning

Control of 1004 Hz AML at initiation of service to $0\text{dB} \pm 0.5\text{ dB}$.

(3) Stereo

Provision of a pair of gain/phase equalized channels for stereo applications. (Additional AP channel must be ordered separately.)

The following table shows the technical specifications packages with which the optional features and functions are available.

	<u>Available with Technical Specifications Package AP-</u>				
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Central Office Bridging Capability	X	X	X	X	X
Gain Conditioning	X	X	X	X	X
Stereo	X				X

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Video Service(A) Basic Channel Description

A Video channel is a channel with one-way transmission capability for a standard 525 line/60 field monochrome, or National Television Systems Committee color, video signal and one or two associated 5 or 15 kHz audio signal(s). The bandwidth for a video channel is either 30 Hz to 4.5 MHz, or 30 Hz to 6.6 MHz. The associated audio signal(s) may be either diplexed or provided as one or two separate channels. The provision and the bandwidth of the associated audio signal(s) is a function of the channel interface selected by the customer. Video channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

(B) Technical Specifications Packages

Parameter	Package TV-		
	C*	1	2
Amplitude vs. Frequency Response	X		
Chrominance/Luminance Inequalities			
Gain	X	X	X
Delay	X	X	X
Chrominance/Luminance Intermodulation	X		
Chrominance Nonlinear Gain	X		
Chrominance Nonlinear Phase	X		
Crosstalk	X		X
Differential Gain	X	X	X
Differential Phase	X	X	X
Dynamic Gain (picture and sync signal)	X		
Field-Time Distortion	X	X	X
Gain/Frequency Distortion	X	X	X
Gain Stability	X	X	X
Insertion Gain	X	X	X
Line-Time Distortion	X	X	X
Long-Time Distortion	X	X	X

* The desired parameters are selected by the customer from the list of available parameters.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 Video Service (Cont'd)

(B) Technical Specifications Packages (Cont'd)

<u>Parameter</u>	<u>Package TV-</u>		
	<u>C*</u>	<u>1</u>	<u>2</u>
Luminance Nonlinearity	X		
Luminance Signal/CCIR			
Weighted Noise	X	X	X
Short-Time Distortion			
2 T Pulse	X	X	X
T - Bar Ringing	X	X	X
Signal/15 kHz Flat			
Weighted Noise	X	X	X
Signal/Low Frequency			
Noise	X		
Stereo Gain Difference	X	X	
Stereo Phase Difference	X	X	
Total Harmonic Distortion	X	X	X
Transient Sync Signal			
Non-Linearity	X		
Video/Audio Delay			
Difference	X		

The technical specifications are delineated in Technical Reference GR-338.

(C) Channel Interfaces

The following channel interfaces (CIs) define the bandwidth and the provision of the audio signal(s) associated with a Video channel:

<u>CI</u>	<u>Audio Bandwidth</u>	<u>Provision</u>
2TV6-1	15kHz	1 Channel, diplexed
2TV6-2	15kHz	2 Channels, diplexed
2TV7-1	15kHz	1 Channel, diplexed

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Video Service (Cont'd)(C) Channel Interfaces (Cont'd)

<u>CI</u>	<u>Bandwidth</u>	<u>Provision</u>
2TV7-2	15kHz	2 Channels, diplexed
4TV6-5	5kHz	1 Channel, separate
4TV6-15	15kHz	1 Channel, separate
4TV7-5	5kHz	1 Channel, separate
4TV7-15	15kHz	1 Channel, separate
6TV6-5	5kHz	2 Channels, separate
6TV6-15	15kHz	2 Channels, separate
6TV7-5	5kHz	2 Channels, separate
6TV7-15	15kHz	2 Channels, separate

Compatible channel interfaces are set forth in
Technical Reference GR-338

(D) TV Analog Video Optional 3rd And 4th Audio Channel

An optional 3rd or 4th associated audio channel may be provided over diplexed channels. In order to purchase this option, a Channel Termination must be purchased for a minimum of one month.

(E) Serial Component Video Service (TV-270)

(N)

Serial Component Video Service (SCVS) is a broadband digital video transport channel with one-way transmission capability. SCVS provides 270 Mbps high quality video as defined by the Society of Motion Picture and Television Engineers (SMPTE) Standard 259M. This standard describes a serial digital interface, 525 line/60 field National Television Systems Committee (NTSC) digital television equipment operating with 4:2:2 serial component signals that conform to American National Standard Institute (ANSI) digital format.

One to 4 audio signals may be provided at 20kHz.

A Channel Termination charge applies for each termination of SCVS. A fixed and per mile Channel Mileage rate element also applies for the transmission facility between the serving wire centers of the Customer's designated premises. Monthly recurring Channel Termination and Channel Mileage rates are shown in Sections 7.5.8 (D) and 7.5.8 (B) respectively.

Where facilities for SCVS are not available, Special Construction charges may apply.

(N)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 Video Service (Cont'd)

(F) High Definition TV Service (HDTVS)

(N)

High Definition TV Service (HDTVS) provides point-to-point distribution of a 1.4 gbps or 19.4 gbps digital broadcast signal with up to four mono channels of embedded audio. These four channels can be set up as two stereo-phased signals. HDTV is provisioned in accordance with Advance Television Systems Committee (ATSC) standards recommendations

A Channel Termination charge applies for each termination of HDTVS. A fixed and per mile Channel Mileage rate element also applies for the transmission facility between the serving wire centers of the Customer's designated premises. Monthly recurring Channel Termination and Channel Mileage rates are shown in Sections 7.5.5 (E) and 7.5.5 (B) respectively.

Where facilities for HDTVS are not available, Special Construction charges may apply.

(N)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Rate Regulations7.3.1 Types of Rates and Charges

There are three types of rates and charges. These are monthly rates, daily rates and nonrecurring charges. The rates and charges are described as follows:

(A) Monthly Rates

Monthly rates are flat recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

For Channel Terminations associated with MerCNET 45 High Capacity Service there are higher monthly rates for the first channel termination and lower monthly rates for the second, third and above channel terminations provided when the following conditions are met:

- The first, second, and third and above service(s) are billed to the same customer premises.
- The first, second, and third and above service(s) must be provided to the same customer premises.
- Each subsequent order for a channel termination is eligible for the appropriate lower monthly rate.

For Channel Terminations associated with MerCNET 45 High Capacity Service - 12 Pack Arrangement the following conditions must be met:

- The 12 pack arrangement must be billed to the same customer.
- The 12 pack arrangement must be provided to the same premises.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Rate Regulations (Cont'd)7.3.1 Types of Rates and Charges (Cont'd)(B) Daily Rates

Daily rates are flat recurring rates that apply to each 24 hour period or fraction thereof that a Program Audio or Video Special Access Service is provided for part-time or occasional use. For purposes of applying daily rates, the 24 hour period is not limited to a calendar day.

The application of daily rates for Program Audio and Video service for consecutive 24 hour periods during a consecutive 30 day period is as follows. Daily rates will be topped at an amount equal to the monthly rate (i.e., the charge to the customer for usage billed at daily rates will not exceed the monthly rate). For each day or partial day that the service is available for use after the daily rates have been topped, a charge equal to 1/30th of the monthly rate will apply.

(C) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements.

(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set forth in 7.4 following as a nonrecurring charge for the Channel Termination rate element.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Rate Regulations (Cont'd)

7.3.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(2) Installation of Optional Features and Functions

Nonrecurring charges apply for the installation of some of the optional features and functions available with Special Access Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service.

The optional features for which nonrecurring charges apply are:

- Voice Grade Data Capability
- Voice Grade Telephoto Capability
- Program Audio Gain Conditioning
- Program Audio Stereo
- Service to Service through Connect Arrangement- 1.544 Mbps
- High Capacity Clear Channel Capability

(3) Service Rearrangements

Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements as set forth in 5.2.5 (C) preceding or a change in the physical location of the point of the termination at a customer designated premises. Changes which result in the establishment of new minimum period obligations are treated as disconnects and starts.

Changes in the physical location of the point of the termination are treated as moves and are described and charged for as set forth in 7.3.9 following.

The charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves actual physical change to the service. Administrative changes will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Access Service to the same entity (i.e., customer remains responsible

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Rate Regulations (Cont'd)7.3.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)

for all outstanding indebtedness for the Access Service). Administrative changes are as follows:

- Change of customer name, (i.e., the customer of record does not change but rather the customer of record changes its name.
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction

All other service rearrangements will be charged for as follows:

- If the change involves the addition of other customer designated premises to an existing multipoint service, the nonrecurring charge for the channel termination rate element will apply. The charge(s) will apply only for the location(s) that is being added.
- If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.
- For all other changes, including the addition of an optional feature or function without a separate nonrecurring charge, a charge equal to a channel termination rate element nonrecurring charge will apply. Only one such charge will apply per channel termination, for all changes of this type made at one time.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Rate Regulations (Cont'd)7.3.2 Minimum Periods

The minimum service period for all services is one month except as follows:

- (A) The minimum service period for part-time and occasional video service is one day (i.e., a continuous 24 hour period, not limited to a calendar day).
- (B) The minimum period for individual case basis (ICB) high capacity services is one month unless otherwise specified in the ICB filing.
- (C) For Optional Payment Plans (OPP) for Digidat Data Service MercNET 45 and 1.544 High Capacity Services the minimum period is specified in paragraph 7.3.7 following.
- (D) The minimum service period for Voice Grade, DS1, DS3, Point-to-Point OC-3, OC-12 or OC-48 Services is 12 months. After the minimum period is satisfied, see specified regulations in paragraph 7.4 following.
- (E) The minimum service period for OC-3 Dedicated Ring, OC-12 Dedicated Ring or OC-48 Dedicated Ring service is 36 months. After the minimum period is satisfied, see specified regulations in paragraph 7.4 following

7.3.3 Moves

A move involves a change in the physical location of one of the following.

- The Point of Termination at the customer's premises
- The customer's premises

The charges for the move are identical whether the move is to a new location within the same building or to a different building.

All moves will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued services.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Rate Regulations (Cont'd)7.3.4 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage is calculated on the airline distance between the locations involved, i.e., the serving wire centers associated with two customer designated premises, a serving wire center associated with a customer designated premises and a Company hub, or two Company hubs. The serving wire center associated with a customer designated premises is the serving wire center from which this customer designated premises would normally obtain dial tone.

Mileage is shown in 7.4 following in terms of mileage bands. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF FCC No. 4, then find the band into which the computed mileage falls and apply the rate shown for that band. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage band and applying the rates.

When hubs are involved, mileage is computed and rates applied separately for each section of the Channel Mileage, i.e., customer designated premises serving wire center to hub, hub to hub and/or hub to customer designated premises serving wire center. However, when any service is routed through a hub for purposes other than customer specified bridging, multiplexing or Customer Network Reconfiguration Service (e.g., the Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the customer designated premises.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Rate Regulations (Cont'd)7.3.5 Facility Hubs

A customer has the option of digital high capacity facilities (i.e., DS1, DS1C, DS2, DS3 or DS4) to a facility hub for channelizing to individual services requiring lower capacity facilities.

Different locations may be designated as hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. When placing an Access Order the customer will specify the desired hub. The National Exchange Carrier Association Tariff FCC No. 4 identifies serving wire centers, hub locations and the type of multiplexing functions available.

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from digital to voice frequency channels

End to end services may be provided on channels of these facilities to a hub. The transmission performance for the end to end service provided between customer designated premises will be that of the lower capacity or bit rate.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Rate Regulations (Cont'd)7.3.5 Facility Hubs (Cont'd)

The Company will commence billing the monthly rate for the facility to the hub on the date specified by the customer on the Access Order. Individual services utilizing these facilities may be installed coincident with the installation of the facility to the hub or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for a High Capacity digital Channel Termination, Channel Mileage (when applicable) and the multiplexer at the time the facility is installed. Individual service rates (by service type) will apply for a Channel Termination and additional Channel Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading multiplexing occurs when a high capacity digital channel is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a MeromNT 45 (DS3) facility is de-multiplexed to 28 DS1 facilities and then one of the DS1 facilities is further de-multiplexed to individual Digital Data Service channels (i.e., 2.4, 4.8, 9.6, 56 or 64 kbps channels).

When cascading multiplexing is performed, whether in the same or a different hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different hubbing locations, Channel Mileage charges also apply between the hubs.

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7. Special Access Service (Cont'd)7.3 Rate Regulations (Cont'd)7.3.5 Facility Hubs (Cont'd)

Although not requiring multiplexing, certain services must be routed to Company designated hubs when connection is desired with other broadcast facilities. A customer can order full-time and/or part-time service(s) between customer designated premises and a hub and will be billed accordingly at the rates set forth in 7.5.4 or 7.5.5 following for the full-time or part-time service, as appropriate. At the request of a customer, the full-time and/or part-time services provided to the hub may be connected together in the following configurations: full-time to full-time, full-time to part-time or part-time to part-time. The customer will be charged for each such connection made at the rates for Other Labor as set forth in 13.2.6(C) following. The rates that apply for the service between each customer designated premises and the hub are a Channel Termination and Channel Mileage, if applicable

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Rate Regulations (Cont'd)7.3.6 Shared Use High Capacity Services

Shared use occurs when Special Access Service and Switched Access Service including CCSAC signaling connections are provided over the same High Capacity facilities through a common interface. The facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexer). The nonrecurring charge that applies when the shared use facility is installed will be the nonrecurring charge associated with the appropriate Special Access High Capacity Channel Termination. Individual service including Switched Access CCSAC signaling connections (i.e. Switched or Special Access) non-recurring charges will not apply to the individual channels of the shared used facility. Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for providing Switched Access Service including CCSAC signaling connections. As each individual channel is activated for Switched Access Service including CCSAC signaling connections, the Special Access Channel Termination Channel Mileage and Multiplexer rates, as appropriate, will be reduced accordingly (e.g., 1/24th for a DS1 service, etc.) The customer must place an order for each individual Switched or Special Access Service including CCSAC signaling connections utilizing the Shared Use Facilities and specify the channel assignment for each such service including CCSAC signaling connections.

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7. Special Access Service (Cont'd)7.3 Rate Regulations (Cont'd)7.3.6 Shared Use High Capacity Services and OC-3, OC-12, and OC-48 Services (Cont'd)

Switched Access Service rates and charges as set forth in 6.6 preceding will apply for each channel of the shared use facility that is used to provide a Switched Access Service including CCSAC signaling connections. The ordering, provisioning and rating of Switched Access Shared Use facilities is set forth in 6.5.8 preceding. Where Special Access Service is provided utilizing a channel of the shared use facility to a Hub, High Capacity and OC Service rates and charges will apply for the facility to the Hub as set forth preceding and individual service rates and charges will apply from the Hub to the customer designated premises. The rates and charges that will apply to the portion from the Hub to the customer designated premises will be dependent on the specific type of Special Access Service that is provided. The applicable rates and charges will include a Channel Termination and Channel Mileage, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply as set forth in 7.4 following.

7.3.7 Payment Plans for Digital Data Service, MercNET 45, 1.544 High Capacity Services and OC-3, OC-12, OC-48 Services Shared SONET Service LAN Advantage Service and Wavelength Service. (D)

The Optional Payment Plan (OPP) is a provision that allows a customer to pay a fixed rate for specific Digital Data Service, MercNET 45, 1.544 High Capacity Service, OC-3/STM-1, OC-12/STM-4, OC-48/STM-16, OC-192/STM-64 Services, Shared SONET Service, LAN Advantage Service, Ethernet Service and Wavelength Service over a specified month payment period. OPP options are 36 and 60 months for Digital Data Service and Shared SONET Service; 12, 24, 36, 48, 60, and 84 months for DS1, DS3, OCN Point-to-Point OCN Dedicated Ring Services, Wavelength Service and Ethernet Service. During the effective term, monthly rates for services installed under this arrangement will not be subject to Company initiated rate changes. (D)

Digital Data Service, MercNET 45, and 1.544 High Capacity, OC-3, OC-12, and OC-48 Service rates, and Shared SONET Service and charges for which the OPP is available are listed in 7.4.1, 7.4.2, 7.4.3, 7.4.4, 7.4.5, 16.6, 17.6 and 18 following. (D)

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7. Special Access Service (Cont'd)7.3 Rate Regulations (Cont'd)7.3.7 Payment Plans for Digital Data Service, MercNET 45, 1.544 High Capacity Service and OC-3, OC-12, and OC-48 Services, Shared SONET Service LAN Advantage Service and Wavelength Service. (Cont'd) (D)

Customers subscribing to the OPP will be subject to nonrecurring charges as specified in 7.3.1(B), 7.4.1(A) and 7.4.2(A) for installation and rearrangements of services covered by the plan. The nonrecurring charges will not be spread over the OPP term.

During a customer's OPP/DCP term, the customer shall pay current rates provided they do not exceed the original rate contracted for by the customer. Conversion of service may be made to a new OPP/DCP term of the same or different length or to a higher speed service or to the same or higher speed Shared SONET service. If the expiration date for the new service or OPP/DCP term is beyond the end of the original OPP/DCP term, the remaining OPP/DCP charges for the original term will not apply.

At the expiration of the OPP term and if the customer wishes to continue Digital Data Service, MercNET 45, 1.544 High Capacity Service, and OC-3, OC-12, OC-48 Services, Shared SONET Service, LAN Advantage Service and Wavelength Service, the customer may elect: (D)

- Prevailing month-to-month tariff rates
- A new OPP at the prevailing OPP rate, if available

The customer continues to receive the OPP rate on a month-to-month basis for a period of up to six months following the completion of the term. After the six months, the rates will automatically revert to the month-to-month rates.

During an OPP term, a customer may move one Channel Termination service to another location while keeping the OPP in force, provided the customer and customer's end user remain the same and no lapse in service occurs.

The Minimum Period for service provided under an OPP is the same as the OPP term selected by the customer (i.e. 36 or 60 month payment period). The Minimum Period for service provided under the month-to-month payment arrangement is 36 months for OC-3, OC-12, and OC-48 Dedicated Ring Services, 12 months for Metallic Service, Voice Grade Service, DDS Service, 1.544 High Capacity Service, MercNET 45 Service, OC-3, OC-12, and OC-48 Point-to-Point Services, Shared SONET Service, LAN Advantage Service and Wavelength Service. (D)

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Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Rate Regulations (Cont'd)

7.3.7 Payment Plans for Digital Data Service, MercNET 45, 1.544 High Capacity Service and OC-3, OC-12, OC-48 Services, Shared SONET Service LAN Advantage Service And Wavelength Service (Cont'd) (D)

Customers requesting termination of service prior to the expiration date of the Minimum Period will be liable for payment of a Minimum Period Charge. The Minimum Period Charge applies to all features associated with a service. The Minimum Period Charge for all OPP terms will be calculated as follows:

- Customers with a 12 month OPP would pay a charge equal to the total of the remaining months of the OPP contract. The Termination rate calculation is:

[12 months - months in service] X 12 month OPP monthly rate.

- Customers with a 36 month OPP would pay a charge equal to the total of the remaining months of the OPP contract. The Termination rate calculation is:

[36 months - months in service] X 36 month OPP monthly rate.

- Customers with a 60 month OPP would pay a charge equal to the total of the remaining months of the OPP contract. The Termination rate calculation is:

[60 months - months in service] X 60 month OPP monthly rate.

*Inclusion of early termination liability by the Company in its tariff or a contract does not constitute a determination by the Commission that the termination liability imposed by the Company is approved or sanctioned by the Commission. Customers shall be free to pursue whatever legal remedies they may have should a dispute arise.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Rate Regulations (Cont'd)

7.3.8 MercNET 45 High Capacity Service - 12 Pack Arrangement

In addition to rate regulations preceding in 7.4.9, the following terms and conditions are listed below:

- New contract periods would be established at the time the circuits are converted to the new 12 pack arrangement.
- The minimum for the 12 pack arrangement is 12 MercNET 45's. If the customer goes below the minimum the customer will automatically be reverted to the existing tariff structure by contract period. The appropriate rate in the existing tariff structure will be applied based on the existing contract period of the 12 pack arrangement.

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In Accordance with Case No. 04-1787-TP-ACE,
issued by the Public Utilities Commission of Ohio

D. Scott Ringo, Assistant Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.3.9 Discount Commitment Program (DCP)

(A) General Description

The Discount Commitment Program (DCP) provides the customer with rate stabilization and discounted rates for Digital Data Service, 1.544 High Capacity Service, MercNET 45 Service, OCn Services, Shared SONET Service Wavelength Service and Ethernet Service. The customer agrees to a minimum service commitment per service when establishing a DCP. The rate elements by service are:

- Digital Data Service;
 - Channel Termination, Channel Mileage
- 1.544 High Capacity Service, MercNET 45 Service;
 - Channel Termination Channel Mileage, Multiplexing
- OCn Point-to-Point Service;
 - Channel Termination Channel Mileage, Add drop Multiplexing
- OCn Dedicated Ring Service;
 - Ports, Nodes, Channel Mileage, Add/Drop Multiplexing, Regenerators
- Wavelength Service, Ethernet Service;
 - Ports,
- Shared SONET Service;
 - Network Access Connection, Off-Network Access Connection, Service Area Transport, DS3 Payload Multiplexing

Customers may disconnect or move Channel Terminations, Multiplexing, Network Access Connections, Off-Network Access Connections, Nodes or Ports and not be subject to Maximum Termination Liability charges as long as commitment Levels are maintained.

DCPs may be established by service and be of either 36 or 60 months duration for Digital Data, and Shared SONET Services or 12, 24 36, 48, 60, and 84 months duration for 1.544 High Capacity, OCN Point-to-Point, OCN Dedicated Ring. Wavelength and Ethernet Services. A customer may have only one DCP per service in effect at one time. For example, a customer that has a 36-month DCP for Digital Data Service may not establish a second Digital Data Service until the current DCP expires.

(C)
|
(C)

Monthly rates for services installed under a DCP will change as Telephone Company-initiated rate changes become effective but during the DCP term will not exceed the original monthly rate in effect at the beginning of customer's DCP term.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Rate Regulations (Cont'd)

7.3.9 Discount Commitment Program (DCP) (Cont'd)

(A) General Description (Cont'd)

During the term of the selected DCP, Telephone Company-initiated rate changes (increases or decreases) will automatically be applied to the monthly rates for the remaining months of the current DCP term. But in no case will any rate change cause the monthly rate during the DCP term to exceed that in effect at the beginning of the customer's DCP term.

(B) Commitment Level

A customer establishes a DCP term by committing 90 percent of their in-service Circuits (CKTS) by service during the term.

The customer will not receive the DCP rates for in-service levels above the 90 percent commitment level established. For example, a customer with 100 CKTSs in-service and commits to 90 CKTS (i.e. 90 percent) will receive the DCP rates for up to 90 CKTS.

If a customer's actual in-service level falls below the commitment level, the customer will be billed for the commitment level of CKTS at DCP rates. For example, a customer that commits 90 CKTS but has only 70 CKTS in service will be billed the DCP rates for 90 CKTS.

If the Telephone Company introduces new Ethernet Services Services not currently listed in Section 17 ("New Ethernet Services"), the circuit counts of the New Ethernet Services will count towards the Ethernet DCP commitment under the following conditions:

(C)

- New Ethernet Service circuits added at customer locations where no Ethernet Services have existed during the DCP term will count towards the Ethernet DCP commitment.
- New Ethernet Service circuits added at a location where Ethernet Service has existed during the DCP term will only count towards the Ethernet DCP commitment if they result in an increase of total Ethernet circuits at that location and no existing Ethernet circuits are disconnected unless replaced by higher speed Ethernet circuits purchased from the same section of the tariff as the existing circuits at that location.
- New Ethernet Service circuits counted towards an Ethernet DCP commitment may not be counted under any other DCP.

(C)

Material formerly found on this page is now found on Page 178

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Rate Regulations (Cont'd)

7.3.9 Discount Commitment Program (DCP) (Cont'd)

90-Day Review Period

(M)

No adjustments, for being below commitment level (as described in (B) above), in monthly billing for a DCP will be made until 90 days after Company notification to the customer that the commitment level has been exceeded or not been met. This will insure that customers will not be penalized for aberrations in Channel Termination, Network Access Connection or Off-Network Access Connection counts caused by timing differentials in disconnection and installation.

(M)

Customers' bills will not be adjusted for being outside the parameters described in 7.3.9(B), preceding during the 90 day review period. Additionally, customers will continue to be billed the adjustments (following the 90 day review period) for being outside the described parameters until the commitment level is met or increased. A new 90-day review period will be initiated if the customer's actual in-service level subsequently falls outside the described parameters.

(D) Increasing the DCP Commitment Level

Customers may increase their commitment level at any time by notifying the Company in writing. An increase in the commitment level will not change the expiration date of the DCP. When a commitment level is increased, the actual in-service CKT level at the time of the increase will be used to calculate billing adjustments as described in Section 7.3.9(B), preceding.

(E) Decreasing the DCP Commitment Level and Termination Liabilities

Customers may decrease their commitment level only by paying termination liability charges on the number of Channel Terminations, Network Access Connections or Off-Network Access Connections by which the commitment level is decreased. Termination Liabilities will apply to Digital Data, 1.544 High Capacity, MercNET 45 and Shared SONET Service. For example, a customer has a commitment level of 90 CKTS. The customer then decreases this commitment level to 70 CKTS. The customer must pay termination liabilities on 20 CKTS.

The Termination Liability for DCP is calculated to be the dollar difference between the current DCP rate for the DCP term that could have been completed during the time the service was actually in service, or the monthly rate for services in service, or the monthly rate for services in place less than 36 months, and the customer's current DCP rate for each month the service was provided.

Material found on this page was formerly found on Page 177

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Rate Regulations (Cont'd)

7.3.9 Discount Commitment Program (DCP) (Cont'd)

(E) Decreasing the DCP Commitment Level and Termination Liabilities (Cont'd)

For example, a customer subscribing to a 60-month DCP term reduced their CKTS commitment by 20 CKTS during the 37th month. This customer's termination charge would be:

$$20 \text{ CKTS} \times (36 \text{ month DCP rate} - 60 \text{ month DCP rate}) \times 37 \text{ months} = \text{Termination Charge}$$

A decrease in the commitment level will not change the expiration date of the DCP.

(F) Upgrading a DCP Service

When a customer upgrades a Digital Data service being billed DCP rates to a 1.544 High Capacity, the Digital Data service DCP commitment level will be reduced at the customer's request (up to a maximum of 24) and no termination liabilities will apply. If the customer has a DCP for a 1.544 High Capacity, the 1.544 High Capacity DCP commitment level will be increased if the customer requests that it be increased. When a customer upgrades a 1.544 High Capacity service being billed DCP rates to a MercNET 45 service the customer's 1.544 High Capacity DCP commitment level will be reduced at the customer's request (up to a maximum of 28) and no termination liabilities will apply.

When a customer upgrades from a 10 Mbps Ethernet Service to a 50 Mbps Ethernet Service, the 10 Mbps Ethernet DCP commitment level will be decreased by 1 circuit and the 50 Mbps Ethernet DCP commitment level will be increased by 1 circuit and no termination liabilities will apply.

When a customer upgrades from a 1 Gbps Wavelength Service to a 10 Gbps Wavelength Service, the 100 Mbps Wavelength DCP commitment level will be decreased by 1 circuit and the 10 Gbps Wavelength DCP commitment level will be increased by 1 circuit and no termination liabilities will apply.

(G) Conversion to an Optional Payment Plan (OPP)

Customers may convert services from a DCP term to an OPP as described in 7.3.7, preceding. No termination liabilities will apply to services converted to an OPP term of the same or longer length than the DCP term. Additionally, the customer's DCP commitment level will be reduced by the number of CKTS associated with the service, converted to an OPP term.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate and Charges

7.4.1 Digital Data Service*

Recurring Charges
Optional Payment Plan and
Discount Commitment Program

	<u>Monthly</u> <u>Rates</u>	<u>36 Mo.</u>	<u>60 Mo.</u>
(A) Channel Termination			
- Per point of termination			
USOC For All Speeds - T6ECS			
- 2.4 kbps	\$ 90.00	\$ 60.09	\$ 56.93
- 4.8 kbps	90.00	60.09	56.93
- 9.6 kbps	90.00	60.09	56.93
- 19.2 kbps	110.05	76.48	72.45
- 56.0 kbps	110.05	76.48	72.45
- 64.0 kbps	110.05	76.48	72.45
- All Digital Data CT's Nonrecurring Charge, each - None			

(B) Channel Mileage

	<u>USOC</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>
(1) 2.4 kbps			
		Monthly, Optional Payment Plan and Discount Commitment Program	
		<u>Mileage Bands</u>	
	0	1L5XX	None
	Over 0 to 4	1L5XX	\$ 85.00
I	Over 4 to 8	1L5XX	85.00
	Over 8 to 25	1L5XX	85.00
	Over 25	1L5XX	85.00

* One Year Minimum on all features and functions

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 Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.4 Rate and Charges (Cont'd)
- 7.4.1 Digital Data Service (Cont'd)*

(B) Channel Mileage (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>
(2) 4.8 kbps			
Monthly, Optional Payment Plan and Discount Commitment Program			
<u>Mileage Bands</u>			
0	1L5XX	None	None
Over 0 to 4	1L5XX	\$ 85.00	\$ 5.00(I)
Over 4 to 8	1L5XX	85.00	5.00(I)
Over 8 to 25	1L5XX	85.00	5.00(I)
Over 25	1L5XX	85.00	5.00(I)
(3) 9.6 kbps			
Monthly, Optional Payment Plan and Discount Commitment Program			
<u>Mileage Bands</u>			
0	1L5XX	None	None
Over 0 to 4	1L5XX	\$ 85.00	\$ 5.00(I)
Over 4 to 8	1L5XX	85.00	5.00(I)
Over 8 to 25	1L5XX	85.00	5.00(I)
Over 25	1L5XX	85.00	5.00(I)
(4) 19.2 kbps			
Monthly, Optional Payment Plan and Discount Commitment Program			
<u>Mileage Bands</u>			
0	1L5XX	None	None
Over 0 to 4	1L5XX	\$85.00	\$ 5.00(I)
Over 4 to 8	1L5XX	85.00	5.00(I)
Over 8 to 25	1L5XX	85.00	5.00(I)
Over 25	1L5XX	85.00	5.00(I)

* One Year Minimum on all features and functions

* *When service is provided by multiple companies use USOC: CM6 for Fixed-Channel Mileage and USOC: ZL5XX for Per Mile-Channel Mileage for all Mileage Bands.

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 Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate and Charges (Cont'd)**

7.4.1 Digital Data Service (Cont'd)

(B) Channel Mileage (Cont'd)	<u>USOC</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>
(5) 56 kbps			
Monthly, Optional Payment Plan and Discount Commitment Program			
<u>Mileage Bands</u>			
0	1L5XX	None	None
Over 0 to 4	1L5XX	\$ 85.00	\$ 5.00(I)
Over 4 to 8	1L5XX	85.00	5.00(I)
Over 8 to 25	1L5XX	85.00	5.00(I)
Over 25	1L5XX	85.00	5.00(I)

(6) 64 kbps

Monthly, Optional Payment Plan and Discount Commitment Program			
<u>Mileage Bands</u>			
0	1L5XX	None	None
Over 0 to 4	1L5XX	\$ 85.00	\$ 5.00(I)
Over 4 to 8	1L5XX	85.00	5.00(I)
Over 8 to 25	1L5XX	85.00	5.00(I)
Over 25	1L5XX	85.00	5.00(I)

(C) Optional Features and Functions

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(1) Bridging			
- Per port	BCNDA	\$ 6.00	NONE
(3) Secondary Channel Capability, per point of termination	SFS	NONE	NONE

* One Year Minimum on all features and functions

** When service is provided by multiple companies use USOC: CM6 for Fixed-Channel Mileage and USOC: ZL5XX for Per Mile-Channel Mileage for all Mileage Bands.

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 Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate and Charges (Cont'd)

7.4.2 High Capacity Service*

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>					
(A) Channel Termination								
<u>Recurring Charges-Optional Payment Plan and Discount Commitment Program</u>								
	<u>USOC</u>	<u>MONTHLY</u>	<u>12 MOS.</u>	<u>36 MOS.</u>	<u>60 MOS.</u>	<u>60 MOS.</u>		
- 3.0 Mbps <u>(MercNet 1.5)</u>	TZGA1	\$ 290.00	290.00	258.00	244.42			
- 4.5 Mbps <u>(MercNet 1.5)</u>	TZGA1	\$ 435.00	435.00	387.00	366.63			
- 6.0 Mbps <u>(MercNet 1.5)</u>	TZGA1	\$ 580.00	580.00	516.00	488.84			
	<u>USOC</u>	<u>MONTHLY</u>	<u>12 MOS.</u>	<u>24 Mos.</u>	<u>36 MOS.</u>	<u>48 MOS.</u>	<u>60 MOS.</u>	<u>84 MOS.</u>
- 1.544 Mbps <u>(MercNet 1.5)</u>	TZGA1	\$ 145.00	145.00	137.00 (N)	129.00	125.60 (N)	122.21	110.00 (N)
- MercNET 45 <u>1st Chan. Term.</u>	TZGB1	750.00	750.00	725.00 (N)	700.00	677.00 (N)	654.00	600.00 (N)
<u>2nd Chan. Term</u>	TZGC1	750.00	750.00	725.00 (N)	700.00	677.00 (N)	654.00	600.00 (N)
<u>3rd Chan. Term.</u>	TZGD1	750.00	750.00	725.00 (N)	700.00	677.00 (N)	654.00	600.00 (N)
- MercNET 45* <u>12 Pack Arrangement/CT</u>	HZ4P1	725.00	725.00	725.00 (N)	700.00	677.00 (N)	650.43	600.00 (N)

* One Year Minimum on all Features and Functions

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 Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.2 High Capacity Service (Cont'd)*

(B) Channel Mileage	USOC	Monthly Rates							
		Fixed				Per Mile			
(1) 1.544 Mbps (MercNET 1.5)									
Monthly, Optional Payment Plan and Discount Commitment Program <u>Mileage Bands</u>									
		<u>Monthly</u>	<u>12 Mos.</u>	<u>24 Mos.</u>	<u>36 Mos.</u>	<u>48 Mos.</u>	<u>60 Mos.</u>	<u>84 Mos.</u>	
		<u>Fixed</u>							
0	1YBA1	None	None	None	None	None	None	None	None
Over 0 to 4	1YBA1	\$110.00	\$110.00	\$ 97.75	\$ 85.50	\$ 83.25	\$ 81.00	\$ 73.00	\$ 73.00
Over 4 to 8	1YBA1	\$110.00	\$110.00	\$ 97.75	\$ 85.50	\$ 83.25	\$ 81.00	\$ 73.00	\$ 73.00
Over 8 to 25	1YBA1	\$110.00	\$110.00	\$ 97.75	\$ 85.50	\$ 83.25	\$ 81.00	\$ 73.00	\$ 73.00
Over 25 to 40	1YBA1	\$110.00	\$110.00	\$ 97.75	\$ 85.50	\$ 83.25	\$ 81.00	\$ 73.00	\$ 73.00
		<u>Per Mile</u>							
0	1YBA1	None	None	None	None	None	None	None	None
Over 0 to 4	1YBA1	\$ 6.72 (R)	\$ 6.72 (R)	\$ 5.61	\$ 4.58 (R)	\$ 4.47	\$ 4.35 (R)	\$ 3.92	\$ 3.92
Over 4 to 8	1YBA1	\$ 6.72 (R)	\$ 6.72 (R)	\$ 5.61	\$ 4.58 (R)	\$ 4.47	\$ 4.35 (R)	\$ 3.92	\$ 3.92
Over 8 to 25	1YBA1	\$ 6.72 (R)	\$ 6.72 (R)	\$ 5.61	\$ 4.58 (R)	\$ 4.47	\$ 4.35 (R)	\$ 3.92	\$ 3.92
Over 25 to 40	1YBA1	\$ 6.72 (R)	\$ 6.72 (R)	\$ 5.61	\$ 4.58 (R)	\$ 4.47	\$ 4.35 (R)	\$ 3.92	\$ 3.92
		<u>Per Mile</u>							
		<u>Monthly</u>	<u>12 Mos.</u>	<u>24 Mos.</u>	<u>36 Mos.</u>	<u>48 Mos.</u>	<u>60 Mos.</u>	<u>84 Mos.</u>	
Long Haul	ZZYDE	\$ 6.72 (R)	\$ 6.72 (R)	\$ 5.61	\$ 4.58 (R)	\$ 4.47	\$ 4.35 (R)	\$ 3.92	\$ 3.92
Over 40 Miles									

* One Year Minimum on all features and functions

** When service is provided by multiple companies use USOC: CM6 for Fixed-Channel Mileage and USOC: ZL5XX for Per Mile-Channel Mileage for all Mileage Bands.

*** Applies to through connections of 2.4, 4.8, 9.6, 56.0 and 64 kbps.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.2 High Capacity Service (Cont'd)*

		<u>USOC</u>	<u>Monthly Rates</u>				
			<u>Fixed</u>	<u>Per Mile</u>			
(2) 3.0 Mbps (MercNET 3.0) (Cont'd)							
Monthly, Optional Payment Plan and Discount Commitment Program							
<u>Mileage Bands</u>							
			<u>Monthly</u>	<u>12 Mos.</u>	<u>36 Mos.</u>	<u>60 Mos.</u>	
				<u>Fixed</u>			
	0	1YBA1	None	None	None	None	
Over	0 to 4	1YBA1	\$220.00(I)	\$220.00(I)	\$171.00(I)	\$162.00(I)	
Over	4 to 8	1YBA1	\$220.00(I)	\$220.00(I)	\$171.00(I)	\$162.00(I)	
Over	8 to 25	1YBA1	\$220.00(I)	\$220.00(I)	\$171.00(I)	\$162.00(I)	
Over	25 to 40	1YBA1	\$220.00(I)	\$220.00(I)	\$171.00(I)	\$162.00(I)	
				<u>Per Mile</u>			
	0	1YBA1	None	None	None		
Over	0 to 4	1YBA1	\$ 10.20	\$ 10.20	\$ 9.70	\$ 9.18	
Over	4 to 8	1YBA1	\$ 10.20	\$ 10.20	\$ 9.70	\$ 9.18	
Over	8 to 25	1YBA1	\$ 10.20	\$ 10.20	\$ 9.70	\$ 9.18	
Over	25 to 40	1YBA1	\$ 10.20	\$ 10.20	\$ 9.70	\$ 9.18	
			<u>Monthly</u>	<u>Per Mile</u>	<u>12 Mos.</u>	<u>36-Mos</u>	<u>60-Mos</u>
	Long Haul Over 40 Miles	ZZYDE	\$10.20	\$ 10.20	\$ 9.70	\$ 9.18	

* One Year Minimum on all features and functions

** When service is provided by multiple companies use USOC: CM6 for Fixed-Channel Mileage and USOC: ZL5XX for Per Mile-Channel Mileage for all Mileage Bands.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.2 High Capacity Service (Cont'd)*

		<u>USOC</u>	<u>Monthly Rates</u>			
			<u>Fixed</u>	<u>Per Mile</u>		
(B) Channel Mileage (Cont'd)						
(3) 4.5 Mbps (MercNET 4.5)						
Monthly, Optional Payment Plan and Discount Commitment Program <u>Mileage Bands</u>						
			<u>Monthly</u>	<u>12 Mos.</u>	<u>36 Mos.</u>	<u>60 Mos.</u>
				<u>Fixed</u>		
	0	1YBA1	None	None	None	
Over	0 to 4	1YBA1	\$330.00(I)	\$330.00(I)	\$256.50(I)	\$243.00(I)
Over	4 to 8	1YBA1	\$330.00(I)	\$330.00(I)	\$256.50(I)	\$243.00(I)
Over	8 to 25	1YBA1	\$330.00(I)	\$330.00(I)	\$256.50(I)	\$243.00(I)
Over	25 to 40	1YBA1	\$330.00(I)	\$330.00(I)	\$256.50(I)	\$243.00(I)
				<u>Per Mile</u>		
	0	1YBA1	None	None	None	
Over	0 to 4	1YBA1	\$ 15.30	\$ 15.30	\$ 14.55	\$ 13.77
Over	4 to 8	1YBA1	\$ 15.30	\$ 15.30	\$ 14.55	\$ 13.77
Over	8 to 25	1YBA1	\$ 15.30	\$ 15.30	\$ 14.55	\$ 13.77
Over	25 to 40	1YBA1	\$ 15.30	\$ 15.30	\$ 14.55	\$ 13.77
			<u>Monthly</u>	<u>Per Mile</u>		
				<u>12 Mos.</u>	<u>36-Mos</u>	<u>60-Mos</u>
	Long Haul	ZZYDE	\$ 15.30	\$ 15.30	\$ 14.55	\$ 13.77
	Over 40 Miles					

* One Year Minimum on all features and functions

** When service is provided by multiple companies use USOC: CM6 for Fixed-Channel Mileage and USOC: ZL5XX for Per Mile-Channel Mileage for all Mileage Bands.

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 Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.2 High Capacity Service (Cont'd)*

		<u>USOC</u>	<u>Monthly Rates</u>			
			<u>Fixed</u>	<u>Per Mile</u>		
(B) Channel Mileage (Cont'd)						
(4) 6.0 Mbps (MercNET 6.0)						
Monthly, Optional Payment Plan and Discount Commitment Program						
<u>Mileage Bands</u>						
			<u>Monthly</u>	<u>12 Mos. Fixed</u>	<u>36 Mos.</u>	<u>60 Mos.</u>
	0	1YBA1	None	None	None	None
	Over 0 to 4	1YBA1	\$ 440.00(I)	\$440.00(I)	\$342.00(I)	\$324.00(I)
Over	4 to 8	1YBA1	\$ 440.00(I)	\$440.00(I)	\$342.00(I)	\$324.00(I)
	Over 8 to 25	1YBA1	\$ 440.00(I)	\$440.00(I)	\$342.00(I)	\$324.00(I)
	Over 25 to 40	1YBA1	\$ 440.00(I)	\$440.00(I)	\$342.00(I)	\$324.00(I)
				<u>Per Mile</u>		
	0	1YBA1	None	None	None	None
	Over 0 to 4	1YBA1	\$ 20.40	\$ 20.40	\$ 19.40	\$ 18.36
	Over 4 to 8	1YBA1	\$ 20.40	\$ 20.40	\$ 19.40	\$ 18.36
	Over 8 to 25	1YBA1	\$ 20.40	\$ 20.40	\$ 19.40	\$ 18.36
	Over 25 to 40	1YBA1	\$ 20.40	\$ 20.40	\$ 19.40	\$ 18.36
				<u>Per Mile</u>		
			<u>Monthly</u>	<u>12 Mos.</u>	<u>36-Mos</u>	<u>60-Mos</u>
	Long Haul Over 40 Miles	ZZYDE	\$ 20.40	\$ 20.40	\$ 19.40	\$ 18.36

* One Year Minimum on all features and functions

** When service is provided by multiple companies use USOC: CM6 for Fixed-Channel Mileage and USOC: ZL5XX for Per Mile-Channel Mileage for all Mileage Bands.

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 Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rates and Charges (Cont'd)7.4.2 High Capacity Service (Cont'd)*

	<u>USOC</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>
(B) Channel Mileage (Cont'd)			
(2) 1.544 Mbps (MercNET 1.5) (Cont'd)			
<u>Monthly, Optional Payment Plan and Discount Commitment Program</u>			
(3) 3.152 Mbps			
<u>Mileage Bands</u>			
0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25	1L0++	ICB	ICB
(4) 6.312 Mbps			
<u>Mileage Bands</u>			
0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25	1L0++	ICB	ICB

* One Year Minimum on all features and functions

** When service is provided by multiple companies use USOC: CM6 for Fixed-Channel Mileage and USOC: ZLSXX for Per Mile-Channel Mileage for all Mileage Bands.

Issued: December 2, 2004

Effective: January 1, 2005

In Accordance with Case No. 04-1787-TP-ACE,
issued by the Public Utilities Commission of Ohio

D. Scott Ringo, Assistant Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.2 High Capacity Service (Cont'd)*

				USOC**		<u>Monthly Rates</u>				
						<u>Fixed</u>	<u>Per Mile</u>			
(B) Channel Mileage (Cont'd)										
(5) MercNET 45 (Cont'd)										
		Monthly, Optional Payment Plan and Discount Commitment Program								
		<u>Mileage Bands</u>								
		<u>Monthly</u>	<u>12 Mos.</u>	<u>24 Mos.</u>	<u>36 Mos.</u>	<u>48 Mos.</u>	<u>60 Mos.</u>	<u>84 Mos.</u>		
						<u>Fixed</u>				
	0 1YBB1	None	None	None	None	None	None	None	None	None
Over	0 to 4 1YBB1	\$490.00	\$490.00	\$390.00 (N)	\$290.00	\$265.00 (N)	\$240.00	\$216.00 (N)	\$216.00 (N)	\$216.00 (N)
Over	4 to 8 1YBB1	\$490.00	\$490.00	\$390.00 (N)	\$290.00	\$265.00 (N)	\$240.00	\$216.00 (N)	\$216.00 (N)	\$216.00 (N)
Over	8 to 25 1YBB1	\$490.00	\$490.00	\$390.00 (N)	\$290.00	\$265.00 (N)	\$240.00	\$216.00 (N)	\$216.00 (N)	\$216.00 (N)
Over	25 to 40 1YBA1	\$490.00	\$490.00	\$390.00 (N)	\$290.00	\$265.00 (N)	\$240.00	\$216.00 (N)	\$216.00 (N)	\$216.00 (N)
						<u>Per Mile</u>				
	0 1YBB1	None	None	None	None	None	None	None	None	None
Over	0 to 4 1YBB1	\$ 9.99	\$ 9.99	\$ 9.00 (N)	\$ 8.00	\$ 7.00 (N)	\$ 6.00	\$ 5.50 (N)	\$ 5.50 (N)	\$ 5.50 (N)
Over	4 to 8 1YBB1	\$ 9.99	\$ 9.99	\$ 9.00 (N)	\$ 8.00	\$ 7.00 (N)	\$ 6.00	\$ 5.50 (N)	\$ 5.50 (N)	\$ 5.50 (N)
Over	8 to 25 1YBB1	\$ 9.99	\$ 9.99	\$ 9.00 (N)	\$ 8.00	\$ 7.00 (N)	\$ 6.00	\$ 5.50 (N)	\$ 5.50 (N)	\$ 5.50 (N)
Over	25 to 40 1YBB1	\$ 9.99	\$ 9.99	\$ 9.00 (N)	\$ 8.00	\$ 7.00 (N)	\$ 6.00	\$ 5.50 (N)	\$ 5.50 (N)	\$ 5.50 (N)
		<u>Monthly</u>	<u>12 Mos.</u>	<u>24 Mos.</u>	<u>36 Mos.</u>	<u>48 Mos.</u>	<u>60 Mos.</u>	<u>84 Mos.</u>		
Long Haul	ZZYDF	\$ 25.00	\$ 25.00	\$ 22.50 (N)	\$ 20.00	\$ 19.00 (N)	\$ 18.00	\$ 17.10 (N)		
Over	40 Miles									

(6) 274.176 Mbps

Mileage Bands

0	1L0++	None	None
Over 0 to 4	1L0++	ICB	ICB
Over 4 to 8	1L0++	ICB	ICB
Over 8 to 25	1L0++	ICB	ICB
Over 25	1L0++	ICB	ICB

* One Year Minimum on all features and functions

** When service is provided by multiple companies use USOC: CM6 for Fixed-Channel Mileage and USOC: ZL5XX for Per Mile-Channel Mileage for all Mileage Bands.

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Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.2 High Capacity Service (Cont'd)*

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(C) Optional Features and Functions			
(1) Multiplexing			
DS4 to DS1			
- Per arrangement	MXA++	ICB	None
DS3 to DS1			
- Per arrangement	QM3X1	\$ 607.24(R)	None
DS2 to DS1			
- Per arrangement	MXD++	ICB	None
DS1C to DS1			
- Per arrangement	MXH++	ICB	None
DS1 to Voice*			
- Per arrangement	QMVX1	\$ 350.00	None
DS1 to Digital Data			
- Per arrangement	QMKX1	\$ 350.00	None
DS1 to DSO*			
- Per arrangement	QMU	\$300.00	None
DSO to Subrates*			
- Per arrangement			
- Up to 20 2.4 kbps services	QSU24	\$ 61.49	None
- Up to 10 4.8 kbps services	QSU48	36.10	None
- Up to 5 9.6 kbps services	QSU96	23.40	None

* One Year Minimum on all features and functions

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 Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.2 High Capacity Service (Cont'd)*

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	
(C) Optional Features and Functions				
(2) Alternate Central Office Channel				
- Per 1.544 Mbps High Capacity	AVXA1	\$ 71.30	None	
- Per 45 Mbps High Capacity	AVXB1	200.00	None	
(3) Service To Service Through Connect Arrangement				
- Per 1.544 Mbps High Capacity or DSO Service	STM1X	None	None	
(4) Clear Channel Capability				
- Per High Capacity channel termination	CLR	None	None	
(5) Interoffice Access Diversity (EAD)				
- Per 1.544 Mbps or 45 Mbps High Capacity	DZQX1	12.00	None	
(6) Cross-Connection to ILEC Facilities				
- DS1	CX1CX	10.00	None	
- DS3	CX3CX	12.00	None	
(7) Digital Facility Cross-Connection				(N)
Per DS1	DXZ01	10.57	None	
Per DS3	DXZ03	60.78	None	(N)

* One Year Minimum on all features and functions

Issued: September 21 2012

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In Accordance with Case No. 12-2536-TP-ATA,
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 Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

OC-3 Service, OC-12 Service, OC-48 and OC-192 Service Point-to-Point Services

(A) OC-3 Service*

Recurring Charges
Optional Payment Plan

(1) Channel Termination - Per Point of Termination
 Terminating Bit Rate 155.52 Mbps (DS1, DS3 Drops)

USOC	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.
TMECS	\$1,430.00	\$1,430.00 (N)	\$1,365.00 (N)	\$1,300.00	\$1,240.00 (N)	\$1,180.00	\$1,065.00 (N)

	USOC	Monthly	36 Mo.	60 Mo.
(1A) Channel Termination** - Per Point of Termination Terminating Bit Rate 155.52 Mbps (OC-3/STM-1 Drops)	TMECX	2,900.00	2,700.00	2,500.00

USOC	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.
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(2) Channel Mileage

- Fixed	1L5XX	\$400.00	\$400.00 (N)	\$390.00 (N)	\$380.00	\$370.00 (N)	\$360.00	\$340.00 (N)
- Per mile at 155.52 Mbps	1L5XX	150.00	150.00 (N)	138.00 (N)	125.00	113.00 (N)	100.00	90.00 (N)
- Long Haul Per Mile 40+ at 155.52 Mbps	ZZYDG	78.00	78.00	76.05 (N)	74.10	72.15 (N)	70.20	66.69 (N)

(3) Optional Features
 and Functions

(a) OC-3/STM-Add/Drop
 Multiplexing
 Per Arrangement

MXRCX	1,050.00	1,050.00 (N)	1,023.00 (N)	995.00	988.00 (N)	980.00	960.00 (N)
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(b) Add/Drop Function

Per GigE	MXJJX	1,100.00	1,100.00 (N)	1,050.00 (N)	1,000.00	950.00 (N)	900.00	830.00 (N)
Per 100mg	MXJKX	250.00	250.00 (N)	238.00 (N)	225.00	213.00 (N)	200.00	180.00 (N)
Per 10mg	MXJLX	80.00	80.00 (N)	78.00 (N)	75.00	73.00 (N)	70.00	65.00 (N)
Per OC-3/STM-1	MXJCX	200.00	200.00 (N)	175.00 (N)	150.00	143.00 (N)	135.00	125.00 (N)
Per DS3	MXJBX	80.00	80.00 (N)	78.00 (N)	75.00	73.00 (N)	70.00	65.00 (N)
Per DS1	MXJAX	50.00	50.00 (N)	48.00 (N)	45.00	43.00 (N)	40.00	45.00 (N)

* One Year Minimum on all features and functions

** Grandfathered beginning March 2, 2005. Current customers may maintain their service rate structure until their contract expires. Customers may convert to new rate structure at no charge during their contract term.

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 Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rates and Charges (Cont'd)7.4.3 OC-3 Service, OC-12 Service, OC-48, and OC-192 Service
- Point-to-Point Services (Cont'd)(A) OC-3 Service (Cont'd)*

	USOC	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.
(c) ISP Connection	LVP	100.00	100.00 (N)	100.00 (N)	100.00	100.00 (N)	100.00	100.00 (N)
(d) Private Virtual Circuit/VLAN	PVCAX	40.00	40.00 (N)	40.00 (N)	40.00	40.00 (N)	40.00	40.00 (N)
(e) OC-3 to DS1 Multiplexing	MLX11	1,800.00						
(f) Cross-Connection of Services OC-3/STM-1 to OC-3/STM-1 Cross-Connect Per Circuit	OCCCX	\$100.00	100.00 (N)	100.00 (N)	100.00	100.00 (N)	100.00	100.00 (N)
(g) 1+1 Protection with Route Survivability								
- Per Quarter Route Mile	S2DXY	20.00	20.00 (N)	20.00 (N)	20.00	20.00 (N)	20.00	20.00 (N)
(e) 1+1 Protection with Central Office Survivability								
- Per Quarter Route Mile	S2VXY	20.00	20.00 (N)	20.00 (N)	20.00	20.00 (N)	20.00	20.00 (N)
- Channel Mileage Fixed and Per Mile					Apply Rates and Charges As 7.4.3 (A) Preceding			

* One Year Minimum on all features and functions

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Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
 - 7.4 Rates and Charges (Cont'd)
 - 7.4.3 OC-3 Service, OC-12 Service, OC-48, and OC-192 Service
 - Point-to-Point Services (Cont'd)
 - (B) OC-12 Service*

Recurring Charges
Optional Payment Plan

- (1) Channel Termination - Per Point of Termination
 Terminating Bit Rate 622.08 Mbps (DS1, DS3, OC-3/STM-1 Drops)

<u>USOC</u>	<u>Monthly</u>	<u>12 Mo.</u>	<u>24 Mo.</u>	<u>36 Mo.</u>	<u>48 Mo.</u>	<u>60 Mo.</u>	<u>84 Mo.</u>
TMECS	\$2,900.00	\$2,900.00 (N)	\$2,750.00 (N)	\$2,600.00	\$2,523.00 (N)	\$2,445.00	\$2,250.00 (N)

	<u>USOC</u>	<u>Monthly</u>	<u>12 Mo.</u>	<u>24 Mo.</u>	<u>36 Mos.</u>	<u>60 Mos.</u>	<u>84 Mo.</u>	
1A) Channel Termination**								
- Per Point of Termination			TMECX	4,500.00	4,250.00	4,000.00		
Terminating Bit Rate 622.08 Mbps (OC-12 Drops)								
	<u>USOC</u>	<u>Monthly</u>	<u>12 Mo.</u>	<u>24 Mo.</u>	<u>36 Mo.</u>	<u>48 Mo.</u>	<u>60 Mo.</u>	<u>84 Mo.</u>
(2) Channel Mileage								
- Fixed	1L5XX	\$600.00	\$600.00 (N)	\$575.00 (N)	\$550.00	\$525.00 (N)	\$500.00	\$475.00 (N)
- Per mile at 622.08 Mbps	1L5XX	150.00	150.00 (N)	138.00 (N)	125.00	113.00 (N)	100.00	90.00 (N)

- (3) Optional Features and Functions

	<u>USOC</u>	<u>Monthly</u>	<u>12 Mo.</u>	<u>24 Mo.</u>	<u>36 Mo.</u>	<u>48 Mo.</u>	<u>60 Mo.</u>	<u>84 Mo.</u>
(a) OC-12/STM-Add/Drop Multiplexing Per Arrangement								
	MXRDX	2,460.00	2,460.00 (N)	2,275.00 (N)	2,092.00	1,906.00 (N)	1,720.00	1,590.00 (N)
(b) Add/Drop Function								
Per GigE	MXJJX	1,100.00	1,100.00 (N)	1,050.00 (N)	1,000.00	950.00 (N)	900.00	830.00 (N)
Per 100mg	MXJKX	250.00	250.00 (N)	238.00 (N)	225.00	213.00 (N)	200.00	185.00 (N)
Per 10mg	MXJLX	80.00	80.00 (N)	78.00 (N)	75.00	73.00 (N)	70.00	65.00 (N)
Per OC-12/STM-4	MXJEX	500.00	500.00 (N)	475.00 (N)	450.00	428.00 (N)	405.00	375.00 (N)
Per OC-3/STM-1	MXJCX	200.00	200.00 (N)	175.00 (N)	150.00	143.00 (N)	135.00	125.00 (N)
Per DS3	MXJBX	80.00	80.00 (N)	78.00 (N)	75.00	73.00 (N)	70.00	65.00 (N)
- Long Haul Per Mile								
40+ Miles at 622.08 Mbps	ZZYDH	138.00	138.00 (N)	134.55 (N)	131.10	127.65 (N)	124.20	117.99 (N)

* One Year Minimum on all features and functions

** Grandfathered beginning March 2, 2005. Current customers may maintain their service rate structure until their contract expires. Customers may convert to new rate structure at no charge during their contract term.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.3 OC-3 Service, OC-12 Service, OC-48, and OC-192 Service
- Point-to-Point Services (Cont'd)

(B) OC-12 Service (Cont'd)*

(3) Optional Features and Functions(Cont'd)

(c) ISP Connection	LVP	100.00	100.00 (N)	100.00 (N)	100.00	100.00 (N)	100.00	100.00 (N)
(d) Private Virtual Circuit/VLAN	PVCAX	40.00	40.00 (N)	40.00 (N)	40.00	40.00 (N)	40.00	40.00 (N)
(e) Cross-Connection of Services OC-12/STM-4 to OC-12/STM-4 Cross-Connect Per Circuit	OCCDX	\$100.00	100.00 (N)	100.00 (N)	100.00	100.00 (N)	100.00	100.00 (N)
(f) 1+1 Protection with Route Survivability								
- Per Quarter Route Mile	S2DXY	20.00	20.00 (N)	20.00 (N)	20.00	20.00 (N)	20.00	20.00 (N)
(g) 1+1 Protection with Central Office Survivability								
- Per Quarter Route Mile	S2VXY	20.00	20.00 (N)	20.00 (N)	20.00	20.00 (N)	20.00	20.00 (N)
- Channel Mileage Fixed and Per Mile					Apply Rates and Charges As 7.5.12B Preceding			

(4) Optical to Electrical
DS1 Add/Drop Capability

Per OC-3/STM-1 to
DS1 Add/Drop

	<u>USOC</u>	<u>Monthly</u>	<u>12 Mo.</u>	<u>24 Mo.</u>	<u>36 Mo.</u>	<u>48 Mo.</u>	<u>60 Mo.</u>	<u>84 Mo.</u>
MXJDX	1,200.00	1,200.00 (N)	1,175.00 (N)	1,150.00	1,125.00 (N)	1,100.00	1,010.00 (N)	

DS-1 Port at
OC-12/STM-4 Node

MXJAX	50.00	50.00 (N)	48.00 (N)	45.00	43.00 (N)	40.00	35.00 (N)	
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* One Year Minimum on all features and functions

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 Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.3 OC-3 Service, OC-12 Service, OC-48, and OC-192 Service

- Point-to-Point Services (Cont'd)

(C) OC-48 Service*

Recurring Charges
Optional Payment Plan

	<u>USOC</u>	<u>Monthly</u>	<u>36 MOS.</u>	<u>60 Mos.</u>				
(1) Channel Termination - Per Point of Termination Terminating Bit Rate 2488.32 Mbps	TMECS**	\$ 6,000.00	5,000.00	4,000.00				
	<u>USOC</u>	<u>Monthly</u>	<u>12 Mo.</u>	<u>24 Mo.</u>	<u>36 Mo.</u>	<u>48 Mo.</u>	<u>60 Mo.</u>	<u>84 Mo.</u>
	TMECZ	\$6,500.00	\$6,500.00(N)	\$6,000.00(N)	\$5,500.00	\$5,000.00(N)	\$4,500.00	\$4,150.00(N)
	<u>USOC</u>	<u>Monthly</u>	<u>12 Mo.</u>	<u>24 Mo.</u>	<u>36 Mo.</u>	<u>48 Mo.</u>	<u>60 Mo.</u>	<u>84 Mo.</u>
(2) Channel Mileage								
- Fixed								
1L5XX	\$1,200.00	\$1,200.00(N)	\$1,150.00(N)	\$1,100.00(R)	\$1,050.00(N)	\$1,000.00	\$920.00(N)	
- Per mile at 2488.32 Mbps								
1L5XX	150.00	150.00(N)	138.00(N)	125.00	113.00(N)	100.00	90.00(N)	
- Long Haul Per Mile 40+ Miles at 2488.32 Mbps								
ZZYDJ	255.10	255.10(N)	248.73(N)	242.35	235.97(N)	229.59	218.11(N)	
(3) Optional Features and Functions								
(a) OC-48 Add/Drop Multiplexing								
- Per Arrangement (not to exceed 12 DS3s or equivalent)	<u>USOC</u>	<u>Monthly</u>	<u>36 MOS.</u>	<u>60 MOS.</u>				
	MXRFX**	800.00	700.00	600.00				
	<u>USOC</u>	<u>Monthly</u>	<u>12 Mo.</u>	<u>24 Mo.</u>	<u>36 Mo.</u>	<u>48 Mo.</u>	<u>60 Mo.</u>	<u>84 Mo.</u>
	MXCZX	\$3,900.00	\$3,900.00(N)	\$3,650.00(N)	\$3,400.00	\$3,160.00(N)	\$2,920.00	\$2,700.00(N)
(b) Add/Drop Function	<u>USOC</u>	<u>Monthly</u>	<u>12 Mo.</u>	<u>24 Mo.</u>	<u>36 Mo.</u>	<u>48 Mo.</u>	<u>60 Mo.</u>	<u>84 Mo.</u>
Per GigE	MXJJX	1,100.00	1,100.00(N)	1,050.00(N)	1,000.00	950.00(N)	900.00	830.00(N)
Per 100mg	MXJKX	250.00	250.00(N)	238.00(N)	225.00	213.00(N)	200.00	185.00(N)
Per 10mg	MXJLX	80.00	80.00(N)	78.00(N)	75.00	73.00(N)	70.00	65.00(N)
Per OC-48/STM16	MXJfX	1,000.00	1,000.00(N)	975.00(N)	950.00	925.00(N)	900.00	830.00(N)
Per OC-12/STM-4	MXJEX	500.00	500.00(N)	475.00(N)	450.00	428.00(N)	405.00	375.00(N)
Per OC-3/STM-1	MXJCX	200.00	200.00(N)	175.00(N)	150.00	143.00(N)	135.00	125.00(N)
Per DS3	MXJBX	80.00	80.00(N)	78.00(N)	75.00	73.00(N)	70.00	65.00(N)

* One Year Minimum on all features and functions

** Grandfathered beginning July 1, 2004. Current customers may maintain their service rate structure until their contract expires. Customers may convert to new rate structure at no charge during their contract term.

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Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)
 7.4 Rates and Charges (Cont'd)

7.4.3 OC-3 Service, OC-12 Service, OC-48 and OC-192 Service
- Point-to-Point Services (Cont'd)
 (C) OC-48 Service (Cont'd)*

(3) Optional Features and Functions(Cont'd)

	USOC	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.	
(c) ISP Connection	LVP	100.00	100.00(N)	100.00(N)	100.00	100.00(N)	100.00	100.00(N)	
(d) Private Virtual Circuit/VLAN	PVCAX	40.00	40.00(N)	40.00(N)	40.00	40.00(N)	40.00	40.00(N)	
(e) Cross-Connection of Services OC-48/STM-16 to OC-48/STM-16 Cross-Connect									
Per Circuit	OCCFX	\$100.00	100.00(N)	100.00(N)	100.00	100.00(N)	100.00	100.00(N)	
(f) 1+1 Protection with Route Survivability									
- Per Quarter Route Mile	S2DXY	20.00	20.00(N)	20.00(N)	20.00	20.00(N)	20.00	20.00(N)	
(e) 1+1 Protection with Central Office Survivability									
- Per Quarter Route Mile	S2VXY	20.00	20.00(N)	20.00(N)	20.00	20.00(N)	20.00	20.00(N)	
- Channel Mileage Fixed and Per Mile					Apply Rates and Charges As 7.4.3.2 Preceding				
(f) Point-to-Point OC-48/STM-16 Regenerator									
- Each (as required)									
	USOC	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.	
	RGY4B	2,900.00	2,900.00(N)	2,900.00(N)	2,900.00	2,900.00(N)	2,900.00	2,900.00(N)	
(4) Optical to Electrical DS1 Add/Drop Capability									
Per OC-3/STM-1 to DS1 Add/Drop									
	MXJDX	1,200.00	1,200.00(N)	1,175.00(N)	1,150.00	1,125.00(N)	1,100.00	1,010.00(N)	
		USOC	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.
DS-1 Port at OC-12/STM-4 Node	MXJAX	50.00	50.00(N)	48.00(N)	45.00	43.00(N)	40.00	35.00(N)	

* One Year Minimum on all features and functions

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.4.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service
- Point-to-Point Services (Cont'd)

(C) OC-192 Service

Recurring Charges
Optional Payment Plan

(1) Channel Termination - Per Point of Termination
 Terminating Bit Rate 9953.28 Mbps

USOC	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.
TMECS	\$13,000.00	\$13,000.00(N)	\$12,000.00(N)	\$11,000.00	\$10,000.00(N)	\$9,000.00	8,300.00(N)

(2) Channel Mileage

	USOC	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.
- Fixed	1L5XX	\$2,400.00	\$2,400.00(N)	\$2,300.00(N)	\$2,200.00	\$2,100.00(N)	\$2,000.00	\$1,950.00(N)
- Per mile at								
9953.28.32 Mbps	1L5XX	150.00	150.00(N)	138.00(N)	125.00	113.00(N)	100.00	90.00(N)
- Long Haul Per Mile								
40+ Miles at 9953.28 Mbps	ZZYDJ	500.00	500.00(N)	475.00(N)	450.00	425.00(N)	400.00	380.00(N)

(3) Optional Features
 and Functions

(a) Multiplexing

USOC	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.
MXRGX	\$7,800.00	\$7,800.00(N)	\$7,300.00(N)	\$6,800.00	\$6,320.00(N)	\$5,840.00	\$5,380.00(N)

	USOC	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.
(b) Add/Drop Function								
Per GigE	MXJXJ	1,100.00	1,100.00(N)	1,050.00(N)	1,000.00	950.00(N)	900.00	830.00(N)
Per 100mg	MXJKX	250.00	250.00(N)	238.00(N)	225.00	213.00(N)	200.00	185.00(N)
Per 10mg	MXJLX	80.00	80.00(N)	78.00(N)	75.00	73.00(N)	70.00	65.00(N)
Per OC192/STM64	MXJ9X	2,000.00	2,000.00(N)	1,950.00(N)	1,900.00	1,850.00(N)	1,800.00	1,675.00(N)
Per OC-48/STM16	MXJfX	1,000.00	1,000.00(N)	975.00(N)	950.00	925.00(N)	900.00	830.00(N)
Per OC-12/STM-4	MXJEX	500.00	500.00(N)	475.00(N)	450.00	428.00(N)	405.00	375.00(N)
Per OC-3/STM-1	MXJCX	200.00	200.00(N)	175.00(N)	150.00	143.00(N)	135.00	125.00(N)
Per DS3	MXJBX	80.00	80.00(N)	78.00(N)	75.00	73.00(N)	70.00	65.00(N)

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 Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.4.3 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service - Point-to-Point Services (Cont'd)

(C) OC-192 Service (Cont'd)

(3) Optional Features and Functions (Cont'd)

	USOC	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.
(c) ISP Connection	LVP	100.00	100.00(N)	100.00(N)	100.00	100.00(N)	100.00	100.00(N)
(d) Private Virtual Circuit/VLAN	PVCAX	40.00	40.00(N)	40.00(N)	40.00	40.00(N)	40.00	40.00(N)
(e) 1+1 Protection with Route Survivability								
- Per Quarter								
Route Mile	S2DXY	20.00	20.00(N)	20.00(N)	20.00	20.00(N)	20.00	20.00(N)
(f) 1+1 Protection with Central Office Survivability								
- Per Quarter								
Route Mile	S2VXY	20.00	20.00(N)	20.00(N)	20.00	20.00(N)	20.00	20.00(N)
- Channel Mileage Fixed and Per Mile					Apply Rates and Charges As 7.4.3.2 Preceding			
(g) Point-to-Point OC-48/STM-16 Regenerator								
- Each (as required)								
	USOC	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.
	RGY92	5,800.00	5,800.00(N)	5,800.00(N)	5,800.00	5,800.00(N)	5,800.00	5,800.00(N)
(h) Cross-Connect OC-192/STM-64 - OC-192/STM-64								
	OCCGX	\$100.00	100.00(N)	100.00(N)	100.00	100.00(N)	100.00	100.00(N)
(4) Optical to Electrical DS1 Add/Drop Capability								
Per OC-3/STM-1 to DS1 Add/Drop								
	MXJDX	1,200.00	1,200.00(N)	1,175.00(N)	1,150.00	1,125.00(N)	1,100.00	1,001.00(N)
DS-1 Port at OC-48/STM-16 Node								
	MXJAX	50.00	50.00(N)	48.00(N)	45.00	43.00(N)	40.00	35.00(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.4 OC-3 Service, OC-12 Service, OC-48 Service, and OC-192 Service
- Dedicated Ring*

(A) Node - Per Node Type

	<u>USOC</u>	<u>Monthly</u>	<u>12 Mo.</u>	<u>24 Mo.</u>	<u>36Mo.</u>	<u>48 Mo.</u>	<u>60 Mo.</u>	<u>84 Mo.</u>
Per Node type								
OC-3/STM-1								
Customer Premises								
FP5CX	\$ 1,820.00	\$ 1,820.00 (N)	\$ 1,610.00 (N)	\$ 1,400.00	\$ 1,300.00	\$ 1,200.00	1,100.00	
Central Office								
FC5CX	1,300.00	1,300.00 (N)	1,200.00 (N)	1,000.00	950.00	900.00	830.00	
OC-12/STM-4								
Customer Premises								
FP5DX	2,990.00	2,990.00 (N)	2,645.00 (N)	2,300.00	2,150.00	2,000.00	1,850.00	
Central Office								
FC5DX	2,340.00	2,340.00 (N)	2,070.00 (N)	1,800.00	1,650.00	1,500.00	1,380.00	
OC-48/STM-16								
Customer Premises								
FP5	6,825.00	6,825.00 (N)	6,040.00 (N)	5,250.00	4,875.00	4,500.00	4,150.00	
Central Office								
FC5	5,200.00	5,200.00 (N)	4,600.00 (N)	4,000.00	3,625.00	3,250.00	3,000.00	
OC-192/STM-64								
Customer Premises								
GP5AX	13,650.00	13,650.00 (N)	12,075.00 (N)	10,500.00	9,750.00	9,000.00	8,280.00	
Central Office								
GC5AX	10,400.00	10,400.00 (N)	9,200.00 (N)	8,000.00	7,250.00	6,500.00	5,980.00	

(M)

(M)

(B)

Material formerly found on this page can now be found on Page 196.

* One Year Minimum on all features and functions

(C)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7. Rates and Charges (Cont'd)

7.4.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service
- Dedicated Ring (Cont'd)*

		(C) Ports (cont'd)							
	USOC	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.	(M)
	Per Node								
DS1 at OC-3/STM-1 Node									
	SPRAX	\$ 59.00	\$ 59.00 (N)	\$ 52.00 (N)	\$ 45.00	\$ 43.00	\$ 40.00	\$ 35.00	
DS3 at OC-3/STM-1 Node									
	SPRBX	98.00	98.00 (N)	87.00 (N)	75.00	73.00	70.00	65.00	
OC-3/STM-1 at OC-3/STM-1 Node									
	SPRDY	195.00	195.00 (N)	173.00 (N)	150.00	143.00	135.00	125.00	
10mg at OC-3/STM-1 Node									
	SPRNX	98.00	98.00 (N)	87.00 (N)	75.00	73.00	70.00	65.00	
100mg at OC-3/STM-1 Node									
	SPROX	293.00	293.00 (N)	259.00 (N)	225.00	213.00	200.00	180.00	
GigE at OC-3/STM-1 Node									
	SPRPX	1,300.00	1,300.00 (N)	1,150.00 (N)	1,000.00	950.00	900.00	830.00	
DS3 at OC-12/STM-4 Node									
	SPRCX	98.00	98.00 (N)	87.00 (N)	75.00	73.00	70.00	65.00	
OC-3/STM-1 at OC-12/STM-4 Node									
	SPREX	195.00	195.00 (N)	173.00 (N)	150.00	143.00	135.00	125.00	
DS1 at OC-12/STM-4 Node**									
	SPRGX	59.00	59.00 (N)	52.00 (N)	45.00	43.00	40.00	35.00	
OC-12/STM-4 at OC-12/STM-4 Nd									
	SPRFY	585.00	585.00 (N)	518.00 (N)	450.00	428.00	405.00	375.00	
10mg at OC-12/STM-4 Node									
	SPRRX	98.00	98.00 (N)	87.00 (N)	75.00	73.00	70.00	65.00	
100mg at OC-12/STM-4 Node									
	SPRSX	293.00	293.00 (N)	259.00 (N)	225.00	213.00	200.00	180.00	
GigE at OC-12/STM-4 Node									
	SPRPX	1,300.00	1,300.00 (N)	1,150.00 (N)	1,000.00	950.00	900.00	830.00	
OC-12/STM-4 at OC-48/STM-16 Nd									
	SPRHX	585.00	585.00 (N)	518.00 (N)	450.00	428.00	405.00	375.00	
OC-3/STM-1 at OC-48/STM-16 Nd									
	SPRJX	195.00	195.00 (N)	173.00 (N)	150.00	150.00	135.00	125.00	
DS3 at OC-48/STM-16 Node									
	SPRKX	98.00	98.00 (N)	87.00 (N)	75.00	73.00	70.00	65.00	
DS1 at OC-48/STM-16 Node**									
	SPRLX	59.00	59.00 (N)	52.00 (N)	45.00	43.00	40.00	35.00	
OC-48/STM-16 at OC-48/STM-16									
	SPRMX	1,235.00	1,235.00 (N)	1,092.00 (N)	950.00	925.00	900.00	830.00	
10mg at OC-48/STM-16 Node									
	SPRVX	98.00	98.00 (N)	87.00 (N)	75.00	73.00	70.00	65.00	
100mg at OC-48/STM-16 Node									
	SPRWX	293.00	293.00 (N)	259.00 (N)	225.00	213.00	200.00	180.00	
GigE at OC-48/STM-16 Node									
	SPRPX	1,300.00	1,300.00 (N)	1,150.00 (N)	1,000.00	950.00	900.00	830.00	(M)

* One Year Minimum on all features and functions

(C)

Material found on this Page was formerly found on Page 195.
 Material formerly found on this page can now be found on Page 196.1.

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 Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7. Rates and Charges (Cont'd)

7.4.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service
- Dedicated Ring (Cont'd)*
 (C) Ports (cont'd)

(M)

	USOC Per Node	Monthly	12 Mo.	24 Mo.	36 Mo.	48 Mo.	60 Mo.	84 Mo.
OC-3/STM-1 at OC-192/STM-64 Nd								
S9NEX	195.00	195.00 (N)	173.00 (N)	150.00	143.00	135.00	125.00	
OC-12/STM-4 at OC-192/STM-64								
S9NGX	585.00	585.00 (N)	518.00 (N)	450.00	428.00	405.00	375.00	
OC-48/STM-16 at OC-192/STM-64								
S9NJX	1,235.00	1,235.00 (N)	1,092.00 (N)	950.00	925.00	900.00	830.00	
OC-192/STM-64atOC-192/STM-64								
SPR9X	2,470.00	2,470.00 (N)	2,185.00 (N)	1,900.00	1,850.00	1,800.00	1,660.00	
DS3 at OC-192/STM-64 Node								
SPRXX	98.00	98.00 (N)	87.00 (N)	75.00	73.00	70.00	65.00	
DS1 at OC-192/STM-64 Node								
SPR1X	59.00	59.00 (N)	52.00 (N)	45.00	43.00	40.00	35.00	
10mg at OC-192/STM-64 Node								
SPRVX	98.00	98.00 (N)	87.00 (N)	75.00	73.00	70.00	65.00	
100mg at OC-192/STM-64 Node								
SPRWX	293.00	293.00 (N)	259.00 (N)	225.00	213.00	200.00	180.00	
GigE at OC-192/STM-64 Node								
SPRPX	1,300.00	1,300.00 (N)	1,150.00 (N)	1,000.00	950.00	900.00	830.00	
ISP Connection								
LVP	100.00	100.00 (N)	100.00 (N)	100.00	100.00	100.00	100.00	
Private Virtual Circuit/VLAN								
PVCAX	52.00	52.00 (N)	46.00 (N)	40.00	40.00	40.00	40.00	
(D) Mileage								
Per mile between nodes by ring type								
OC-3/STM-1								
1A5BS	260.00	260.00 (N)	230.00 (N)	150.00	175.00	150.00	140.00	
OC-12/STM-4								
1A5BS	260.00	260.00 (N)	230.00 (N)	200.00	175.00	150.00	140.00	
OC-48/STM-16								
1A5BS	260.00	260.00 (N)	230.00 (N)	200.00	175.00	150.00	140.00	
OC-192/STM-64								
1A5BS	260.00	260.00 (N)	230.00 (N)	200.00	175.00	150.00	140.00	(M)

Material found on this Page was formerly found on Page 196.
 Material formerly found on this page can now be found on Page 196.1.1

* One Year Minimum on all features and functions.

(C)

** Optical to Electrical DS1 add/drop capability as shown in 7.2.4 is needed along with an OC-3 port. (Not available with OC-192 Dedicated Ring Service)

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ACCESS SERVICE

7. Special Access Service (Cont'd)
7. Rates and Charges (Cont'd)

7.4.4 OC-3 Service, OC-12 Service, OC-48 Service and OC-192 Service
- Dedicated Ring (Cont'd)*

	<u>USOC</u>	<u>Monthly</u>	<u>12 Mo.</u>	<u>24Mo.</u>	<u>36 Mo.</u>	<u>48 Mo.</u>	<u>60. Mo.</u>	<u>84 Mo.</u>	
(E) Optical to Electrical									(M)
DS1 Add/Drop Capability									
Per OC-3/STM-1 to DS1 Add/Drop									
MXJDX	1,495.00	1,495.00 (N)	1,323.00 (N)	1,150.00	1,125.00	1,100.00	1,015.00		
(F) Dedicated Ring Regenerator									
OC-3/STM-1 Each (as required)									
RGY	\$1,300.00	1,300.00 (N)	1,200.00 (N)	\$1,000.00	\$ 950.00	\$ 900.00	\$ 830.00		
OC-12/STM-4 Each (as required)									
RGY	2,080.00	2,080.00 (N)	1,840.00 (N)	1,600.00	1,550.00	1,500.00	1,380.00		
OC-48/STM-16 Each (as required)									
RGY	3,640.00	3,640.00 (N)	3,220.00 (N)	2,800.00	2,750.00	2,700.00	2,485.00		
OC-192/STM-64 Each (as required)									
RGY	7,280.00	7,280.00 (N)	6,440.00 (N)	5,600.00	5,500.00	5,400.00	4,970.00		(M)

Material found on this Page was formerly found on Page 196.1

* One Year Minimum on all features and functions.

(C)

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Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.5 Shared SONET Service*

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Recurring Charges</u>	
			<u>Optional Payment Plan</u>	<u>Optional Payment Plan</u>
			<u>36 Mo.</u>	<u>60 Mo.</u>
(A) Network Access Connection (NAC)				
- Per DS1 Customer Premises Termination	NYA1X	\$ 157.00	\$ 140.00	\$122.00
- Per DS3 Customer Premises Termination	NYA3X	1,195.00	995.00	925.00
(B) Off-Network Access Connection (ONAC)				
- Per DS1 Central Office Connection	NY01X	50.00	40.00	30.00
- Per DS3 Central Office Connection	NY03X	150.00	125.00	105.00
- Per OC-3 Central Office Connection	NY0AX	1,400.00	1,200.00	1000.00
- Per OC-12 Central Office Connection	NY0BX	4,500.00	4,300.00	4,100.00

* One Year Minimum on all features and functions

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D. Scott Ringo, Assistant Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.5 Shared SONET Service (Cont'd)*

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Recurring Charges</u> <u>Optional Payment Plan</u>	
			<u>36 Mo.</u>	<u>60 Mo.</u>
(C) DS3 Payload Multiplexing Function				
- Per DS3/STS-1 to/from DS1/VT 1.5 on the network	MPEMX	\$300.00	\$275.00	\$250.00
			<u>USOC</u>	<u>Monthly Rates</u>
(D) Service Area Transport				
- Per Band on the Network DS1/VT1.5 Point to Point				
- up to 3 miles			1Y6AA	\$ 40.00
- greater than 3 miles up to 10 miles			1Y6AB	110.00
- greater than 10 miles			1Y6AC	150.00
- Per Band on the Network DS3/STS-1 Point to Point				
- up to 3 miles			1Y6BA	\$ 560.00
- greater than 3 miles up to 10 miles			1Y6BB	1,540.00
- greater than 10 miles			1Y6BC	2,100.00
- Per Band on the Network DS3, OC-3 or OC-12 channelized on a per DS1/VT1.5 Basis				
- up to 3 miles			1Y6EA	\$ 20.00
- greater than 3 miles up to 10 Miles			1Y6EB	55.00
- greater than 10 Miles			1Y6EC	75.00

* One Year Minimum on all features and functions

Issued: December 2, 2004

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In Accordance with Case No. 04-1787-TP-ACE,
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D. Scott Ringo, Assistant Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.6 Voice Grade Service*

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(A) Channel Termination			
(1) Voice Grade			
- Per Point of Termination			
- Two-Wire	T6E2X	\$40.00	None
- Four-Wire	T6E4X	60.00	None
(2) WATS Access Line (WAL)			
- Per Point of Termination			
- Two-Wire	X2W	See T6E2X	
- Four-Wire	X4W	See T6E4X	

(B) Channel Mileage

<u>Mileage Bands</u>	<u>USOC**</u>	<u>Monthly Rates</u>	
		<u>Fixed</u>	<u>Per Mile</u>
0	1L5XX	None	None
Over 0 to 4	1L5XX	\$ 58.00(I)	\$ 2.20(I)
Over 4 to 8	1L5XX	58.00(I)	2.20(I)
Over 8 to 25	1L5XX	58.00(I)	2.20(I)
Over 25	1L5XX	58.00(I)	2.20(I)

* One Year Minimum on all features and functions

** When service is provided by multiple companies use USOC: CM6 for Fixed-Channel Mileage and USOC: ZL5XX for Per Mile-Channel Mileage for all Mileage Bands.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.6 Voice Grade Service*

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(C) Optional Features and Functions			
(1) Bridging			
(a) <u>Voice Bridging</u>			
Two-Wire/Four-Wire			
- Per port			
- Two-Wire	BCNV2	\$ 1.41	None
- Four-Wire	BCNV4	2.51	None
(b) <u>Data Bridging</u>			
Two-Wire/Four-Wire			
- Per port			
- Two-Wire	BCND2	4.70	None
- Four-Wire	BCND4	2.46(I)	None
(c) <u>Telephoto Bridging</u>			
Two-Wire/Four-Wire			
- Per port			
- Two-Wire	BCNF2	.48	None
- Four-Wire	BCNF4	.95	None
(2) Conditioning			
- Per Point of Termination			
C - Type	X1CPT	\$17.35	None
Sealing Current	1HBPT	None	None

* One Year Minimum on all features and functions

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D. Scott Ringo, Assistant Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.6 Voice Grade Service (Cont'd)*

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(C) Optional Features and Functions (Cont'd)			
(3) Improved Termination - Per point of termination - Four-Wire	1RL4W	\$ 7.84	None
(4) Improved Return Loss - Per point of termination - Two-Wire	1RL2W	4.17	None
(5) Customer Specified Receive Level - Per two-wire point of termination	RLS	None	None
(6) Data Capability - Per point of termination	XDCPT	.74	None
(7) Telephoto Capability - Per point of termination	XTCPT	1.61	None

* One Year Minimum on all features and functions

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D. Scott Ringo, Assistant Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rates and Charges (Cont'd)

7.4.6 Voice Grade Service (Cont'd)*

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(C) Optional Features and Functions (Cont'd)			
(8) Signaling Capability			
- Per point of termination	XSS++	\$9.00(I)	None
(9) - In lieu of ++, substitute appropriate two digit code from following list to specify type of signaling.			
AB			
AC			
CT			
DX			
DY			
EA			
EB			
EC			
EX			
GO			
GS			
LA			
LB			
LC			
LO			
LR			
LS			
RV			
SF			

* One Year Minimum on all features and functions

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.7 Program Audio Service

			Monthly	Daily	Nonrecurring		
			Rates	Rates	Charges		
	<u>USOC</u>				<u>Monthly</u>	<u>Daily</u>	
(A)	<u>Channel Termination</u>						
	- Per Point of Termination						
	- 200 to 3500 Hz	T6ECS	\$ 45.00(I)	\$ 2.59	None	None	
	- 100 to 5000 Hz	T6ECS	50.00(I)	3.90	None	None	
	- 50 to 8000 Hz	T6ECS	60.00(I)	4.82	None	None	
	- 50 to 15000 Hz	T6ECS	120.00(I)	14.26	None	None	
	- 5 or 7.5 kHz	T6ECS	125.00	15.00	None	None	(N)
	- 8 or 15 kHz	T6ECS	130.00	15.60	None	None	(N)

* Daily rates will be topped and maximum rates derived as set forth in 7.4.1(B) preceding.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.7 Program Audio Service

(B) Channel Mileage

	USOC*	Monthly Rates		Daily Rates		
		Fixed	Per Mile	Fixed	Per Mile	
(1) 200 to 3500 Hz						
<u>Mileage Bands</u>						
0	1L5XX	None	None	None	None	
Over 0 to 4	1L5XX	\$61.00(I)	\$1.70(I)	\$5.60	\$.14	
Over 4 to 8	1L5XX	61.00(I)	1.70(I)	5.60	.14	
Over 8 to 25	1L5XX	61.00(I)	1.70(I)	5.60	.14	
Over 25	1L5XX	61.00(I)	1.70(I)	5.60	.14	

(2) 100 to 5000 Hz

<u>Mileage Bands</u>						
0	1L5XX	None	None	None	None	
Over 0 to 4	1L5XX	61.00(I)	1.70(I)	5.60	.14	
Over 4 to 8	1L5XX	61.00(I)	1.70(I)	5.60	.14	
Over 8 to 25	1L5XX	61.00(I)	1.70(I)	5.60	.14	
Over 25	1L5XX	61.00(I)	1.70(I)	5.60	.14	

* When service is provided by multiple companies use USOC: CM6 for Fixed-Channel Mileage and USOC: ZL5XX for Per Mile-Channel Mileage for all Mileage Bands.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.7 Program Audio Service (Cont'd)

	USOC*	<u>Monthly Rates</u>		<u>Daily Rates</u>		
		<u>Fixed</u>	<u>Per Mile</u>	<u>Fixed</u>	<u>Per Mile</u>	
(B) Channel Mileage (Cont'd)						
(3) 50 to 8000 Hz						
<u>Mileage Bands</u>						
0	1L5XX	None	None	None	None	
Over 0 to 4	1L5XX	\$61.00(I)	\$1.70(I)	\$5.60	\$.14	
Over 4 to 8	1L5XX	61.00(I)	1.70(I)	5.60	.14	
Over 8 to 25	1L5XX	61.00(I)	1.70(I)	5.60	.14	
Over 25	1L5XX	61.00(I)	1.70(I)	5.60	.14	
(4) 50 to 15000 Hz						
<u>Mileage Bands</u>						
0	1L5XX	None	None	None	None	
Over 0 to 4	1L5XX	61.00(I)	1.70(I)	5.60	.14	
Over 4 to 8	1L5XX	61.00(I)	1.70(I)	5.60	.14	
Over 8 to 25	1L5XX	61.00(I)	1.70(I)	5.60	.14	
Over 25	1L5XX	61.00(I)	1.70(I)	5.60	.14	
(5) 5 or 7.5 kHz (N)						
<u>Mileage Bands</u>						
0	1L5XX	None	None	None	None	
Over 0 to 4	1L5XX	61.00	1.70	5.60	.14	
Over 4 to 8	1L5XX	61.00	1.70	5.60	.14	
Over 8 to 25	1L5XX	61.00	1.70	5.60	.14	
Over 25	1L5XX	61.00	1.70	5.60	.14	
(6) 8 or 15 kHz (N)						
<u>Mileage Bands</u>						
0	1L5XX	None	None	None	None	
Over 0 to 4	1L5XX	61.00	1.70	5.60	.14	
Over 4 to 8	1L5XX	61.00	1.70	5.60	.14	
Over 8 to 25	1L5XX	61.00	1.70	5.60	.14	
Over 25	1L5XX	61.00	1.70	5.60	.14	

* When service is provided by multiple companies use USOC: CM6 for Fixed-Channel Mileage and USOC: ZL5XX for Per Mile-Channel Mileage for all Mileage Bands.

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 Christopher J. Wilson, Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Rates and Charges (Cont'd)7.5.7 Program Audio Service (Cont'd)(C) Optional Features and Functions

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Daily Rates</u>	<u>Nonrecurring Charges</u>	
				<u>Monthly</u>	<u>Daily</u>
(1) Bridging (Distribution Amplifier) - Per port	BRP++	ICB	ICB	None	None
(2) Gain Conditioning - Per service	XGC	\$10.77	\$1.08	None	None
(3) Stereo - Per service	XSC	None	None	None	None

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D. Scott Ringo, Assistant Secretary, Cincinnati Bell Extended Territories LLC

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
- 7.5 Rates and Charges (Cont'd)
- 7.5.8 Video Service

		<u>USOC</u>	<u>Monthly Rates</u>		<u>Nonrecurring Charges Monthly</u>		
(A)	Channel Termination						
		<u>USOC</u>	<u>Monthly</u>	<u>12 Mo.</u>	<u>Monthly 24 Mo.</u>	<u>Non-Recurring 36 Mo. Charges</u>	
(A)	Channel Termination						
-	Per Point of Termination						
-	TV-1 or 2	TMEV1	\$350.00(I)	\$320.00	\$295.00	\$260.00 None	
-	4TV-5	TMEV4	350.00(I)	320.00	295.00	260.00 None	
-	6TV-5	TMEV6	350.00(I)	320.00	295.00	260.00 None	
-	TV-15	TMEV5	350.00(I)	320.00	295.00	260.00 None	
(B)	Channel Mileage						
		<u>USOC**</u>			<u>Fixed</u>		
	<u>Mileage Bands</u>						
	0	1L5XX	None				
Over	0 to 4	1L5XX	\$130.00(I)	\$130.00(I)	\$130.00(I)	\$130.00(I) None	
Over	4 to 8	1L5XX	130.00(I)	130.00(I)	130.00(I)	\$130.00(I) None	
Over	8 to 25	1L5XX	130.00(I)	130.00(I)	130.00(I)	\$130.00(I) None	
Over	25	1L5XX	130.00(I)	130.00(I)	130.00(I)	\$130.00(I) None	
		<u>USOC**</u>			<u>Per Mile</u>		
	<u>Mileage Bands</u>						
	0	1L5XX	None				
Over	0 to 4	1L5XX	\$ 75.00(I)	\$ 75.00(I)	\$ 75.00(I)	\$ 75.00(I) None	
Over	4 to 8	1L5XX	75.00(I)	75.00(I)	75.00(I)	75.00(I) None	
Over	8 to 25	1L5XX	75.00(I)	75.00(I)	75.00(I)	75.00(I) None	
Over	25	1L5XX	75.00(I)	75.00(I)	75.00(I)	75.00(I) None	
(C)	TV Analog Video Optional						
	3rd and 4th Audio Channel	VAKSA			\$110.00		
				<u>Monthly</u>	<u>12 Mo.</u>	<u>24 Mo.</u>	<u>36 Mo.</u>
(D)	Serial Component Video						
	Service (SCVS) - TV270	ZZYAC	\$600.00	\$540.00	\$500.00	\$450.00	
	Per Port Termination						
(E)	High Definition TV						
	Per Channel	ZZYAD	\$1,100.00	\$1,050.00	\$1,000.00	\$ 950.00	

* When service is provided by multiple companies use USOC: CM6 for Fixed-Channel Mileage and USOC: ZL5XX for Per Mile-Channel Mileage for all Mileage Bands.

