

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

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.

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 nor 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 no restriction against doing so.

Following is a brief description of each type of channel:

Metallic* - a channel for the transmission of low speed varying signals at rates up to 30 baud.

Telegraph Grade** - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

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

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Video - a channel for the transmission of standard 525 line/60 field monochrome or National Television Systems Committee color video signal and one to four associated 5 or 15 KHz audio signals. The bandwidth for a video channel is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 Mhz. Or, a digital broadband pipe of uncompressed video and audio at a rate of 270 Mbps.

* Limited Offering Service provided only to existing customers and services working as of January 1, 1995. See General Regulations 2.1.4, (C) preceding.

** Frozen/Grandfathered Service provided only to existing customers and services working as of the effective date of Advice Letter No. 18405. Additions, deletions, moves, or changes will result in complete disconnection of the service. See General Regulations 2.1.4, (E) preceding.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56.0 kbps.

Advanced Digital Network - a channel for the digital transmission of synchronous serial data at the fixed speeds of 2.4, 4.8, 9.6, 19.2, 56, 64 Kbps and 1.544 Mbps. Also variable speed bands of 1.2 to 38.4 Kbps and 1.2 to 64.0 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.

SONET Ring and Access Service[#] - a channel for the transmission of synchronous or asynchronous data at the rates of 1.5, 45, 155 and 622 Mbps or 2.4 Gbps, 100 Mbps and 1 Gbps.

GigaMANSM - a channel for the transmission of one-way digital signals at 1 Gbps.

Dedicated OC-192 SONET Ring Service - is a 9.953 Gbps transport Service. OC-192 is designed for transport of lower speed optical services, e.g., OC-3 or OC3c, OC-12 or OC-12c, OC-48 or OC-48c, and 1 Gbps.

Optical Carrier Network (OCN), Point to Point service, designed for transport of synchronous data at the rates of 155.52 Mbps, 622.08 Mbps, 2488.32 Mbps and 9953.28 Mbps.

Multi-service Optical Network Ring service - designed for the physical transport of multiple data signals utilizing each of these wavelengths represents a transmission channel in the MON Ring system and is protocol independent of every other channel in the system, as set forth in Schedule Cal.P.U.C. No. D12.@ (N)

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

* Provided only to existing customers and services working as of January 1, 1995.

Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006, pending CPUC Resolution. See General Regulations, Schedule Cal.P.U.C. No. 175-T, Section 2.1.4, (F).

@ Effective December 1, 2012, MON Ring Service is Grandfathered and limited to customers with existing service. For additional information see Schedule Cal. P.U.C. No. D12.2, Limited Offer. (N)
(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

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OC-3, OC-12, OC-48 Dedicated SONET Ring Service provides dedicated bandwidth capacity over a self-healing ring for a single customer for the purpose of transporting the customer's data over a dedicated network.

The customer also has the option of ordering digital High Capacity or Fiber AdvantageSM facilities (i.e., 1,544 Mbps, 3.152 kbps, 6.312 Mbps, 44.736 Mbps and 274.176 Mbps) to a Utility Hub for multiplexing to individual channels of a lower capacity bandwidth. Descriptions of the types of multiplexing available at the Hubs, as well as the number of individual channels which may be derived from each type of facility, are set forth in 7.2 following. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are also set forth in 7.2 following.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.9 Ordering Options and Conditions

Special Access Service is ordered under the Access Order provisions 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.).

Certain Special Access Services may be offered to a customer through a Sales Agency Program as set forth in Schedule Cal.P.U.C. Nos. A2.1.1, Rule 1 - Definition of Terms. See also, A2.3 - Form, Network Services Marketing Agreement, Form No. UE 0028. The services available under a Sales Agency Program are:

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- Advanced Digital Network (ADN)
- Digital Data Service (DDS)*
- High Capacity Service (HCS)

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* Limited Offering Service as of January 1, 1995. See 2.1.4, (C) preceding for description.

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Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions

For the purposes of ordering, these are the categories of
Special Access Service:

Metallic (MT)*		(D)
Telegraph Grade (TG)#	Video (TV)	
Voice Grade (VG)	Digital Data (DA)*	
- Universal WATS Access Line (UWAL)	Advanced Digital Network (ADN)	
- Private Virtual Network Access Line (PVNAL)	High Capacity (HC)	
Optical Carrier Network (OCN) Point to Point Service	SONET Ring and Access Service® GigaMAN® Service	
OC-3, OC-12 and OC-48 Dedicated SONET Ring Service	OC-192 Dedicated SONET Ring Service	
	Multi-service Optical Network Point to Point Service	
	Multi-service Optical Network Ring Service**	

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface and when desired optional features and functions are added to construct the service desired by the customer. Each of the components of the service are described in this section. Technical limitations may exist that affect the provisioning of services as shown in 7.2.1 and 7.2.2, depending on the availability of equipment and facilities. The Utility will provide reasonable notification to the customer of any limitations that materially affect the operating characteristics of the special access service. (See Section 2.1.7 for information concerning changes and substitutions.)

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

* Limited Offering Service provided only to existing customers and services working as of January 1, 1995. See Section 2.1.4 General Regulations preceding. Existing service arrangements will be maintained up to and including the Utility's local loop demarcation point. Work activity beyond the Utility's local loop demarcation point is the responsibility of the customer at the customer's expense.

Frozen/Grandfathered Service available only to customers and services working as of the effective date of Advice Letter No. 18405. Additions, deletions, moves, or changes will result in complete disconnection of the service. See General Regulations 2.1.4, (E) preceding.

@ Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006, pending CPUC Resolution. See General Regulations, Schedule Cal.P.U.C. No. 175-T, Section 2.1.4, (F).

** MON Ring Grandfathered effective December 1, 2012. See Schedule Cal.P.U.C. No. 12.2, Limited Offer.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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.

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The channel description specifies 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 Utility Hub where bridging or multiplexing functions are performed.

(L)

(L) Formerly on sheet 249.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

The Utility will maintain existing transmission specifications on services installed prior to the effective date of this tariff except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this tariff. All services installed after September 6, 1988 will conform to the transmission specification standards contained in the following Technical References for each category of service:

Metallic*	PUB	TR-NPL-000336
Telegraph Grade [#]	PUB	TR-NPL-000336
Voice Grade	PUB	TR-NWT-000335
	PUB	41004, and L-7800042-PB/NB
- WATS Access Line Service		GR-334-CORE
- Universal WATS Access Line Service		GR-334-CORE
- Private Virtual Network Access Line Service	PUB	GR-334-CORE
Program Audio	PUB	TR-NPL-000337
Video	PUB	AM-TR-NIS-000137, L720026PB/NB (C)
Digital Data*	PUB	TR-NWT-000341
	PUB	MDP-326-726
Advanced Digital Network High Capacity	PUB	L-780036-PB
	PUB	62508
		L-780059-PB/NB
- IntraLATA Voice Grade Private Line Service	PUB	TR-NWT-000965 and L-780029-PB
- Data Communications Using Local Area Data Channel	PUB	MDP-326-986
- SONET Ring and Access Service [@]	PUB	L-780046PB/NB
GigaMAN SM	PUB	AM-TR-NIS-000104

* Limited Offering Services - See General Regulations 2.1.4, (C) preceding. Provided only to existing customers and services working as of January 1, 1995. Existing service arrangements will be maintained up to and including the Utility's local loop demarcation point. Work activity beyond the Utility's local loop demarcation point is the responsibility of the customer at the customer's expense.

Frozen/Grandfathered Service - See General Regulations 2.1.4, (E) preceding.

@ Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006, pending CPUC Resolution. See General Regulations, Schedule Cal.P.U.C. No. 175-T, Section 2.1.4, (F).

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

The Utility will maintain existing transmission specifications on services installed prior to the effective date of this tariff except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this tariff. All services installed after September 6, 1988 will conform to the transmission specification standards contained in the following Technical References for each category of service: (Cont'd)

OC-n Dedicated SONET Ring Service	PUB PUB	AM TR-NIS-000111 AM TR-TMO-000101	
Optical Carrier Network (OCN) Point to Point Service	PUB PUB	AM-TR-NIS-000111 AM-TR-TMO-000101	
Multi-service Optical Network, Point to Point service	PUB	AM TR-NIS-000100 AM TR-NIS-000104 AM-TR-NIS-000111 AM-TR-TMO-000101 AM-TR-TMO-000080 AM-TR-MIS-000077 IEEE 802.3 AM-TR-NIS-000096 AM-TR-NIS-000107 IBM SA22-7202-XX IBM SA23-0394-XX ANSI X3.T9.3 NSI/IEEE 802.3 IEEE 802.3x and z ANSI/SMPTE 259M)	
Multi-service Optical Ring Network Service (MON Ring)*	PUB	AM TR-NIS-000100 AM TR-NIS-000104 AM-TR-NIS-000111 AM-TR-TMO-000101 AM-TR-TMO-000080 AM-TR-NIS-000096 AM-TR-NIS-000107 IBM SA22-7202-XX IBM SA23-0394-XX ANSI X3.T9.3 ANSI/IEEE 802.3 IEEE 802.3x and z IEEE 802.3ae ANSI/SMPTE 259M	(N)

* Effective December 1, 2012, MON Ring Service is Grandfathered and limited to (N) customers with existing service. For additional information see Schedule Cal. P.U.C. No. D12.2, Limited Offer. (N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 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 Utility Hub or between a customer designated premises or Utility Hub and an EIS POT.

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(B) Technical Specifications Packages

Parameter	Package VG-												
	C*	1	2	3	4	5	6	7	8	9	10	11	12
Attenuation													
Distortion	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
Echo Control	X	X	X	X		X		X	X			X	X
Envelope Delay													
Distortion	X						X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X
Impulse Noise	X					X	X	X	X	X	X	X	X
Intermodulation													
Distortion	X						X	X	X	X	X	X	
Loss Deviation	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	
Signal-to-C													
Message Noise					X								
Signal-to-C													
Notch Noise	X					X	X	X	X	X	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 Digital Services

(B) Advanced Digital Network[#]

(1) Basic Channel Description

Advanced Digital Network service provides full duplex four-wire transmission of synchronous serial data at the fixed rate of 2.4, 4.8, 9.6, 19.2, 56.0 64.0 Kbps and 1.544* Mbps. Customer speed selectability will be provided when ordered as variable@. There are two variable speed bands; (1) 1.2 to 38.4 Kbps which include digital rates of 1.2, 2.4, 4.8, 9.6, 19.2, 32.0 and 38.4 Kbps, (2) 1.2 to 64.0 Kbps which include digital rates of 1.2, 2.4, 4.8, 9.6, 19.2, 32.0, 38.4 and 64.0 Kbps. Variable speed selection will allow the customer to change bit rate without issuing an order through the Utility. The actual bit rate is a function of Utility equipment and the channel interface selected by the customer. Synchronous timing is provided by the Utility through the Utility's facilities to the customer in the received bit stream. Advanced Digital Network services are provided between customer designated premises through Serving Wire Centers, or through a Utility Advanced Digital Network Hub or between a customer designated premises, or Utility Hub, and an EIS POT. 1.544* Mbps service is only available via Utility designated Advanced Digital Network Hubs.

Advanced Digital Network Service connected to Access Advantage Plus is only offered between customer designated presence and not a carrier point of presence.

The customer will provide the Network Channel Terminating Equipment compatible with Advanced Digital Network service at the customer premises.

Advanced Digital Network may be terminated on a channel port of Access Advantage Plus as found in Guidebook, Part 6, Section 7. (T)

@ Provided only to existing customers and services working as of January 1, 1995. Not available with Access Advantage Plus.

* Regulations, Rates and Charges for 1.544 Mbps service are set forth in 7.2.8(C) and 7.5.8(C) following.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Services

(B) Advanced Digital Network#**

(C)

(1) Basic Channel Description

Advanced Digital Network service provides full duplex four-wire transmission of synchronous serial data at the fixed rate of 2.4, 4.8, 9.6, 19.2, 56.0 64.0 Kbps and 1.544* Mbps. Customer speed selectability will be provided when ordered as variable@. There are two variable speed bands; (1) 1.2 to 38.4 Kbps which include digital rates of 1.2, 2.4, 4.8, 9.6, 19.2, 32.0 and 38.4 Kbps, (2) 1.2 to 64.0 Kbps which include digital rates of 1.2, 2.4, 4.8, 9.6, 19.2, 32.0, 38.4 and 64.0 Kbps. Variable speed selection will allow the customer to change bit rate without issuing an order through the Utility. The actual bit rate is a function of Utility equipment and the channel interface selected by the customer. Synchronous timing is provided by the Utility through the Utility's facilities to the customer in the received bit stream. Advanced Digital Network services are provided between customer designated premises through Serving Wire Centers, or through a Utility Advanced Digital Network Hub or between a customer designated premises, or Utility Hub, and an EIS POT. 1.544* Mbps service is only available via Utility designated Advanced Digital Network Hubs.

Advanced Digital Network Service connected to Access Advantage Plus is only offered between customer designated presence and not a carrier point of presence.

The customer will provide the Network Channel Terminating Equipment compatible with Advanced Digital Network service at the customer premises.

Advanced Digital Network may be terminated on a channel port of Access Advantage Plus as found in Guidebook, Part 6, Section 7.

@ Provided only to existing customers and services working as of January 1, 1995. Not available with Access Advantage Plus.

* Regulations, Rates and Charges for 1.544 Mbps service are set forth in 7.2.8(C) and 7.5.8(C) following.

** Effective December 1, 2021, Advanced Digital Network (fixed speeds 2.4, 4.8, 9.6, 19.2, 56, and 64 Kbps) service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. See Frozen/Grandfathered Service, General Regulations 2.1.1, (F).

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Services (Cont'd)

(C) High Capacity Service

(1) 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, 44.736 (DS3, DS3x3 and DS3x12), or 274.176 Mbps isochronous serial data. The actual bit rate and framing format is a function of the network channel interface selected by the customer. DS3, DS3x3 and DS3x12 will be provided with or without Utility provided terminal equipment on the customer's premises. When a customer desires to furnish their own terminal equipment, the Utility will work cooperatively with the customer to provide a physical interface satisfactory to both parties. High Capacity channels are provided between customer designated premises through serving wire centers or between a customer designated premises and a Utility Hub or between a customer designated premises or Utility Hub, and an EIS POT. DS3x12 is only provided between a customer designated premises and the serving wire center serving that premises.

High Capacity service offerings are only available where facilities and operating conditions permit. Where facilities and/or operating conditions do not permit, Special Construction as set forth in Section 15 following shall apply.

Customer may not use Service for the purpose of transporting "NG 9-1-1" calls in the State of California. See AT&T California's Network and Exchange Services Schedule Cal.P.U.C. No. A, Section A21.

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* Available only as a channel of a 1.544 Mbps facility between two Utility Digital Data Hub or as a cross connect of two channels of two 1.544 Mbps facilities at a Digital Data Hub(s); or as a through-connect of two channels of two 1.544 Mbps facilities at an Advanced Digital Network Hub. The customer must provide system and channel assignment data.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Services (Cont'd)

(C) High Capacity Service (Cont'd)

(1) Basic Channel Description (Cont'd)

DS3, DS3x3 and DS3x12 services provide a total capacity of one (DS3), three (DS3x3) or twelve (DS3x12) services. DS3x3 services can be point-to-point or connected at the wire center serving that premises to individual terminating DS3 services, or to individual DS3 services for multiplexing at a Hub. DS3x12 service can only be connected at the serving wire center to individual terminating DS3 services, or to individual DS3 services for multiplexing at a Hub. The DS3 to DS1 multiplexing function is only available in Utility Hubs as indicated in The National Exchange Carrier Association (NECA) Tariff F.C.C. No. 4, Section 16. For Information on how to obtain copies of the NECA Tariff see Section 14 following. (T)
(N)
(N)

DS3, DS3x3 and DS3x12 High Capacity service offerings are only available where facilities and operating conditions permit. Where facilities and/or operating conditions do not permit, Special Construction as set forth in Section 15 following shall apply.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.10 OC-192 Dedicated SONET Ring Service

(A) General Description

(1) Basic Service Description

OC-192 Dedicated SONET Ring Service[#] is a 9.953 Gbps transport Service. OC-192 is designed for transport of lower speed optical services, e.g., DS-3, OC-3 or OC3c, OC-12 or OC12c, and OC-48* or OC48c*. The dedicated ring is designed to provide increased reliability and functionality by connecting multiple customer locations and specified Utility Serving Wire Centers via self-healing Bi-directional Line Switched Rings (BLSR). OC-192 is a logical extension of existing SONET products and services OC-3, OC-3c, OC-12, OC12c, OC48*, OC48c*.

The dedicated ring can connect multiple (between 2 and 16) customer-designated locations and Utility Serving Wire Centers, as described in 7.2.10, (1) (B) following, where SONET facilities and equipment are available.

Rate elements include nodes, ports, mileage, regenerators, and add/drop capability. Rates are specified in 7.5.12 following.

The SONET add/drop multiplexer aggregates lesser bit speed services onto the dedicated ring configuration. Synchronous Transport Signal-level 1 (STS1) at 51 Mbps is the basic SONET technology building block. Electrical signals in the form of digital pulses are converted to Optical Carrier rates (OC-n) for transmission on fiber optics. Connecting facilities carry synchronous and asynchronous transmissions. The service includes enhanced survivability and network management per SONET (Synchronous Optical Network) technology.

All service configurations have one working and one standby transmission path. In the event of a failure of the customer's transmission path, SONET technology will protection switch, within 50 milliseconds of detection, to a dedicated standby path.

OC-192 Dedicated SONET Ring service and its features are (N)
available only where facilities and operating conditions permit. (N)

* OC-48/OC-48c riding service is available only to customers purchasing OC-192 Dedicated SONET Ring service and is limited to Customer Premises to Customer Premise Port to port orders. OC-48/OC-48c service cannot be extended beyond the Customer location nodes. OC-48/OC-48c riding service will not be available immediately.

OC-192 Dedicated SONET Ring is available via Self-Healing Uni-Directional Path Switched Rings (UPSR) or Bi-Directional Line Switched Ring (BLSR).

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.10 OC-192 Dedicated SONET Ring Service (Cont'd)

(A) General Description (Cont'd)

(1) Basic Service Description (Cont'd)

(D)

(D)

EC-1 (Electrical Carrier Level 1) Interface

The EC-1 service interface is implemented as a standardized SONET electrical service interface as specified in Section 5 of ANSI T1.416.03-1999. The EC-1 interface provides the capability for connecting one SONET STS-1 signal across a SONET electrical service interface to a Company provided Optical Carrier Network (OCN) Point to Point or Company provided Dedicated SONET Ring service. The STS-1 signal connecting across an EC-1 interface may only contain: a) one DS3 circuit mapped into the SONET STS-1 signal payload, or b) one STS-1 circuit, without constraint as to payload mapping. Offered as Customer Premises port termination, and as a CO termination where facilities and/operating conditions permit on Dedicated SONET Ring service. (T) (T)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Optical Carrier Network (OCN) Point-to-Point Service

Optical Point-to-Point service will be designed to provide the customer with a custom point-to-point linear network. Optical Carrier Network (OCN) Point-to-Point service offers a highly reliable transport service that connects customer premises and Utility Serving Wire Center in point-to-point linear configuration. OCN supports voice, data, video, imaging, Internet traffic and other advanced broadband applications.

OCN Point-to-Point channels provide high speed synchronous optical fiber-based full duplex data transmission capabilities between two points. These services provide optical data transmission with the following characteristics:

- OC-3/OC-3c provides channels operating at the terminating bit rate of 155.52 Mbps;
- OC-12/OC-12c provides channels operating at the terminating bit rate of 622.08 Mbps;
- OC-48/OC-48c provides channels operating at the terminating bit rate of 2488.32 Mbps;
- OC-192/OC-192c 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:

- a customer designated premises to another customer designated premises, without add/drop multiplexing capability.
- a customer designated premises to a Utility Serving Wire Center where add/drop multiplexing and add/drop functions are performed.

Optical Transmission paths for OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192/OC-192c, differentiated by bit rate and the quality of transmission is as delineated by the Optical Interface definitions in the appropriate technical reference publication(s) for the service ordered.

OC-3, OC-12, and OC-48 may be connected by (1) using the appropriate OC-3, OC-12 or OC-48 add/drop multiplexer (mux) along with the add/drop function to a DS1 and/or DS3 at suitably equipped wire centers, or (2) by using the full bandwidth premises to premises.

Optical Carrier Network (OCN) Point-to-Point service is only available where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not permit, Special Construction as set forth in Section 15. following shall apply.

(L) Material formerly located on Sheet 283-L-2.

(L)
(T)
(T)
(L)
(N)

Continued

ACCESS SERVICE

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)

Ethernet Over SONET (EoS)

EoS allows the efficient transport of Ethernet frames using SONET. Ethernet Optical Add/Drop capability will be available in bandwidths up to 1 Gbps on an OCN Point-to-Point Service. As SONET bandwidths will be preset, the customer will be unable to transmit data beyond these preset SONET bandwidths. Only single-mode fiber is available in the Central Office. The EoS line rates are based on the theoretical SONET payload line rates as specified in Telcordia Publication GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Description (Cont'd)

7.2.15 OC-3, OC-12 and OC-48 Dedicated SONET Ring Service

(A) Basic Service Description

OC-3, OC-12 and OC-48 Dedicated SONET Ring service provides dedicated bandwidth capacity over a self-healing ring for a single customer for the purpose of transporting the customer's data.

OC-3, OC-12 and OC-48 Dedicated SONET Ring is offered between customer's premises and Utility Serving Wire Centers (SWCs) and is provided where facilities and/or operating conditions exist. Where facilities and/or operating conditions do not exist, Special Construction charges, as set forth in Section 15, may apply.

The network is in a ring architecture, including sub-rings (or ARC sub-rings provisioned on appropriate Next Generation SONET equipment), designed to provide increased reliability and functionality.

(N)
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(N)

A minimum of two nodes is required (excluding sub-ring nodes and ARC sub-ring nodes) and cannot exceed 16 nodes, including regenerators. At least one of the nodes must be located at the Utility SWC.

(T)
(N)

The Utility's service supports synchronous bandwidth capacities at OC-3 (155 Mbps), OC-12 (622 Mbps) and OC-48 (2.4 Gbps). The SONET add/drop multiplexer aggregates lesser bit speed services onto the dedicated ring configuration. Synchronous Transport Signal-level 1 (STS-1) at 51 Mbps is the basic SONET technology building block. Electrical signals in the form of digital pulses are converted to Optical Carrier rates (OC-n) for transmission on fiber optics.

Connecting facilities carry synchronous and asynchronous transmissions. The service includes enhanced survivability and network management per SONET (Synchronous Optical Network) technology.

All service configurations have one working and one standby transmission path. In the event of a failure of the customer's transmission path, SONET technology will protection switch, within 50 milliseconds of detection, to a dedicated standby path.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Description (Cont'd)

7.2.15 OC-3, OC-12 and OC-48 Dedicated SONET Ring Service (Cont'd) (N)

(A) Basic Service Description (Cont'd)

The rate elements associated with OC-3, OC-12 and OC-48 Dedicated SONET Ring service are:

- Customers Premises and Central Office Nodes
- Ports that identify facility interfaces
- Mileage between the Serving Wire Centers (Central office Nodes)
- Regenerators
- Add/Drop Capability
- Optional Features

Upon request, OC-3, OC-12 and OC-48 Dedicated SONET Ring service may be placed upon diverse fiber facilities where available. Where facilities and/or operating conditions do not exist, Special Construction charges as set forth in Section 15, may apply.

Customers may choose to accept the Ring without Diversity (i.e., no dual entrance facility) or prior to cable diversity being available. In this situation out of service Credit Allowances as set forth in Section 2.4.4 are applicable.

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Description (Cont'd)

7.2.15 OC-3, OC-12 and OC-48 Dedicated SONET Ring Service (Cont'd)

(A) Basic Service Description (Cont'd)

(1) Nodes

Customers Premises Nodes and Central Office Nodes

Nodes aggregate lower bandwidth capacities onto the ring through use of the SONET add/drop multiplexer function. The CO Node is located in the Company SWC; the Premises Node, at the customer's location. For ring nodes bandwidth capacities are 155 Mbps (OC-3), 622 Mbps (OC-12), and 2.4 Gbps (OC-48). A Ring must have a minimum of two nodes, excluding sub-rings and ARC sub-rings. One node must be located in the Company SWC. A maximum of 16 nodes including regenerators will be allowed per ring. (T)

When a customer premises node is located in the same building as a CO Node, diversity between the two nodes may not be available. (T)

Additional Node

If a customer requests and has installed two customer premises nodes of the same speed, on the same dedicated ring, at the same customer premises location, the additional node will be billed rates and charges as set forth in 7.5.15 following. The lower rate does not qualify when the additional node is located in another room or building from the first node. This option does not guarantee diversity between these two nodes and the rest of the ring.

(D)

(D)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.10 DS1 and Fiber AdvantageSM Service

(A) Payment Plans*, # (N)

(1) Rate Stability Plans for Fiber AdvantageSM DS1, DS3, DS3x3 And DS3x12*, # (N)

Rates and Charges for DS1, DS3 and DS3x3 service are offered with a 1, 3 or 5 year Rate Stability Payment Plan. DS3x12 service is offered with a 3 or 5 year Rate Stability Payment Plan.

For customers that subscribe to a 1, 3 or 5 year Rate Stability Payment Plan, the monthly rates in effect at the time the service is installed will not increase during the payment plan period.

The customer has the option to order a Rate Stability Payment Plan for each individual DS1 or DS3 service hubbed with a DS3 or DS3x3 service.

(2) Term Payment Plans for DS1 1.544 Mbps Service*, # (N)

DS1 1.544 mbps service (non Fiber Advantage) provides the customer Term Payment Plans (TPP's) for one, two, three or five-year terms. Rates for the plans are the rates in effect at the time the service is installed.

During the length of the selected TPP, monthly rates for services ordered under the plan will automatically change (increase or decrease) as the result of Company initiated rate changes or a Commission Order or Decision. However, under no circumstances will any rate change cause the monthly rates for the service to exceed the rate that was in effect at the time the service was installed for the TPP selected.

* As of November 1, 2013, Rate Stability/Term Payment Plan terms greater than 36 months are no longer available for new or renewing subscribers. (T)

As of January 15, 2021, 3-Year Rate Stability/Term Payment Plans are no longer available to new or renewing subscribers. (N)
(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.13 OC-192 Dedicated SONET Ring Service (Cont'd) (T)

(B) Term Pricing Plan

(1) General Description

OC-192 Dedicated SONET Rings are available for either three or five year Term Pricing Plan (TPP) periods. Monthly recurring charges apply for the nodes, ports and mileage.

(2) Nonrecurring Charges

Nonrecurring Charges, including the Administrative Charge, as set forth in 7.5.12 following will apply for those arrangements ordered under the OC-192 Dedicated SONET Ring TPP.

(3) Rate Flow Through

Any decreases in recurring tariff rates will be passed on to customers who participate in the TPP. The Utility will notify customers participating in the TPP when monthly rates are decreased. Should the Utility increase its rates during the TPP period, the customer will pay the increased rates as long as the increase does not exceed the original tariffed rate in effect at the time the customer established service under the TPP.

(4) Adding Nodes to the Ring

If a node is added after the initial installation of the dedicated ring, the new node will carry the same TPP rate as the initial ring and be co-terminus with that TPP. However, if a node is added during the last 12 months or less of a TPP, the customer will be billed the initial node rate for a minimum period of 12 months. All applicable Nonrecurring Charges as set forth in Section 7.5.12 following will apply. (T)

Continued

ACCESS SERVICE

7. Special Access Services (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.13 OC-192 Dedicated SONET Ring Service (Cont'd) (T)

(B) Term Pricing Plan (Cont'd)

(5) TPP Renegotiation

The customer may choose to terminate an existing TPP any time prior to the end of the three or five year period and negotiate a new TPP without termination liability provided the new TPP meets the following requirements:

- (a) The minimum period for the new TPP must be greater than the remaining period currently in effect and
- (b) The renegotiated TPP will be based on the current rates.

When the customer converts to a new TPP, actual time in service for the original TPP will be applied. However, no credits or refunds will apply for the billing or actual time in service for the previous TPP.

(6) Termination of Service

If a customer cancels a service order or terminates services before the completion of the term for any reason whatsoever other than the result of a service renegotiation, the customer agrees to pay to the Utility termination liability charges, which are defined below. These charges shall become due and owing as of the effective date of the cancellation or termination and are payable within 30 days of the invoice date, subject to interest penalty on the unpaid balance.

Customer's termination liability for cancellation of service shall be equal to:

- (a) all waived and/or unpaid nonrecurring charges, plus;
- (b) Fifty (50) percent of all recurring charges for the balance of the customer's term.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.13 OC-192 Dedicated SONET Ring Service (Cont'd) (T)

(B) Term Pricing Plan (Cont'd)

(7) Renewal

The customer must provide the Utility with a written notice of intent to renew a TPP no later than 60 days prior to its expiration.

The customer will continue to be billed at the current TPP rates.

If the customer does not renew the TPP, or does not notify the Utility of its intent to renew the TPP, the customer's service will convert to the Monthly Extension rate as set forth in 7.5.12 following until the customer cancels or renews the service with a new TPP term. Monthly Extension Rates are not available to new subscriptions. (T)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.18 OC-3, OC-12 and OC-48 Dedicated SONET Ring Service

(N)

(A) Term Pricing Plans

OC-3, OC-12, OC-48 Dedicated SONET Ring service is offered as a 36 or 60 month Term Pricing Plan (TPP) offering; the minimum term available is 36 months. The monthly rates that are applicable for the new term are those rates currently in effect for new customers.

The TPPs allows the customer to order service at rates commensurate with the length of the term. Any decrease in recurring tariff rates during a term will result in a decrease of monthly rates for an existing Term plan.

At the end of the TPP, the customer may order a new TPP, terminate service or, if no choice is made, the service will convert to the Monthly Extension Rates, subject to any future rate changes. If a customer does not complete the time period or term of the TPP, Termination Liability Charges will apply.

Rate changes resulting in an increase of rates for an existing service will not exceed the original rate for that selected Term Payment service period unless mandated by the California Public Utility Commission.

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.18 OC-3, OC-12 and OC-48 Dedicated SONET Ring Service (Cont'd)

(B.) Term Pricing Plan Renegotiation

(N)

The customer may choose to terminate an existing TPP any time prior to the end of the 36 or 60 month period and negotiate a new TPP without the application of termination liability provided the new TPP meets the following requirements:

- the minimum period for the new TPP must be greater than the remaining period currently in effect and has not expired;
- the customer has had the existing service for a period of 12 months;
- the renegotiated TPP will be based on the current rates;
- no lapse in service occurs;
- nonrecurring charges will apply, when applicable;
- the monthly rates for the new service will be those rates in effect at the time the new service is installed;
- The new TPP is provided between the same customer locations;
- spare facilities and equipment must be available or a Special Construction charges, as set forth in Section 15, may apply.

When the customer converts to a 60 month year TPP, actual time in service for the original TPP will be applied. However, no credits or refunds will apply for the billing or actual time in service for the previous TPP.

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.18 OC-3, OC-12 and OC-48 Dedicated SONET Ring Service (Cont'd)

(C) Term Pricing Plan Renewal

(N)

The customer must provide the Utility with a written notice of intent to renew a TPP no later than 60 days prior to its expiration.

The customer will continue to be billed at the current TPP rates.

The new TPP must be for a 36 or 60 month period.

If the customer does not renew the TPP, or does not notify the Utility of its intent to renew the TPP, the customer's service will convert to the Monthly Extension rate as set forth in Section 7.5.15 following, until the customer cancels or renews the service with a new TPP term. Monthly Extension Rates are not available to new subscriptions.

(D) Subsequent Activity on the Ring

If a new rate element(s), as described in Section 7.5.15 following, are added after the initial installation of the Dedicated SONET Ring, the new rate elements(s) will be assigned the same TPP term as the initial Ring. The TPPs for the new rate elements added after the initial implementation will be independent of the term of the initial ring as follows:

- if a new rate element is added during the last 12 months or less of a TPP, the customer will be billed the TPP rate for that element for a minimum period of 12 months.
- if the Ring is disconnected before the new rate element's term expires, termination liability for the new rate element will apply.

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.18 OC-3, OC-12 and OC-48 Dedicated SONET Ring Service (Cont'd)

(E) Termination of Service

(N)

If a customer terminates services before the completion of the TPP for any reason whatsoever other than the result of a service renegotiation, the customer agrees to pay to the Utility termination liability charges which are defined below. These charges shall become due and owing as of the effective date of the cancellation or termination and are payable within 30 days of the invoice date, subject to interest penalty on the unpaid balance.

Customer's termination liability for cancellation of service shall be equal to:

- (1) all waived and/or unpaid nonrecurring charges, plus;
- (2) Fifty (50) percent of all recurring charges for the balance of the customer's term.

(F) Upgrade to Higher Bandwidth Dedicated SONET Ring Service

- (1) Customers subscribing to an OC-3 Dedicated SONET Ring service may expand the service to an OC-12, OC-48 Dedicated SONET Ring service or to an OC-192 Dedicated SONET Ring.

Customers subscribing to an OC-12 Dedicated SONET Ring service may expand the service to an OC-48 and OC-192 Dedicated SONET Ring.

Customers subscribing to an OC-48 Dedicated SONET Ring service may expand the service to an OC-192 Dedicated SONET Ring.

This upgrade amounts to a conversion from one Ring service to another and requires placement of a new Dedicated SONET Ring service order for the higher bandwidth Ring service. A disconnect service order for the lower bandwidth SONET Ring service must be placed when the migration period (if one is required) is complete.

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.18 OC-3, OC-12 and OC-48 Dedicated SONET Ring Service (Cont'd)

(F) Upgrade to Higher Bandwidth Dedicated SONET Ring Service
(Cont'd)

- (2) OC-3, OC-12, and OC-48 Dedicated SONET Ring customers (N)
with 36 or 60 month TPPs may at any time upgrade to a
higher speed Dedicated SONET Ring Service as described
in (F) (1) preceding without incurring Termination
Liability charges, providing the following criteria are
met:
- the customer subscribes to a Term Plan period that
is equal to or greater than thirty-six months;
 - the customer has had the existing service for a
period of 12 months;
 - the expiration date for the new Term Plan period is
beyond the end of the original Optional Payment Plan
period;
 - no lapse in service occurs;
 - nonrecurring charges will apply, when applicable;
 - the monthly rates for the new service(s) will be
those rates in effect at the time the new service(s)
is/are installed;
 - the new service is provided between the same
customer locations and with the same customer of
record as the disconnected service;
 - billed recurring revenue for each month of the first
eighteen months of the new service is equal to or
greater than the billed recurring revenue for the
last month of the service(s) being converted; and
 - spare facilities and equipment must be available or
Special Construction charges, as set forth in
Section 15 following, may be applicable. (N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.3 Voice Grade Service

(A)	USOC	Monthly Rates	Nonrecurring [@] Charges	
			1st	Add'l.
- Per Point of termination				
*- at an End User location				
- Two-wire	T6E2X	\$31.67	\$565.13	\$497.81
- Four-wire	T6E4X	40.20	565.13	497.81
**- at an IC POT location				
- Two-Wire	T6P2X	23.25	565.13	497.81
- Four-Wire	T6P4X	31.63	565.13	497.81
#- Per Point of termination With DC Continuity				
- at an End User location				
- Two-wire	T6E2D	31.67	565.13	497.81
- Four-wire	T6E4D	40.20	565.13	497.81
- at an IC POT location				
- Two-Wire	T6P2D	23.25	565.13	497.81
- Four-Wire	T6P4D	31.63	565.13	497.81

** Access Advantage Plus can only be terminated at an end user location. (T)

* When service terminates on an Access Advantage Plus Channel port a channel termination charge will not apply. (T)

DC continuity is not allowed at any point of termination on Access Advantage Plus. (T)

@ Non-recurring charges associated with the installation of Access Advantage Plus on a 3 year Term Pricing Plan are waived. (T)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.8 Digital Services (Cont'd)

(B) Advanced Digital Network

<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring[@] Charges</u>	(T)
(1) <u>Channel Termination#</u>			
-Per point of Termination			
Fixed Speeds			
2.4 Kbps	VAN0D/VAN0P/VAN0W \$47.41	\$597.37	(T)
4.8 Kbps	VAN1D/VAN1P/VAN1W 47.41	597.37	
9.6 Kbps	VAN2D/VAN2P/VAN2W 47.41	597.37	
19.2 Kbps	VAN3D/VAN3P/VAN3W 47.41	597.37	
56.0 Kbps	VAN4D/VAN4P/VAN4W 47.41	597.37	
64.0 Kbps	VAN5D/VAN5P/VAN7W 47.41	597.37	(T)
Variable Speeds*			
- 1.2 to 38.4 Kbps	VAN5D/VAN5P/VAN5W 63.39	597.37	(T)
- 1.2 to 64.0 Kbps	VAN6D/VAN6P/VAN6W 71.35	597.37	(T)

<u>USOC</u>	<u>Monthly Rates</u>		(N)
(2) <u>Channel Mileage</u>	<u>Fixed</u>	<u>Per Mile</u>	
- Per Mile			
Fixed Speeds			
2.4 Kbps	1L5XX \$4.74	\$5.22	
4.8 Kbps	1L5XX 4.74	5.22	
9.6 Kbps	1L5XX 4.74	5.22	
19.2 Kbps	1L5XX 4.74	5.22	
56.0 Kbps	1L5XX 4.74	5.22	
64.0 Kbps	1L5XX 4.74	5.22	
Variable Speeds*			
1.2 to 38.4 Kbps	1L5XX 4.74	5.22	
1.2 to 64.0 Kbps	1L5XX 4.74	5.22	

* Provided only to existing customers and services working as of January 1, 1995.

@ Non-recurring charges associated with the installation of Access Advantage Plus on a 3 year Term Pricing Plan are waived.

All USOCs are used in CABS and CRIS billing systems.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.8 Digital Services (Cont'd)

(B) Advanced Digital Network**

(C)

(1) <u>Channel Termination#</u>	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges[@]</u>
-Per point of Termination			
Fixed Speeds			
2.4 Kbps	VAN0D/VAN0P/VAN0W	\$47.41	\$597.37
4.8 Kbps	VAN1D/VAN1P/VAN1W	47.41	597.37
9.6 Kbps	VAN2D/VAN2P/VAN2W	47.41	597.37
19.2 Kbps	VAN3D/VAN3P/VAN3W	47.41	597.37
56.0 Kbps	VAN4D/VAN4P/VAN4W	47.41	597.37
64.0 Kbps	VAN5D/VAN5P/VAN7W	47.41	597.37
Variable Speeds*			
- 1.2 to 38.4 Kbps	VAN5D/VAN5P/VAN5W	63.39	597.37
- 1.2 to 64.0 Kbps	VAN6D/VAN6P/VAN6W	71.35	597.37

(D)

(D)

* Provided only to existing customers and services working as of January 1, 1995.

@ Non-recurring charges associated with the installation of Access Advantage Plus on a 3 year Term Pricing Plan are waived.

All USOCs are used in CABS and CRIS billing systems.

** Effective December 1, 2021, Advanced Digital Network (fixed speeds 2.4, 4.8, 9.6, 19.2, 56, and 64 Kbps) service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. See Frozen/Grandfathered Service, General Regulations 2.1.1, (F).

(N)

(N)

Material omitted now on Sheet 330-B.

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.8 Digital Services (Cont'd)

(B) Advanced Digital Network (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(3) Optional Features and Functions			
(a) Bridging*			
- per port	DFOCO	\$5.69 (R)	None
(b) Secondary Channel*			
- per station	DFOSC	4.60	None
(c) Network Control and Diagnostics*#			
- per station	DFODG	7.58 (R)	None

* Not available with 1.544 Mbps service.

Provided only to existing customers and services working as of January 1, 1995.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.8 Digital Services (Cont'd)

(C) High Capacity Service

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	
			<u>1st</u>	<u>Add'l.</u>
	CABS/CRIS			
(1) Channel Termination				
- Per point of termination				
(a) <u>DS1 1.544 Mbps Service</u>				
Month to Month				
- at an End User location	TMECS/TMECS	\$165.94	\$600.69	NA* (T)
Month to Month				
- at an IC POT location	TMEPS/TMEPS	71.12	600.69	NA* (T)
- 1 Year Term Plan at an End User location	TMECS/T6XG1	160.00	600.69	NA* (T)
- 1 Year Term Plan at an IC POT location	TMEPS/T6XL1	71.12	600.69	NA* (T)
- 2 Year Term Plan# at an End User location	TMECS/T6XG2	155.00	None (R)	NA* (T) (N)
- 2 Year Term Plan# at an IC POT location	TMEPS/T6XL2	71.12	600.69	NA* (T) (N)

* For DS1 1.544 Mbps service, the charge for each point of termination is the charge shown for the 1st charge. (T)

As of January 15, 2021, 2-Year Term Plans are no longer available to new or renewing subscribers. (N)
 (N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.8 Digital Services (Cont'd)

(C) High Capacity Service (Cont'd)

	USOC	Monthly Rates	Nonrecurring Charges	
			1st	Add'l.
	CABS/CRIS			
(1) Channel Termination				
- Per point of termination (Cont'd)				
- 3 Year Term Plan [®] at an End User location	TMECS/T6XG3	140.00	None*	NA (N)
- 3 Year Term Plan [®] at an IC POT location	TMEPS/T6XL3	71.12	None*	NA (N)
- 5 Year Term [#] Plan at an End User location	TMECS/T6XG5	130.00	None*	NA
- 5 Year Term [#] Plan at an IC POT location	TMEPS/T6XL5	71.12	None*	NA

* For customers ordering a new DS1 service who choose a Term Payment Plan (TPP) period of 3 years of greater in length, the Nonrecurring Charge (NRC) will not apply for new service; however customers requesting termination of service prior to the completion of a minimum of 3 years or greater TPP will be liable for full payment of NRC charges at currently effective month-to-month rates.

As of November 1, 2013, Term Plan terms greater than 36 months are no longer available for new or renewing subscribers. (T)

@ As of January 15, 2021, 2- and 3-Year Term Plans are no longer available to new or renewing subscribers. (N)

Continued

ACCESS SERVICE

7. Special Access Service (cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-192 Dedicated SONET Ring Service

(A) Node - per Node

	USOC <u>CRIS/CABS</u>	<u>Monthly Rate</u>
<u>3 Year Term Plan</u>		
Customer Premises Node		
- First, 3 Year Plan	GP5++/GP5AX	\$ 22,000.00
- Additional, 3 Year Plan	GP5++/GP5AA	\$ 19,650.00
Central Office Node	GC5++/GP5AX	\$ 19,650.00

(D)
|
(D)

(D)
(D)

Continued

ACCESS SERVICE

7. Special Access Service (cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-192 Dedicated SONET Ring Service (Cont'd)

(A) Node - per Node (Cont'd)

	USOC <u>CRIS/CABS</u>	<u>Monthly Rate</u>
<u>5 Year Term Plan</u>		
Customer Premises Node		
- First, 5 Year Plan	GP5++/GP5AX	\$ 17,650.00
- Additional, 5 Year Plan	GP5++/GP5AA	\$ 15,700.00
Central Office Node	GC5++/GP5AX	\$ 15,700.00

(D)
|
(D)

(D)

(D)

Continued

ACCESS SERVICE

7. Special Access Service Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-192 Dedicated SONET Ring Service (Cont'd)

(B) Ports

(1) Per Node Type

3 year Plan

	USOC CRIS/CABS	Monthly Rate
- DS1 at OC-192 Node	S9QWX/S9QWX	\$ 50.00
- DS3 at OC-192 Node	S9QG3/S9QG3	120.00
- OC-3,OC-3c at OC-192 Node	S9NE3/S9NEX	150.00
- OC-12, OC-12c at OC-192 Node	S9NG3/S9NGX	375.00
- OC-48, OC-48c at OC-192 Node	S9NJ3/S9NJX	950.00
- 100 Mbps Ethernet (STS-1) at OC-192 Node [@]	S9TNX/S9TNX	145.00
- 100 Mbps Ethernet (STS-3c) at OC-192 Node [@]	S9TOX/S9TOX	180.00
- 1 Gbps Ethernet (STS-1) at OC-192 Node	S9TPX/S9TPX	250.00
- 1 Gbps Ethernet (STS-3c) at OC-192 Node	S9TQ3/S9TQX	250.00
- 1 Gbps Ethernet (STS-12c) at OC-192 Node	S9TR3/S9TRX	600.00
- 1 Gbps Ethernet (STS-24c) at OC-192 Node	S9TS3/S9TSX	900.00
- EC-1 Port* at OC-192 Node	S9TZX/S9TZX	120.00

(D)

(D)

* EC-1 Port offered as Customer Premises port termination, and as a CO termination where facilities and/operating conditions permit.

(D)

@ 100 Mbps Ethernet Port offering available where facilities and/operating conditions permit.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-192 Dedicated SONET Ring Service (Cont'd)

(B) Ports (Cont'd)

(1) Per Node Type (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Monthly Rate</u>
<u>3 year Plan</u> (Cont'd)		
- <u>10/100BaseT VCAT Ethernet</u> ^{*,#,@}	S5P1X/S5P1X	\$250.00
VT1.5-1v (1.6 Mbps)		
VT1.5-2v (3.2 Mbps)		
VT1.5-3v (4.8 Mbps)		
VT1.5-4v (6.4 Mbps)		
VT1.5-5v (8.0 Mbps)		
VT1.5-6v (9.6 Mbps)		
VT1.5-7v (11.2 Mbps)		
VT1.5-8v (12.4 Mbps)		
VT1.5-10v (16.0 Mbps)		
VT1.5-13v (20.8 Mbps)		
STS-1-1v (48.384 Mbps)		
STS-1-2v (96.768 Mbps)		
- <u>1000BaseSX VCAT Ethernet</u> ^{*,@}	S5P2X/S5P2X	425.00
- <u>1000BaseLX VCAT Ethernet</u> ^{*,@}	S5P3X/S5P3X	425.00
STS-1-1v (48.384 Mbps)		
STS-1-2v (96.768 Mbps)		
STS-1-3v (145.152 Mbps)		
STS-1-4v (193.536 Mbps)		
STS-1-5v (241.92 Mbps)		
STS-1-6v (290.304 Mbps)		
STS-1-9v (435.456 Mbps)		
STS-1-12v (580.608 Mbps)		
STS-1-21v (1016.064 Mbps)		
STS-3c-1v (149.76 Mbps)		
STS-3c-2v (299.52 Mbps)		
STS-3c-3v (449.28 Mbps)		
STS-3c-4v (599.04 Mbps)		
STS-3c-7v (1048.32 Mbps)		

* Actual Payload capacity for selected bandwidth. Only single-mode fiber is available in the Central Office. The EoS line rates defined herein are based on the theoretical SONET payload line rates as specified in Telcordia Publication GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit. (N)

EoS port interfaces offered as 10/100BaseT are only available at the customer premises location. (N)

@ Nonrecurring charges as set forth in 7.5.12, (H) (3) are applicable.

Continued

ACCESS SERVICE

7. Special Access Service Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-192 Dedicated SONET Ring Service (Cont'd)

(B) Ports (Cont'd)

(1) Per Node Type (Cont'd)

<u>5 year Plan</u>	<u>USOC CRIS/CABS</u>	<u>Monthly Rate</u>
- DS1 at OC-192 Node	S9QWX/S9QWX	\$ 45.00
- DS3 at OC-192 Node	S9QG5/S9QGX	110.00
- OC-3, OC-3c at OC-192 Node	S9NE5/SN9EX	135.00
- OC-12, OC-12c at OC-192 Node	S9NG5/SN9GX	360.00
- OC-48, OC-48c at OC-192 Node	S9NJ5/S9NJX	900.00
- 100 Mbps Ethernet (STS-1) at OC-192 Node ^e	S9TNX/S9TNX	130.00
- 100 Mbps Ethernet (STS-3c) at OC-192 Node ^e	S9TOX/S9TOX	160.00
- 1 Gbps Ethernet (STS-1) at OC-192 Node	S9TP5/S9TP5	200.00
- 1 Gbps Ethernet (STS-3c) at OC-192 Node	S9TQ5/S9TQX	200.00
- 1 Gbps Ethernet (STS-12c) at OC-192 Node	S9TR5/S9TRX	500.00
- 1 Gbps Ethernet (STS-24c) at OC-192 Node	S9TS5/S9TSX	850.00
- EC-1 Port* at OC-192 Node	S9TZX/S9TZX	110.00

(D)

(D)

* EC-1 Port offered as Customer Premises port termination, and as a CO termination where facilities and/operating conditions permit.

(D)

@ 100 Mbps Ethernet Port offering available where facilities and/operating conditions permit.

(D)

Continued

ACCESS SERVICE

7. Special Access Service Cont'd

7.5 Rates and Charges (Cont'd)

7.5.12 OC-192 Dedicated SONET Ring Service (Cont'd)

(B) Ports (Cont'd)

(1) Per Node Type (Cont'd)

<u>5 year Plan</u> (Cont'd)	<u>USOC CRIS/CABS</u>	<u>Monthly Rate</u>
- <u>10/100BaseT VCAT Ethernet</u> ^{*,#,@}	S5P1X/S5P1X	\$180.00
VT1.5-1v (1.6 Mbps)		
VT1.5-2v (3.2 Mbps)		
VT1.5-3v (4.8 Mbps)		
VT1.5-4v (6.4 Mbps)		
VT1.5-5v (8.0 Mbps)		
VT1.5-6v (9.6 Mbps)		
VT1.5-7v (11.2 Mbps)		
VT1.5-8v (12.4 Mbps)		
VT1.5-10v (16.0 Mbps)		
VT1.5-13v (20.80 Mbps)		
STS-1-1v (48.384 Mbps)		
STS-1-2v (96.768 Mbps)		
- <u>1000BaseSX VCAT Ethernet</u> ^{*,@}	S5P2X/S5P2X	350.00
- <u>1000BaseLX VCAT Ethernet</u> ^{*,@}	S5P3X/S5P3X	350.00
STS-1-1v (48.384 Mbps)		
STS-1-2v (96.768 Mbps)		
STS-1-3v (145.152 Mbps)		
STS-1-4v (193.536 mbps)		
STS-1-5v (241.92 Mbps)		
STS-1-6v (290.304 Mbps)		
STS-1-9v (435.456 Mbps)		
STS-1-12v (580.608 Mbps)		
STS-1-21v (1016.064 Mbps)		
STS-3c-1v (149.76 Mbps)		
STS-3c-2v (299.52 Mbps)		
STS-3c-3v (449.28 mbps)		
STS-3c-4v (599.04 Mbps)		
STS-3c-7v (1048.32 Mbps)		

* Actual Payload capacity for selected bandwidth. Only single-mode fiber is available in the Central Office. The EoS line rates defined herein are based on the theoretical SONET payload line rates as specified in Telcordia Publication GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.

EoS port interfaces offered as 10/100BaseT are only available at the customer premises location.

@ Nonrecurring charges as set forth in 7.5.12, (H) (3) are applicable.

(N)
 |
 (N)

Continued

ACCESS SERVICE

7. Special Access Service Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-192 Dedicated SONET Ring Service (Cont'd)

	USOC CRIS/CABS	<u>Monthly Rate</u>	(N)
(C) <u>Add/Drop Capability</u> *@			
Per Arrangement (per node) not to exceed any configurable combination of ports beyond 192 STS-1 equivalents			
3 Year Plan	MXR++/MXRGX	\$ 5,000.00	
5 Year Plan	MXR++/MXRGX	4,000.00	
Monthly Extension	MXR++/MXRGX	7,000.00	
(D) <u>Reserved</u>			

* Add/Drop charge is a monthly charge that commences with initial installation of node equipped with drop capacity. This charge is applied to all nodes, excluding regenerators.

@ Effective December 16, 2020, regarding Add/Drop capabilities, if the number (N) of ports falls below the minimum requirement per node, the customer must notify its Company account team/sales representative, in writing, to eliminate the charge. Upon receipt of the customer's notice and upon eligibility confirmation, the Company will remove the charge within two billing cycles. (N)

Continued

ACCESS SERVICE

7. Special Access Service Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-192 Dedicated SONET Ring Service (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Monthly Rate</u>	
(E) <u>Optical to Electrical Add/Drop Capability</u> *@			(N)
Per arrangement (per node) not to exceed any configurable combination of ports beyond 192 STS-1 equivalents			
3 Year Term	MXJG3/MXJG+	\$2,500.00	
5 Year Term	MXJG5/MXJG+	2,000.00	
Monthly Extension - per OC-3 to DS1	MXJGP/MXJG+	3,500.00	
3 Year Term	MXJDX/MXJDX	\$ 875.00	
5 Year Term	MXJDX/MXJDX	700.00	

* The Optical to Electrical Add/Drop Capability is in addition to the Add/Drop Capability charge set forth in (C) preceding.

@ Effective December 16, 2020, regarding Add/Drop capabilities, if the number of ports falls below the minimum requirement per node, the customer must notify its Company account team/sales representative, in writing, to eliminate the charge. Upon receipt of the customer's notice and upon eligibility confirmation, the Company will remove the charge within two billing cycles. (N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-192 Dedicated SONET Ring Service (Cont'd)

	USOC CRIS/CABS	<u>Monthly Rate</u>	
(F) <u>Mileage*</u>			(T)
- 3 Year Plan Per Mile between nodes	1YA++	\$ 260.00	
- 5 Year Plan Per mile between nodes*	1YA++	220.00	
- Monthly Extension Per mile between nodes*	1YA++	330.00	
(G) <u>Ring Regenerator</u>			(T)
Each (as required)			
- 3 Year Plan	RGY++	9,250.00	
- 5 Year Plan	RGY++	7,400.00	
- Monthly Extension	RGY++	13,875.00	

* A two-node ring configuration has a two-mile minimum, one mile from the CO node to the customer premise node, and one mile from the customer premise node to the CO node. (T)
 (T)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.14 Optical Carrier Network (OCN) Point-to-Point Service

(A) OC-3/OC-3c

(1) Channel Termination/Local Distribution Channel
 per Point of Termination

	<u>USOC</u>	<u>Monthly Rate</u>	
	<u>CABS/CRIS</u>		
3 Year Plan	TMECS/TMECS	\$1,700.00	
5 Year Plan*	TMECS/TMECS	1,300.00	(N)
Monthly Extension	TMECS/TEMCS	2,275.00	

(2) Mileage/Interoffice
 Transport

(a) Fixed

	<u>CABS/CRIS</u>		
3 Year Plan			
0	NA	NA	
Over 0	1L5XX/1L5XS	\$975.00	
5 Year Plan*			(N)
0	NA	NA	
Over 0	1L5XX/1L5XS	\$886.00	
Monthly Extension			
0	NA	NA	
Over 0	1L5XX/1L5XS	\$1,550.00	

(b) Per Mile (Variable)

	<u>CABS/CRIS</u>		
3 Year Plan			
0	NA	NA	
Over 0	1L5XX/1L5XS	\$260.00	
5 Year Plan*			(N)
0	NA	NA	
Over 0	1L5XX/1L5XS	\$220.00	
Monthly Extension			
0	NA	NA	
Over 0	1L5XX/1L5XS	\$350.00	

* As of November 1, 2013, Term Pricing Plan terms greater than 36 months are no longer available for new or renewing subscribers. (N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service

(A) Node

- Per Node

	<u>USOC</u> <u>CABS/CRIS</u>	<u>Monthly</u> <u>Rate</u>
(1) <u>OC-3</u>		
- <u>Customer Premises Node, first</u>		
36 month	FP5CX/FP5CX	\$ 1,770.00
60 month	FP5CX/FP5CX	1,415.00
Monthly Extension	FP5CX/FP5CX	2,120.00
- <u>Customer Premises Node, additional</u>		
36 month	FP5CA/FP5CA	1,000.00
60 month	FP5CA/FP5CA	800.00
Monthly Extension	FP5CA/FP5CA	1,200.00
- <u>Central Office Node</u>		
36 month	FC5CX/FC5CX	1,000.00
60 month	FC5CX/FC5CX	800.00
Monthly Extension	FC5CX/FC5CX	1,200.00

(D)

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(D)

(D)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(A) Node (Cont'd)

- Per Node

	<u>USOC</u> <u>CABS/CRIS</u>	<u>Monthly</u> <u>Rate</u>
(2) <u>OC-12</u>		
- <u>Customer Premises Node, first</u>		
36 month	FP5DX/FP5DX	\$ 3,850.00
60 month	FP5DX/FP5DX	3,080.00
Monthly Extension	FP5DX/FP5DX	4,620.00
- <u>Customer Premises Node, additional</u>		
36 month	FP5DA/FP5DA	2,620.00
60 month	FP5DA/FP5DA	2,095.00
Monthly Extension	FP5DA/FP5DA	3,140.00
- <u>Central Office Node</u>		
36 month	FC5DX/FC5DX	2,620.00
60 month	FC5DX/FC5DX	2,095.00
Monthly Extension	FC5DX/FC5DX	3,140.00

(D)

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(D)

(D)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(A) Node (Cont'd)

- Per Node

<u>(3) OC-48</u>	<u>USOC</u> <u>CABS/CRIS</u>	<u>Monthly</u> <u>Rate</u>
- <u>Customer Premises Node, first</u>		
36 month	FP5EX/FP5EX	\$ 5,890.00
60 month	FP5EX/FP5EX	4,725.00
Monthly Extension	FP5EX/FP5EX	7,070.00
- <u>Customer Premises Node, additional</u>		
36 month	FP5EA/FP5EA	5,240.00
60 month	FP5EA/FP5EA	4,190.00
Monthly Extension	FP5EA/FP5EA	6,280.00
- <u>Central Office Node</u>		
36 month	FC5EX/FC5EX	5,240.00
60 month	FC5EX/FC5EX	4,190.00
Monthly Extension	FC5EX/FC5EX	6,280.00

(D)

(D)

(D)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(A) Node (Cont'd)

(4) Flex Ring Nodes

	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>	
(a) <u>OC-12</u>			
- <u>Central Office Node, for Second Ring on existing SONET Shelf</u>			
36 month	GC5FX/GC5FX	\$1,850.00	
60 month	GC5FX/GC5FX	1,500.00	
Monthly Extension	GC5FX/GC5FX	2,200.00	
- <u>Customer Prem Node, for Second Ring on existing SONET Shelf</u>			
36 month	GP5FX/GP5FX	2,200.00	(R)
60 month	GP5FX/GP5FX	1,800.00	
Monthly Extension	GP5FX/GP5FX	2,900.00	(R)
(b) <u>OC-48</u>			
- <u>Central Office Node, for Second Ring on existing SONET shelf</u>			
36 month	GC5GX/GC5GX	3,500.00	
60 month	GC5GX/GC5GX	2,800.00	
Monthly Extension	GC5GX/GC5GX	4,100.00	
- <u>Customer Prem Node, for Second Ring on existing SONET shelf</u>			
36 month	GP5GX/GP5GX	3,900.00	
60 month	GP5GX/GP5CX	3,000.00	
Monthly Extension	GP5GX/GP5GX	4,500.00	

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(B) OC-48 Add/Drop Capability*

(N)

<u>- per arrangement</u>	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>
36 month	MPEFX/MPEFX	\$ 3,510.00
60 month	MPEFX/MPEFX	2,895.00
Monthly Extension	MPEFX/MPEFX	4,350.00

*Effective December 16, 2020, regarding Add/Drop capabilities, if the number of ports falls below the minimum requirement per node, the customer must notify its Company account team/sales representative, in writing, to eliminate the charge. Upon receipt of the customer's notice and upon eligibility confirmation, the Company will remove the charge within two billing cycles.

(N)

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(C) Ports

	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>	
(1) <u>Per port, at OC-3 Node</u>			(D)
- <u>1.544 Mbps (DS1) at OC3 Node</u>			
36 Month	SPRAX/SPRAX	\$ 50.00	
60 Month	SPRAX/SPRAX	45.00	
Monthly Extension	SPRAX/SPRAX	65.00	
- <u>45 Mbps (DS3) at OC-3 Node</u>			
36 Month	SPRBX/SPRBX	120.00	
60 Month	SPRBX/SPRBX	110.00	
Monthly Extension	SRPBX/SPRBX	150.00	
- <u>100 Mbps Ethernet (STS-1) at OC-3 Node</u>			
36 Month	S9TAX/S9TAX	145.00	
60 Month	S9TAX/S9TAX	130.00	
Monthly Extension	S9TAX/S9TAX	225.00	
			(D)
			(D)
- <u>EC-1 Port*</u> <u>at OC-3 Node</u>			
36 Month	S9NSX/S4NHX	120.00	
60 Month	S9NSX/S4NHX	110.00	
Monthly Extension	S9NSX/S4NHX	150.00	

* EC-1 Port offered as Customer Premises termination and as a CO termination where facilities and/or operating conditions permit.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(C) Ports (Cont'd)

	USOC CABS/CRIS	Monthly Rate	(D)
(1) <u>Per port, at OC-3 Node</u> (Cont'd)			

- <u>10/100BaseT VCAT Ethernet</u> ^{*, #, @}			
36 Month	S5P1X/S5P1X	\$ 250.00	
60 Month	S5P1X/S5P1X	180.00	
Monthly Extension	S5P1X/S5P1X	350.00	
VT1.5-1v (1.6 Mbps)			
VT1.5-2v (3.2 Mbps)			
VT1.5-3v (4.8 Mbps)			
VT1.5-4v (6.4 Mbps)			
VT1.5-5v (8.0 Mbps)			
VT1.5-6v (9.6 Mbps)			
VT1.5-7v (11.2 Mbps)			
VT1.5-8v (12.4 Mbps)			
VT1.5-10v (16.0 Mbps)			
VT1.5-13v (20.8 Mbps)			
STS-1-1v (48.384 Mbps)			
STS-1-2v (96.768 Mbps)			

* Actual Payload capacity for selected bandwidth. Only single-mode fiber is available in the Central Office. The EoS line rates defined herein are based on the theoretical SONET payload line rates as specified in Telcordia Publication GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.

EoS port interfaces offered as 10/100BaseT are only available at the customer premises location.

@ Nonrecurring charges as set forth in 7.5.15(H) (4) are applicable.

(D)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(C) Ports (Cont'd)

	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>	
(1) <u>Per port, at OC-3 Node</u> (Cont'd)			(D)
- <u>1000BaseSX VCAT Ethernet*, @</u>			
36 Month	S5P2X/S5P2X	\$ 425.00	
60 Month	S5P2X/S5P2X	350.00	
Monthly Extension	S5P2X/S5P2X	500.00	
- <u>1000BaseLX VCAT Ethernet*, @</u>			
36 Month	S5P3X/S5P3X	\$ 425.00	
60 Month	S5P3X/S5P3X	350.00	
Monthly Extension	S5P3X/S5P3X	500.00	
STS-1-1v (48.384 Mbps)			
STS-1-2v (96.768 Mbps)			
STS-1-3v (145.152 Mbps)			
STS-1-4v (193.536 mbps)			
STS-1-5v (241.92 Mbps)			
STS-1-6v (290.304 Mbps)			
STS-1-9v (435.456 Mbps)			
STS-1-12v (580.608 Mbps)			
STS-1-21v (1016.064 Mbps)			
STS-3c-1v (149.76 Mbps)			
STS-3c-2v (299.52 Mbps)			
STS-3c-3v (449.28 mbps)			
STS-3c-4v (599.04 Mbps)			
STS-3c-7v (1048.32 Mbps)			

* Actual Payload capacity for selected bandwidth. Only single-mode fiber is available in the Central Office. The EoS line rates defined herein are based on the theoretical SONET payload line rates as specified in Telcordia Publication GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.

@ Nonrecurring charges as set forth in 7.5.15(H) (4) are applicable.

(D)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(C) Ports (Cont'd)

	USOC CABS/CRIS	Monthly Rate
(2) <u>Per port, at OC-12 Node</u>		
(D)		
- <u>1.544 Mbps (DS1) at OC-12 Node^{*,#}</u>		
36 month	SPRGX/SPRGX	\$ 50.00
60 month	SPRGX/SPRGX	45.00
Monthly Extension	SPRGX/SPRGX	65.00
- <u>45 Mbps (DS3) at OC-12 Node</u>		
36 month	SPRCX/SPRCX	120.00
60 month	SPRCX/SPRCX	110.00
Monthly Extension	SPRCX/SPRCX	150.00
- <u>155.5 Mbps (OC-3, OC-3c) at OC-12 Node</u>		
36 month	SPREX/SPREX	150.00
60 month	SPREX/SPREX	135.00
Monthly Extension	SPREX/SPREX	190.00
- <u>100 Mbps Ethernet (STS-1) at OC-12 Node[@]</u>		
36 month	S9TBX/S9TBX	145.00
60 month	S9TBX/S9TBX	130.00
Monthly Extension	S9TBX/S9TBX	225.00
- <u>100 Mbps Ethernet (STS-3c) at OC-12 Node[@]</u>		
36 month	S9TCX/S9TCX	180.00
60 month	S9TCX/S9TCX	160.00
Monthly Extension	S9TCX/S9TCX	280.00

* Optical to Electrical DS1 Add/Drop capability as described in Section 7.2.15, (A) (5) is required with an OC-3 port.

The Optical to Electrical DS1 Add/Drop capability rate element is applicable when the 85th DS1 port is applied per OC-12 Node.

@ Where facilities and/or operating conditions permit.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(C) Ports (Cont'd)

	USOC CABS/CRIS	Monthly Rate
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(2) Per port, at OC-12 Node (Cont'd)

(D)

- 1 Gbps Ethernet (STS-1)
at OC-12 Node

36 Month	S9TDX/S9TDX	\$ 250.00
60 Month	S9TDX/S9TDX	200.00
Monthly Extension	S9TDX/S9TDX	350.00

- 1Gbps Ethernet (STS-3c)
at OC-12 Node

36 Month	S9TEX/S9TEX	250.00
60 Month	S9TEX/S9TEX	200.00
Monthly Extension	S9TEX/S9TEX	350.00

(D)

(D)

- EC-1 Port
at OC-12 Node*

36 Month	S9NUX/S4NJX	120.00
60 Month	S9NUX/S4NJX	110.00
Monthly Extension	S9NUX/S4NJX	150.00

* EC-1 Port offered as Customer Premises termination and as a CO termination where facilities and/or operating conditions permit.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(C) Ports (Cont'd)

	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>	
(2) <u>Per port, at OC-12 Node</u> (Cont'd)			(D)
- <u>10/100BaseT VCAT Ethernet</u> ^{*, #, @}			
36 Month	S5P1X/S5P1X	\$ 250.00	
60 Month	S5P1X/S5P1X	180.00	
<u>Monthly Extension</u>	S5P1X/S5P1	350.00	
VT1.5-1v (1.6 Mbps)			
VT1.5-2v (3.2 Mbps)			
VT1.5-3v (4.8 Mbps)			
VT1.5-4v (6.4 Mbps)			
VT1.5-5v (8.0 Mbps)			
VT1.5-6v (9.6 Mbps)			
VT1.5-7v (11.2 Mbps)			
VT1.5-8v (12.4 Mbps)			
VT1.5-10v (16.0 Mbps)			
VT1.5-13v (20.8 Mbps)			
STS-1-1v (48.384 Mbps)			
STS-1-2v (96.768 Mbps)			

* Actual Payload capacity for selected bandwidth. Only single-mode fiber is available in the Central Office. The EoS line rates defined herein are based on the theoretical SONET payload line rates as specified in Telcordia Publication GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.

EoS port interfaces offered as 10/100BaseT are only available at the customer premises location.

@ Nonrecurring charges as set forth in 7.5.15, (H) (4) are applicable.

(D)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(C) Ports (Cont'd)

	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>	
(2) <u>Per port, at OC-12 Node</u> (Cont'd)			(D)
- <u>1000BaseSX VCAT Ethernet</u> *, @			
36 Month	S5P2X/S5P2X	\$ 425.00	
60 Month	S5P2X/S5P2X	350.00	
Monthly Extension	S5P2X/S5P2X	500.00	
- <u>1000BaseLX VCAT Ethernet</u> *, @			
36 Month	S5P3X/S5P3X	\$ 425.00	
60 Month	S5P3X/S5P3X	350.00	
Monthly Extension	S5P3X/S5P3X	500.00	
STS-1-1v (48.384 Mbps)			
STS-1-2v (96.768 Mbps)			
STS-1-3v (145.152 Mbps)			
STS-1-4v (193.536 mbps)			
STS-1-5v (241.92 Mbps)			
STS-1-6v (290.304 Mbps)			
TS-1-9v (435.456 Mbps)			
STS-1-12v (580.608 Mbps)			
STS-1-21v (1016.064 Mbps)			
STS-3c-1v (149.76 Mbps)			
STS-3c-2v (299.52 Mbps)			
STS-3c-3v (449.28 mbps)			
STS-3c-4v (599.04 Mbps)			
STS-3c-7v (1048.32 Mbps)			

* Actual Payload capacity for selected bandwidth. Only single-mode fiber is available in the Central Office. The EoS line rates defined herein are based on the theoretical SONET payload line rates as specified in Telcordia Publication GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.

@ Nonrecurring charges as set forth in 7.5.15, (H) (4) are applicable.

(D)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(C) Ports (Cont'd)

	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>	(D)
(3) <u>Per port, at OC-48 Node</u>			
- <u>1.544 Mbps (DS1) at OC-48 Node</u>			
36 month	SPRLX/SPRLX	\$ 50.00	
60 month	SPRLX/SPRLX	45.00	
Monthly Extension	SPRLX/SPRLX	65.00	
- <u>45 Mbps (DS3) at OC-48 Node*</u>			
36 month	SPRKX/SPRKX	120.00	
60 month	SPRKX/SPRKX	110.00	
Monthly Extension	SPRKX/SPRKX	150.00	
- <u>155.5 Mbps (OC3, OC-3c) at OC-48 Node</u>			
36 month	SPRJX/SPRJX	150.00	
60 month	SPRJX/SPRJX	135.00	
Monthly Extension	SPRJX/SPRJX	190.00	
- <u>622 Mbps (OC-12, OC-12c) at OC-48 Node</u>			
36 month	SPRHX/SPRHX	375.00	
60 month	SPRHX/SPRHX	360.00	
Monthly Extension	SPRHX/SPRHX	475.00	
- <u>100 Mbps Ethernet (STS-1) at OC-48 Node#</u>			
36 month	S9TGX/S9TGX	145.00	
60 month	S9TGX/S9TGX	130.00	
Monthly Extension	S9TGX/S9TGX	225.00	
- <u>100 Mbps Ethernet (STS-3c) at OC-48 Node#</u>			
36 month	S9THX/S9THX	180.00	
60 month	S9THX/S9THX	160.00	
Monthly Extension	S9THX/S9THX	280.00	
- <u>1 Gbps Ethernet (STS-1) at OC-48 Node</u>			
36 month	S9TJX/S9TJX	250.00	
60 month	S9TJX/S9TJX	200.00	
Monthly Extension	S9TJX/S9TJX	350.00	

* For OC-48 SONET Rings, the Add/Drop capability rate element is applicable only once and only when the 25th DS3 port is applied per Node.
 # Where facilities and/or operating conditions permit.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(C) Ports (Cont'd)

	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>
--	---------------------------	-------------------------

(3) Per port, at OC-48 Node (Cont'd)

(D)

- 1 Gbps Ethernet (STS-3c)
at OC-48 Node

36 month	S9TKX/S9TKX	\$ 250.00
60 month	S9TKX/S9TKX	200.00
Monthly Extension	S9TKX/S9TKX	350.00

- 1 Gbps Ethernet (STS-12c)
at OC-48 Node

36 month	S9TLX/S9TLX	600.00
60 month	S9TLX/S9TLX	500.00
Monthly Extension	S9TLX/S9TLX	875.00

- 1 Gbps Ethernet (STS-24c)
at OC-48 Node

36 month	S9TMX/S9TMX	900.00
60 month	S9TMX/S9TMX	850.00
Monthly Extension	S9TMX/S9TMX	1,500.00

(D)

(D)

- EC-1 Port
at OC-48 Node*

36 Month	S9NVX/S4NKX	120.00
60 Month	S9NVX/S4NKX	110.00
Monthly Extension	S9NVX/S4NKX	150.00

* EC-1 Port offered as Customer Premises termination and as a CO termination where facilities and/or operating conditions permit.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(C) Ports (Cont'd)

	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>
(3) <u>Per port, at OC-48 Node</u> (Cont'd)		
		(D)
- <u>10/100BaseT VCAT Ethernet*,#,@</u>		
<u>36 Month</u>	S5P1X/S5P1X	\$ 250.00
<u>60 Month</u>	S5P1X/S5P1X	180.00
<u>Monthly Extension</u>	S5P1X/S5P1X	350.00
VT1.5-1v (1.6 Mbps)		
VT1.5-2v (3.2 Mbps)		
VT1.5-3v (4.8 Mbps)		
VT1.5-4v (6.4 Mbps)		
VT1.5-5v (8.0 Mbps)		
VT1.5-6v (9.6 Mbps)		
VT1.5-7v (11.2 Mbps)		
VT1.5-8v (12.4 Mbps)		
VT1.5-10v (16.0 Mbps)		
VT1.5-13v (20.8 Mbps)		
STS-1-1v (48.384 Mbps)		
STS-1-2v (96.768 Mbps)		

* Actual Payload capacity for selected bandwidth. Only single-mode fiber is available in the Central Office. The EoS line rates defined herein are based on the theoretical SONET payload line rates as specified in Telcordia Publication GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.
 # EoS port interfaces offered as 10/100BaseT are only available at the customer premises location.
 @ Nonrecurring charges as set forth in 7.5.15(H) (4) are applicable.

(D)
 Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(C) Ports (Cont'd)

	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>	
(3) <u>Per port, at OC-48 Node</u> (Cont'd)			(D)
- <u>1000BaseSX VCAT Ethernet*,@</u>			
36 Month	S5P2X/S5P2X	\$425.00	
60 Month	S5P2X/S5P2X	350.00	
Monthly Extension	S5P2X/S5P2X	500.00	
- <u>1000BaseLX VCAT Ethernet*,@</u>			
36 Month	S5P3X/S5P3X	\$425.00	
60 Month	S5P3X/S5P3X	350.00	
Monthly Extension	S5P3X/S5P3X	500.00	
STS 1-1v (48.384 Mbps)			
STS 1-2v (96.768 Mbps)			
STS 1-3v (145.152 Mbps)			
STS-1-4v (193.536 mbps)			
STS-1-5v (241.92 Mbps)			
STS-1-6v (290.304 Mbps)			
STS-1-9v (435.456 Mbps)			
STS-1-12v (580.608 Mbps)			
STS-1-21v (1016.064 Mbps)			
STS-3c-1v (149.76 Mbps)			
STS-3c-2v (299.52 Mbps)			
STS-3c-3v (449.28 mbps)			
STS-3c-4v (599.04 Mbps)			
STS-3c-7v (1048.32 Mbps)			

* Actual Payload capacity for selected bandwidth. Only single-mode fiber is available in the Central Office. The EoS line rates defined herein are based on the theoretical SONET payload line rates as specified in Telcordia Publication GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.

@ Nonrecurring charges as set forth in 7.5.15(H) (4) are applicable.

(D)
Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(C) Ports (Cont'd)

	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>	(D)
(D) <u>Transmux</u>			(D)
- <u>DS3 Port with Transmux, per port on OC-3, OC-12</u>			
36 Month	S4NGX/S4NGX	\$ 450.00	
60 Month	S4NGX/S4NGX	350.00	
Monthly Extension	S4NGX/S4NGX	575.00	

- <u>DS3 Port with Transmux, per port on OC-48</u>			(D)
36 Month	S4NGX/S4NGX	\$ 550.00	
60 Month	S4NGX/S4NGX	450.00	
Monthly Extension	S4NGX/S4NGX	575.00	

(E) Optical to Electrical Add/Drop Capability

- <u>per OC-3 to DS1 Add/Drop, once per arrangement</u> #, @			(T)
36 month	MXJDX/MXJDX	875.00	
60 month	MXJDX/MXJDX	700.00	
Monthly Extension	MXJDX/MXJDX	1,050.00	

The Optical-to-Electrical DS1 Add/Drop capability rate element is applicable when the 85th DS1 port is applied per OC-12 Node.

@ Optical to Electrical DS1 Add/Drop capability as described in Section 7.2.15, (A) (6) is required with an OC-3 Port.

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(F) Mileage

<u>Mileage Bands</u>	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>		(T) (L)
		<u>Fixed</u>	<u>Per Mile</u>	
<u>OC- 3</u>				
36 Month Term				
0 Miles	1YAZX/1YAZ3	None	None	
Over 0 Miles	1YAZX/1YAZ3	None	\$260.00	
60 Month Term				
0 Miles	1YAZX/1YAZ5	None	None	
Over 0 Miles	1YAZX/1YAZ5	None	\$220.00	(T)
Monthly Extension Rate				
0 Miles	1YAZX/1YAZM	None	None	
Over 0 Miles	1YAZX/1YAZM	None	\$330.00	(T)
<u>OC- 12</u>				
36 Month Term				
0 Miles	1YAZX/1YAZ3	None	None	
Over 0 Miles	1YAZX/1YAZ3	None	\$260.00	(T)
60 Month Term				
0 Miles	1YAZX/1YAZ5	None	None	
Over 0 Miles	1YAZX/1YAZ5	None	\$220.00	(T)
Monthly Extension Rate				
0 Miles	1YAZX/1YAZM	None	None	
Over 0 Miles	1YAZX/1YAZM	None	\$330.00	(T)
<u>OC- 48</u>				
36 Month Term				
0 Miles	1YAZX/1YAZ3	None	None	
Over 0 Miles	1YAZX/1YAZ3	None	\$260.00	(T)
60 Month Term				
0 Miles	1YAZX/1YAZ5	None	None	
Over 0 Miles	1YAZX/1YAZ5	None	\$220.00	(T)
Monthly Extension Rate				
0 Miles	1YAZX/1YAZM	None	None	
Over 0 Miles	1YAZX/1YAZM	None	\$330.00	(T) (L)

(L) Material formerly located on Sheet 338-Z-21.

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

(G) Regenerator

(T) (L)

	USOC CABS/CRIS	Monthly Rate	
- <u>OC-3</u>			
36 month	RGY/RGYS3	\$ 1,000.00	
60 month	RGY/RGYS5	800.00	
Monthly Extension	RGY/RGYSM	1,200.00	
- <u>OC-12</u>			
36 month	RGY/RGYS3	2,620.00	
60 month	RGY/RGYS5	2,095.00	
Monthly Extension	RGY/RGYSM	3,140.00	
- <u>OC-48</u>			
36 month	RGY/RGYS3	3,275.00	
60 month	RGY/RGYS5	2,620.00	
Monthly Extension	RGY/RGYSM	3,930.00	(L)

Nonrecurring
Charge

(D) (L) x
 (D)
 (T)

(H) Non-Recurring Charges

(1) Administrative Charge, per order

OC-3 Dedicated Ring	ORCMX/ORCMX	\$ 50.00	
OC-12 Dedicated Ring	ORCMX/ORCMX	50.00	
OC-48 Dedicated Ring	ORCMX/ORCMX	50.00	

(2) Design and Central Office
 Connection Charge, per circuit*

OC-3 Dedicated Ring	NRMCK/NRBCL	600.00	(T)
OC-12 Dedicated Ring	NRMCK/NRBCL	600.00	
OC-48 Dedicated Ring	NRMCK/NRBCL	600.00	(L) x

* Per circuit is applied once per the total original Ring design.

(L) x

(L) Material formerly located on Sheet 338-Z-22.

(N)

(L)x Material formerly located on Sheet 338-Z-23.

|

Material omitted now located on Sheet 338-Z-27.

(N)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

	<u>USOC CABS/CRIS</u>	<u>Nonrecurring Charges</u>	
(H) <u>Non-Recurring Charges</u> (Cont'd)			
(4) <u>Ports*</u>			
<u>Per port, at OC-3 Node</u>			
- 1.544 Mbps (DS1) at OC-3 Node, per subsequent installation	NRBSY/NRBSY	\$ 350.00	
- 45 Mbps (DS3/DS3 with Transmux) at OC-3 Node, per subsequent installation	NRBSX/NRBSX	385.00	
- 100 Mbps Ethernet (STS-1) at OC-3 Node, per subsequent installation	NRM63/NRBY4	215.00	(D)
- EC-1 port at OC-3 Node, per subsequent installation [#]	NRBSX/NRBSX	385.00	(T)

* Applicable to 36 Month, 60 Month and Monthly Extension Term Plans.

EC-1 Port offered as Customer Premises termination and as a CO termination where facilities and/or operating conditions permit. (D) (T)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

	<u>USOC CABS/CRIS</u>	<u>Nonrecurring Charges</u>	
(H) <u>Non-Recurring Charges</u> (Cont'd)			
(4) <u>Ports*</u> (Cont'd)			
<u>Per port, at OC-12 Node</u>			
- 1.544 Mbps (DS1) at OC-12 Node, per subsequent installation	NRBSY/NRBSY	\$350.00	
- 45 Mbps (DS3/DS3 w/Transmux) at OC-12 Node, per subsequent installation	NRBSX/NRBSX	385.00	
- 155.5 Mbps (OC-3, OC-3c) at OC-12 Node, per subsequent installation	NRBSW/NRBSW	400.00	
- 100 Mbps Ethernet (STS-1) at OC-12 Node, per subsequent installation	NRM63/NRBY4	215.00	(D)
- 100 Mbps Ethernet (STS-3c) at OC-12 Node, per subsequent installation	NRM64/NRBY4	215.00	(D)
- 1 Gbps Ethernet (STS-1) at OC-12 Node, per subsequent installation	NRM65/NRBY5	215.00	(D)
- 1 Gbps Ethernet (STS-3c) at OC-12 Node, per subsequent installation	NRM66/NRBY5	215.00	(D)
- EC-1 port at OC-12 Node, per subsequent installation#	NRBSX/NRBSX	385.00	(T)

* Applicable to 36 Month, 60 Month and Monthly Extension Term Plans.

EC-1 Port offered as Customer Premises termination and as a CO termination where facilities and/or operating conditions permit. (D) (T)

Continued

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.15 OC-3, OC-12, OC-48 Dedicated SONET Ring Service (Cont'd)

	<u>USOC CABS/CRIS</u>	<u>Nonrecurring Charges</u>	
(H) <u>Non-Recurring Charges (Cont'd)</u>			
(4) <u>Ports* (Cont'd)</u>			
<u>Per port, at OC-48 Node</u>			
- 1.544 Mbps (DS1) at OC-48 Node, per subsequent installation	NRBSY/NRBSY	\$350.00	
- 45 Mbps (DS3) at OC-48 Node, per subsequent installation	NRBSX/NRBSX	385.00	
- 45 Mbps (DS3) Transmux at OC-48 Node, per subsequent installation	NRBSX/NRBSX	385.00	
- 155.5 Mbps (OC3, OC-3c) at OC-48 Node, per subsequent installation	NRBSW/NRBSW	400.00	
- 622 Mbps (OC-12, OC-12c) at OC-48 Node, per subsequent installation	NRBSZ/NRBSZ	400.00	
- 100 Mbps Ethernet (STS-1) at OC-48 Node, per subsequent installation	NRM63/NRBY4	215.00	(D)
- 100 Mbps Ethernet (STS-3c) at OC-48 Node, per subsequent installation	NRM64/NRBY4	215.00	(D)
- 1 Gbps Ethernet (STS-1) at OC-48 Node, per subsequent installation	NRM65/NRBY5	215.00	(D)
- 1 Gbps Ethernet (STS-3c) at OC-48 Node, per subsequent installation	NRM66/NRBY5	215.00	(D)
- 1 Gbps Ethernet (STS-12c) at OC-48 Node, per subsequent installation	NRM67/NRBY5	215.00	(D)
- 1 Gbps Ethernet (STS-24c) at OC-48 Node, per subsequent installation	NRM68/NRBY5	215.00	(D)
- EC-1 port at OC-48 Node, per subsequent installation [#]	NRBSX/NRBSX	385.00	(T)

* Applicable to 36 Month, 60 Month and Monthly Extension Term Plans.

EC-1 Port offered as Customer Premises termination and as a CO termination where facilities and/or operating conditions permit.

Continued

