
ACCESS SERVICE

20. Ethernet Private Line**(A) General**

This section contains the rules and regulations pertaining to the provisioning of SONET Access and Dense Wave Division Multiplexing (DWDM) Service. The regulations and rates specified herein are in addition to the applicable rates and regulations specified in other Sections of this tariff.

This service supports asynchronous bandwidth capacities at 1.5 Mbps and 45 Mbps in addition to synchronous Optical Carrier (OC) bandwidth capacities at OC3, OC3c, OC12, OC12c, OC48, OC48c and OC192 bit rates and 1.25 Gbps or 2.5 Gbps wavelengths. The SONET add/drop multiplexer aggregates lesser bit speed services onto the dedicated SONET ring or the two-point SONET circuit configuration.

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20. Ethernet Private Line (Cont'd)**(B) Description**

Ethernet Private Line is comprised of high speed SONET based and/or Dense Wave Division Multiplexing (DWDM) technology providing connectivity at, and transport between, two or more customer designated locations (CDLs). Additionally, certain Ethernet Private Line services provide connectivity between a customer designated location and a wire center where connection to an advanced data service[#] occurs.

(C) Conditions

Ethernet Private Line services are provided where facilities are available with sufficient bandwidth capacity to meet the customers request.

The customer is responsible for providing all facilities and cabling necessary to connect customer equipment to this interface.

Customer Facility Assignment (CFA) is controlled by the Telephone Company, on all non-interexchange access customer serving wire centers on the IOF and extends to the terminating CDL. Should the customer require control of the facility assignment and order multiplexing on the IOF, the services from the multiplexer to the end user serving wire center will be ordered from Section 7 of this tariff.

[#] Advanced data services include Telephone Company provided frame relay services, switched multi-megabit services, Internet Protocol services and ATM-cell relay services. Connections to advanced data services are provided by the Telephone Company where such connections are technically and operatoinally feasible, as determined by the Telephone Company.

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20. Ethernet Private Line (Cont'd)**20.3****(C) Conditions (Cont'd)**

It is the customer's responsibility to ensure that the customer's equipment provides industry standard electrical signals compatible with Ethernet Private Line transport transmission. Technical specifications are contained in the following Technical References:

GR-253-CORE, Issue 4
GR-1400-CORE, Issue 3
GR-1374-CORE, Issue 1
ANSI T1.105.01-2000 (R2005)
ANSI T1.102-1993 (R2005)

The Company will work cooperatively with the customer during a planning session to insure that the customer orders sufficient Ethernet Private Line bandwidth capacity to satisfy the customer's requirements as well as other applicable Ethernet Private Line services. This planning session must take place prior to an initial Ethernet Private Line ASR.

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20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges**

The Connect rate element provides the platform for customer access to the Telephone Company's Optical Network. The Connect element provides the link between the CDL and the SWC of the CDL.

(1) There are three types of Connects:

- Express Connect
- Flex Express Connect
- Custom Connect#
-
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(a) Reserved for Future Use

(b) Reserved for Future Use

(c) Reserved for Future Use

Service availability limited. Refer to # footnote on Page 20-10.

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20. **Ethernet Private Line** (Cont'd)

(D) Application of Rates and Charges (Cont'd)

(g) Reserved for Future Use

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20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges (Cont'd)****(h) Express Connect #**

The Express Connect provides a connection to the Telephone Company's Ethernet Private Line wire center(s) via a ring topology consisting of three nodes, one of which must be a Telephone Company wire center. When two of the nodes are customer designated locations, both must be served by the same serving wire center and only one customer location can be without an Express Connect CDL Node. The Express Connect is provided at a bandwidth of OC3, OC12 or OC48 and may be ordered under a one (1) year, three (3) year, five (5) year or seven (7) year Term Payment Plan (TPP).

The Express Connect has three rate elements, a "First System" with optional "Additional System(s) and Additional Express Nodes." The customer may order up to three "Additional Systems" of OC3, OC12 or OC48 bandwidth not to exceed OC12, OC48 or OC192 bandwidth capacity, respectively. Rider charges for Express Connect are included in its monthly rate.

The customer may subscribe to Custom Connect Shared Transport, Custom Connect Dedicated Transport or Banded Optical Transport with Express Connect.

The customer may also subscribe to Telephone Company provided banded SONET transport with Express Connect, provided that such connections are technically and operationally feasible, as determined by the Telephone Company.

Effective August 15, 2009, orders for new Express Connect First Systems, Additional CDL Nodes, and/or Additional CO Nodes are no longer permitted. The Telephone Company will continue to provide Express Connect pursuant to this Section 20 on any existing Express Connect that is in-service as of August 15, 2009, or any order for Express Connect that is placed with the Telephone Company prior to August 15, 2009, (collectively, Existing Express Connect). Changes in bandwidth capacity, moves, and/or rearrangements are not permitted.

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20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges (Cont'd)****(i) Flex Express Connect #**

The Flex Express Connect provides a connection to the Telephone Company's Ethernet Private Line wire center(s) via ring topology with a minimum of four nodes, two of which must be Telephone Company wire centers. When two or more of the nodes are customer designated locations, only one of those nodes may be without electronics. The Flex Express Connect is provided at a bandwidth of OC3, OC12 or OC48.

Flex Express Connect is comprised of four rate elements, a "First System" with optional "Additional System(s)", Additional Flex Nodes and Flex Express Transport. The customer may order up to three "Additional System(s) of OC3, OC12 or OC48 bandwidth not to exceed OC12, OC48 or OC192 bandwidth capacity, respectively.

Flex Express Transport is applied to the entire circumference of the service and is measured from the serving wire center of the customer designated location(s) and the CO Nodes. Flex Express Transport is ordered with the "First System" and each "Additional System" Flex Express Connect in OC3, OC12 or OC48 bandwidth not to exceed OC12, OC48 or OC192 bandwidth capacity, respectively.

Flex Express may be ordered under a one (1) year, three (3) year, five (5) year or seven (7) year Term Payment Plan (TPP). After the initial order for Flex Express Connect, month-to-month rates shall apply for the Additional Flex Nodes. When the TPP of the Flex Express "First System" expires and the customer does not renew the TPP as shown in 20.3(G)(2), the first Flex Express "Additional System" will assume the Flex Express "First System" rates.

In addition to the Flex Express Connect rate elements, Custom Connect Transport (CC Transport), as described in 20(D)(1)(j), is applicable for transport from the serving wire centers of the customer designated locations and CO Nodes. Rider charges for Flex Express Connect are included in its monthly rate.

* Grandfathered to existing service effective April 20, 1999.

Effective August 15, 2009, orders for new Flex Express Connect First Systems, Additional CDL Nodes, and/or Additional CO Nodes are no longer permitted. The Telephone Company will continue to provide Flex Express Connect pursuant to this Section 20 on any existing Flex Express Connect that is in-service as of August 15, 2009, or any order for Flex Express Connect that is placed with the Telephone Company prior to August 15, 2009, (collectively, Existing Flex Express Connect). Changes in bandwidth capacity, moves, and/or rearrangements are not permitted.

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20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges (Cont'd)****(i) Flex Express Connect # (Cont'd)**

The customer may subscribe to Custom Connect Shared Transport, Custom Connect Dedicated Transport or Banded Optical Transport with Flex Express Connect.

The customer may also subscribe to Telephone Company provided banded SONET transport with Flex Express Connect, provided that such connections are technically and operationally feasible, as determined by the Telephone Company.

Rider charges are included in the monthly rate for Flex Express Connect.

Service availability limited. Refer to # footnote on Page 20-8.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges (Cont'd)****(j) Custom Connect#**

The Custom Connect provides a connection to the Telephone company's Optical network and an access customer's designated location (CDL). The Custom Connect is comprised of CO Nodes, CDL Links or SONET Premises Nodes, Transport and Riders. Each Custom Connect must consist of a minimum of two customer designated locations, one of which must be a CDL Link.

The Custom Connect may be ordered as switched or special access. The Concatenated/Non-concatenated Custom Connect CDL Link is provided with a two fiber network interface. The Concatenated/Non-concatenated CDL Link may be optionally ordered with a four fiber, 1+1 protected network interface, as Single or Diverse Route.

Custom Connect may connect to Dedicated SONET Optical Transport Service (DSOTS) optical transport channels or may be provided over an DSOTS backbone network as set forth in 20.1 following. DSOTS combines DWDM and SONET technologies to create a high-speed backbone network.

Custom Connect may also be connected to the following Telephone Company services, provided that such connections are technically and operationally feasible, as determined by the Telephone Company:

- dedicated SONET ring service
- point-to-point SONET service
- DWDM ring service
- SONET entrance facility service
- ethernet private line service

Custom Connect may also be provided over a Telephone Company provided DWDM ring backbone network provided that such configurations are technically and operationally feasible, as determined by the Telephone Company.

Custom Connect Single Route and Diverse Route at OC12c and OC48c may also connect to an advanced data service at designated Telephone Company wire centers.

The following footnote is not applicable to the DS1, DS3, or STS1 Rider rate elements or the DS1 or DS3/STS1 Shared Transport rate elements of Custom Connect. Effective March 30, 2007, orders for new Custom Connect are no longer permitted. The Telephone Company will continue to provide Custom Connect pursuant to this Section 20(D)(j) on any existing Custom Connect that is in-service as of March 30, 2007, or any order for Custom Connect that is placed with the Telephone Company prior to March 29, 2007 (collectively, Existing Custom Connect), subject to the following condition:

For any Existing Custom Connect that is currently subscribed to a term plan (i.e., commitment periods of 1-, 3- 5- and 7-years), the Telephone Company will continue to provide the Existing Custom Connect for an additional six (6) months beyond the expiration date of the customer's current commitment period, or until the customer replaces the Existing Custom Connect with a comparable Telephone Company provided service, or discontinues service, whichever comes first. Subject to availability of facilities and equipment, certain additions and/or changes to the Existing Custom Connect are permitted provided that such changes do not require a new commitment period.

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20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges (Cont'd)****(j) Custom Connect# (Cont'd)****CO Node**

The CO Node rate element is applicable for each central office that is equipped with a fiber optic terminal in which the customer requests the ability to add/drop traffic to a CDL. Traffic is dropped from the CO Node via ports (lower speed drops). The CO Node may be ordered when a customer requires OC level multiplexing on the Custom Connect. If the customer wants to drop traffic below a DS3 at the CO Node, the customer must request a minimum DS1 interface and appropriate special access lines from Section 5. The CO Node may also be used when the customer wants to add/drop DS1 or DS3 traffic to a CDL located between the service areas shown under Section 5.2.7(H). The OC192 CO Node's ability to drop traffic below an OCn level is limited to new and in-service terminals technically capable of providing such directly from the ADM. See Rider section, herein, for further details. The appropriate multiplexing and access lines and transport rates from Section 5 will apply in addition to the CO Node and appropriate rider charges. However, multiplexing rates from Section 5 will not apply when the following conditions are met:

- (1) The Customer requests to drop a DS3 from a CO Node for the purpose of establishing a DS3 multiplexed facility in its serving wire center; and
- (2) the customer subscribes to and is billed for the CO Node rate element; and
- (3) the customer CO Node is located in the same central office building where the DS3 multiplexed facility is to be located

When the customer CO Node is not located within the wire center serving the CDL, rates including the 3/1 multiplex rates apply as set forth in Section 5 and other Sections of this tariff. These charges are in addition to the appropriate CO Node, rates associated with transport of the DS3 facility to the wire center where the CO Node is located and rider charges applicable under this Section 20.

The CO Node may be ordered at an OC3, OC12, OC48 or OC192 bandwidth capacity. The CO Node may be ordered under a one (1) year, three (3) year, five (5) year or seven (7) year Term Payment Plan (TPP).

Service availability limited. Refer to # footnote on Page 20-10.

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20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges (Cont'd)****(j) Custom Connect# (Cont'd)****CDL Link**

The CDL Link rate element is applicable for each customer designated location in which the customer requests the ability to add/drop traffic. The CDL Link is offered as Single Route, Diverse Route or Ring Route and may be ordered with premise multiplexer provided or with premise fiber meet provided as OC3, OC12, OC48 or OC192 bandwidth capacity. Only one CDL Link per connect may be ordered with premise fiber meet provided. The premise fiber meet will terminate on a fiber cross connect panel at the demarcation point. CDL Link with premise fiber meet is not available for jointly provided meet-point arrangements except where the Telephone Company provides a node within its network to the customer.

If more than two Links or Nodes are ordered on the same order, the CDL Link must be ordered as a Ring Route CDL Link. A Ring Route CDL Link has a minimum of three nodes, one of which must be located in a Telephone Company wire center. A Custom Connect ordered via a ring topology will be provided with a service guarantee as shown in Section 2.7.1.1. When Custom Connect is configured in a ring topology and is ordered under a meet point billing arrangement in which the Telephone Company acts as an intermediate carrier as set forth in Section 2 preceding, a CO Node is required.

The CDL Link may be ordered as Single Route or Diverse Route with concatenated or non-concatenated optical interface for OC3/OC3c, OC12/OC12c and OC48/OC48c. These CDL Links will terminate on a fiber cross connect panel at the demarcation point. The rider charges are included in the monthly rate for these CDL Links.

The CDL Link may also be ordered as 1.25 and 2.5 Gbps Single Route or Diverse Route. This CDL Link cannot ride a higher level facility and can only be ordered CDL to CDL.

The CDL Link may be ordered under a one (1) year, three (3) year, five (5) year or seven (7) year TPP.

When Custom Connect is provided over an DSOTS backbone and the transport between the nodes is provided using DSOTS optical transport channels, a SONET Premises Node applies in lieu of the CDL Link to each customer designated location of the Custom Connect ring where SONET multiplexing is required.

When Custom Connect is provided over a Telephone Company provided DWDM backbone and the transport between the nodes is provided using DWDM optical transport channels, a SONET Premises Node applies in lieu of the CDL Link to each customer designated location of the Custom Connect ring where SONET multiplexing is required.

* Grandfathered to existing services effective November 1, 2003.

Service availability limited. Refer to # footnote on Page 20-10.

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20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges (Cont'd)****(j) Custom Connect# (Cont'd)****CDL Link with Optical Cross Connect**

The CDL Link with Optical Cross Connect provides the communications path between the Telephone Company provided electronics and a customer's transmission equipment and facilities where the customer is provided EIS as defined in Section 17. This rate element includes the intra-office connection from the Telephone Company fiber optic terminal and the optical jumpers to facilitate the cross connect to the customer's transmission equipment and facilities within the Telephone Company wire center. This rate element allows connectivity to Dedicated SONET Ring (DSR) or a Telephone Company provided dedicated SONET ring.

The CDL Link with Optical Cross Connect will be provided as single route without Telephone Company provided electronics as OC3, OC3c, OC12, OC12c, OC48, OC48c or OC192 as ordered by the customer.

In addition to the rate for the CDL Link with Optical Cross Connect, the appropriate CDL Link rate element is applicable from the customer-designated location to the serving wire center.

The CDL Link with Optical Cross Connect may be ordered under a one (1) year, three (3) year, five (5) year or seven (7) year TPP.

Rates for the CDL Link with Optical Cross Connect are as shown in 20(L)(25) will apply in addition to other charges as specified in Section 17.

Network Channel Interfaces

The network channel interface codes define the bit rates that are available. Network Channel interfaces and codes are defined below:

<u>Service</u>	<u>Ports</u>	<u>Codes</u>
OC3, OC3c	2 Fiber	02SOF.D(B&F)
OC3, OC3c	4 Fiber, 1+1 Protection	04SOF.D(B&F)
STM1	2 Fiber	02SOF.D(B&F)
STM1	4 Fiber, 1+1 Protection	04SOF.D(B&F)
OC12, OC12c, STM4	2 Fiber	02SOF.D(B&F)
OC12, OC12c, STM4	4 Fiber, 1+1 Protection	04SOF.D(B&F)
OC12c, OC48c	2 Fiber	02CXF.A(B&C)
OC48, OC48c	2 Fiber	02SOF.D(B&F)
OC48, OC48c	4 Fiber, 1+1 Protection	04SOF.D(B&F)

Service availability limited. Refer to # footnote on Page 20-10.

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20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges (Cont'd)****(j) Custom Connect# (Cont'd)**Transport

Transport may be ordered as shared or dedicated. Shared Transport is applicable when the transport between Node and/or Links is ordered at different bandwidth levels. The Dedicated Transport is applicable when transport between the Nodes and/or Links is of the same bandwidth level.

Shared Transport may be ordered in bandwidths of DS1, DS3/STS1, OC3, OC3c, OC12, OC12c, OC48 or OC48c. Dedicated Transport may be ordered in bandwidths of OC3, OC3c, OC12, OC12c, OC48, OC48c or OC192, 1.25 Gbps or 2.5 Gbps. The transport is mileage sensitive and will be calculated based on the V&H coordinates of the wire centers comprising each segment of the connect. The meet point billing mileage calculation is specified in 2.7.3. The customer has the option to subscribe to Banded Optical Transport in place of Custom Connect Shared Transport. DS1 and DS3/STS1 Shared Transport may also be ordered in combination with Telephone Company provided point-to-point SONET service.

The Custom Connect Transport rate element is distance sensitive using airline mileage between serving wire centers and is calculated consistent with that specified in 2.7 preceding. Mileage is rounded up to the next whole mile.

When point-to-point Custom Connect is provided over a Dedicated SONET Optical Transport Service (DSOTS) backbone network as set forth in Section 20.1 following, connection between the Custom Connect nodes is provided using an DSOTS optical transport channel in lieu of Custom Connect transport. When Custom Connect configured in a ring topology is provided over an DSOTS backbone network, connection between the SONET nodes (Custom Connect CO Nodes and/or SONET Premises Nodes) is provided using unprotected DSOTS optical transport channels as set forth in Section 20.1 in lieu of Custom Connect transport. Since protection is inherent in the Custom Connect service, protection is not required on the DSOTS optical transport channels.

Connection of Custom Connect configured in a ring topology to an DSOTS ring is provided over an equal speed, unprotected optical transport channel (e.g., an OC3 Custom Connect node would connect to a 155.52 Mbps unprotected DSOTS channel). Each node of a Custom Connect ring must be located at the same customer designated location or central office as its corresponding DSOTS node.

When point-to-point Custom Connect is provided over a Telephone Company provided DWDM backbone network, connection between the Custom Connect nodes is provided using a DWDM optical transport channel in lieu of Custom Connect transport. When Custom Connect configured in a ring topology is provided over a Telephone Company provided DWDM backbone network, connection between the SONET nodes (Custom Connect CO Nodes and/or SONET Premises Nodes) is provided using unprotected DWDM optical transport channels in lieu of Custom Connect transport. Since protection is inherent in the Custom Connect service, protection is not required on the DWDM optical transport channels.

Connection of Custom Connect configured in a ring topology to a Telephone Company provided DWDM ring is provided over an equal speed, unprotected optical transport channel (e.g., an OC3 Custom Connect node would connect to a 155.52 Mbps unprotected DWDM channel). Each node of a Custom Connect ring must be located at the same customer designated location or central office as its corresponding DWDM node.

The Shared Transport rate for Custom Connect Transport DS1 and DS3 bandwidth services apply to the transport facilities connected to Optical Custom Connect services.

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges (Cont'd)****(j) Custom Connect# (Cont'd)**Rider

The Rider is the customer's service(s) traversing a higher bandwidth level. Riders may be provided at DS1, DS3, OC3, OC3c, OC12, OC12c, OC48, OC48c or STS1 bandwidth levels as required by the customer. DS1, DS3, and STS1 Riders may also be ordered in combination with Telephone Company provided point-to-point SONET service.

The Rider is provided at a flat-rated monthly recurring charge and is applicable per rider circuit order. A Rider is not charged with a CDL Link – Single or Diverse Route – Concatenated/Non-concatenated optical interface. The Rider charges for Express Connect or Flex Express Connect are included in their monthly rates.

Four fiber 1+1 protection consists of two cards in the add/drop multiplexer, one working card and a second, standby card to provide automatic protection from a fault in the working card. The four fiber 1+1 protection is available with all Telephone Company provided add/drop multiplexers and with compatible CPE and applies per CDL. When a Rider is ordered with four fiber 1+1 protection, the protection charge applies in addition to the charge for the Rider. Prior to December 28, 2002, the Telephone Company provided four fiber, 1+1 protection at no charge, upon request of the customer. Customers with those interface arrangements on their Riders are grandfathered as of December 28, 2002, and are not subject to the optional feature charge.

Intrastate riders may be transported on the customer's interstate Ethernet Private Line facility.

In jointly provided meet-point arrangements, rider charges apply in addition to other applicable charges when the Telephone Company provides any Ocn mux node, whether provided at the customer premise or in the central office.

Acceptable rider speeds allowed by node type are as follows:

<u>NOC3</u>	<u>OC12</u>	<u>OC48</u>	<u>OC192</u>	
DS1 Rider	X	X*	X*	X*
DS3 Rider	X	X	X	X*
STS1 Rider	X	X	X	X
OC3/OC3c Rider		X	X	X
OC12/OC12c Rider			X	X
OC48/OC48c Rider				X

* This provision is only available from nodes that are technically capable of providing DS1 and DS3 drops directly from the OCn node terminal. The maximum capacity utilization that can be delivered by a OCn node selected by the customer may be limited by the number and type of riders that are provisioned on the OCn node and are limited by the maximum number of interfaces available to the OCn backplane. Where the OCn terminal is technically capable of supporting lower bandwidth OCn nodes as a sub-multiplexer, the Telephone Company may provide such at the customer premise and Central Office Node locations at the tariffed CO Node rates on a per sub-multiplexer node deployed.

Service availability limited. Refer to # footnote on Page 20-10.

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20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges (Cont'd)****(j) Custom Connect# (Cont'd)****SONET Premises Node**

The SONET Premises Node rate element applies at each CDL at which a SONET node is needed to complete a Custom Connect ring over an DSOTS backbone network. The functionality and capabilities of the SONET Premises Node are the same as those specified for the CO Node preceding. The SONET Premises Node will only be provided when Custom Connect is configured in a ring or point to point topology in which the transport between the nodes (CO Node and/or SONET Premises Nodes) is provided using DSOTS optical transport channels. DSOTS is described in Section 20.1 following. The SONET Premises Node applies in lieu of the Custom Connect CDL Link.

The SONET Premises Node rate element also applies at each CDL at which a SONET node is needed to complete a Custom Connect ring over a Telephone Company provided DWDM backbone network. The SONET Premises Node will only be provided when Custom Connect is configured in a ring or point to point topology in which the transport between the nodes (CO Node and/or SONET Premises Nodes) is provided using DWDM optical transport channels. The SONET Premises Node applies in lieu of the Custom Connect CDL Link.

The SONET Premises Node may be ordered under a three (3) year, five (5) year or seven (7) year TPP.

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges (Cont'd)****(2) Optical Network Transport**

The transport element provides for the interoffice Ethernet Private Line designated transport between wire centers on Telephone Company defined LANs. Each IC customer Connect must have its own transport. Transport cannot be shared among IC customer Connects.

Band SONET Transport may be purchased in DS0, DS1, DS3, OC3 or OC12 Bandwidths.

(a) Reserved for Future Use

(b) Reserved for Future Use

(c) Reserved for Future Use

(d) Reserved for Future Use

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20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges (Cont'd)****(2) Optical Network Transport (Cont'd)****(e) Reserved for Future Use**

- (f)** Banded Optical Transport# provides transport between the serving wire center of the interexchange access customer's location and the access customer's end user premises. Banded Optical Transport may be provided at DS0, DS1, DS3, OC3, STS1, OC12 or OC48 bandwidth levels as required by the customer. Wholly provided Banded Optical Transport may also be provided at OC3c, OC12c or OC48c bandwidth levels. When Banded Optical is ordered at a DS0 level, the customer must request a minimum of a DS1 interface at the IC customer wire center and will be charged the appropriate rider (i.e., DS1 or DS3). Banded Optical Transport is provided with a service guarantee as shown in Section 2.7.1.1. For subscription to Banded Optical Transport, the customer must have an accumulative demand requirement, whether provided pursuant to this Section 20 or as Telephone Company provided banded SONET transport, equivalent to an average of nine DS3s, i.e., 5,978 channels, per LATA, per state. The bandwidth will be reviewed annually at a mutually agreed upon date by the customer and the Company. An allowance of minus 2% will be considered as having met the commitment level. Should the bandwidth fall below minus 2%, the customer will have thirty (30) days to meet the bandwidth requirement. If not met, the customer will be notified by the Telephone Company and will be required to convert from Banded Optical Transport to another Optical Network Transport option.

Effective September 14, 2007, orders for new OCn Banded Optical Transport are no longer permitted. The Telephone Company will continue to provide OCn Banded Optical Transport pursuant to this Section 20 on any existing OCn Banded Optical Transport that is in-service as of September 14, 2007, or any order for OCn Banded Optical Transport that is placed with the Telephone Company prior to September 14, 2007 (collectively, Existing OCn Banded Optical Transport), subject to the following condition:

For any Existing OCn Banded Optical Transport that is currently subscribed to a term plan (i.e., commitment periods of 1-, 3-, 5-, and 7-years), the Telephone Company will continue to provide the Existing OCn Banded Optical Transport for an additional six (6) months beyond the expiration date of the customer's current commitment period, or until the customer replaces the Existing OCn Banded Optical Transport with a comparable Telephone Company provided service, or until the customer discontinues service, whichever occurs first. Orders to move, add, or change an Existing OCn Banded Optical Transport are not permitted.

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20. Ethernet Private Line (Cont'd)**(D) Application of Rates and Charges (Cont'd)****(2) Optical Network Transport (Cont'd)**

- (f) Banded Optical Transport# is provided at a flat-rated monthly charge for one (1) year, three (3) year, five (5) year, or seven (7) year contract periods. The contract period for Banded Optical Transport cannot exceed the contract period of the Connect. Banded Optical Transport includes the special access line from the end user serving wire center to the end user premises, for both on-net and off-net, with the exception of jointly provided Banded Optical Transport. Banded Optical Transport will be provisioned at the highest network facility available at the time of the order. The monthly rate will be determined based on the mileage between the serving wire centers of the customer designated locations and is applicable on a per circuit basis. Mileage will be rounded up to the next whole mile except when the CDLs are collocated.

When both customer designated locations are provided by the Telephone Company, wholly provided, the monthly rates as shown in 20(L)(37-46) are applicable. When one of the customer designated locations is provided by another telephone company, or the customer terminates at a multiplexer in a wire center on IOF, jointly provided, the monthly rates as shown in 20(L)(47-52) shall apply. For jointly provided transport with another telephone company, the meet point billing mileage calculation is specified in Section 2.7.3.

Service availability limited. Refer to # footnote on Page 20-18.

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- 20. Ethernet Private Line (Cont'd)
- (D) Application of Rates and Charges (Cont'd)
- (2) Optical Network Transport (Cont'd)

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)

(D) Application of Rates and Charges (Cont'd)

 (3) Reserved for Future Use

(E) Reserved for Future Use

(F) Reserved for Future Use

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(G) Rate Regulations**

Ethernet Private Line may be ordered under a one (1), three (3), five (5), or seven (7) year Term Payment Plan (TPP). Any TPP for these services is subject to an TPP Termination Liability Charge as specified herein.

When ordered together the TPP applies to Connects, Banded Optical Transport and Additional Nodes.

(1) Changes in Length of a TPP

Prior to the expiration of a TPP period, the customer may elect to convert to a new TPP period of the same or different length, subject to the following conditions:

- No credit will be given for the new period for payments made under the original TPP arrangement.
- will not be reapplied for existing services.
- If the new TPP period is shorter in length than the time remaining under the existing TPP, the change to the new TPP period constitutes a disconnect of the existing TPP service and termination liability charges will apply.
- The rates for the new period will be the rates currently in effect at the time of the change.
- If the customer subscribes to a new TPP which is greater in length than the initial TPP term and discontinues one or all of the service elements prior to the expiration of the new termination liability period, the termination liability, as set forth below, will apply based on the remainder of the TPP period in effect at the time of the disconnect.

<u>Year in which Service Is Discontinued</u>	<u>Liability Rate</u>
1	100%
2	75%
3	50%
4 or more	25%

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20. Ethernet Private Line (Cont'd)**(G) Rate Regulations (Cont'd)****(2) Renewal Options**

Ninety (90) days prior to the expiration of the existing TPP, the customer shall submit in writing to select a new TPP or disconnect service. If no notice is received, the Company will automatically reconnect the customer to a new TPP with the same term life as the previous.

After completion of the initial TPP term and the customer subscribes to a new term that is longer in length the termination liability, as set forth below, will apply based on the remainder of the TPP period in effect at the time of the disconnect.

<u>Year in which Service Is Discontinued</u>	<u>Liability Rate</u>
1	20%
2	15%
3	10%
4 or more	5%

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(G) Rate Regulations (Cont'd)****(3) Conversion**

When an existing customer purchases Ethernet Private Line, the customer may upgrade their existing special access services to Ethernet Private Line. The upgrade may require physical network changes, as well as changes to existing billing arrangements. Physical changes consist of reterminating existing services not currently utilizing the Optical network.

Termination liability charges will not apply to the customer's existing services provided the Ethernet Private Line TPP term commitment agreement is equal to or longer in length than the time remaining for the existing arrangement.

(4) Rate Changes

The TPP rates are exempt from Telephone Company initiated increases for the length of the plan, however, decreases will be passed on to the customer. Rate changes may occur as a result of FCC action.

(5) Termination Liability

In the event the customer discontinues one or all of the service elements (Connect, Banded Optical Transport, Additional Node) prior to the end of the initial termination liability period, termination liability charges, as set forth below, will apply based on the remainder of the TPP period in effect at the time of the disconnect.

<u>Year in which Service Is Discontinued</u>	<u>Liability Rate</u>
1	40%
2	35%
3	30%
4 or more	25%

(6) Termination Without Liability

For Banded Optical Transport, termination charges will not apply when the customer disconnects a DS0 or DS1 on a circuit by circuit basis provided the required accumulative bandwidth is met as shown in 20(D)(2)(f).

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(G) Rate Regulations (Cont'd)****(7) Upgrade to Higher Bandwidth**

The Customer who has grown incrementally, may elect to upgrade service to a higher bandwidth during an TPP period to gain economic efficiencies. Termination charges will not apply as long as the upgraded service remains connected at the same points of termination unless the network is being redesigned to gain network efficiency. Nonrecurring charges associated with the new bandwidth upgrade shall apply.

- (8) The Customer may elect to change service from a 2-fiber interface to a 4-fiber interface during a TPP. Termination charges will not apply as long as the changed service remains at the same point of termination(s).

(H) Off-Net Wire Center

Off-Net wire center is a wire center not a designated Ethernet Private Line wire center office. The customer may order a DS0, DS1, DS3 or E1 to the Off-Net wire center. Mileage charges will be determined based on airline miles to the nearest on-net wire center at the transport rates shown in Section 7.

Circuits connected to the Off-Net wire center will be billed existing tariffed rates as shown in Section 7.

(I) Shared Use

Shared Use is the provisioning of Switched Access over Ethernet Private Line. Rating as Ethernet Private Line will continue until such time as a portion of the available Ethernet Private Line capacity is used to provide Switched Access service.

For shared use, a special access DS3 interface must be ordered between the IC customer and the IC customer wire center. When switched trunks are ordered, a DS1 switched interface must be ordered for the switched trunks. A DS3 or DS1 interface ordered as Switched Access will be used exclusively for Switched Access.

As individual channels are activated for Switched Access, monthly charges will be adjusted between Switched Access and Ethernet Private Line Access based on the number of channels used for Switched Access and the remaining Ethernet Private Line Access facility.

The total Shared Use for Switched Access charge is equal to the number of channels used for Switched Access divided by 24 for DS1 or 672 for DS3 times the Monthly Switched Access Charges. The monthly Switched Access rates used will be the current rates for Switched Access Entrance Facility, Direct-Trunked Transport Facility, Direct-Trunked Transport Termination and Multiplexer.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(I) Shared Use (Cont'd)**

Following is an example of how Shared Use will apply to Ethernet Private Line.

Single Route OC3 Connect - Electrical	\$4,100.00
Point-to-Point Transport - OC1 (10 Miles X \$160.00)	1,600.00
DS3 CO Connect	130.00
DS3 Payload	<u>160.00</u>
Total SONET Monthly Recurring Charge	\$5,990.00

Customer wants to utilize 850 channels for Switched Access DS3 with 10 miles of transport.

$850/672 = 1.2$ DS3s

DS3 Direct-Trunked Transport Facility	= \$67.44 X 10 =	\$674.40
DS3 Direct-Trunked Transport Termination	=	190.46
DS3 Entrance Facility	=	<u>1,263.67</u>
Total Monthly Rate per DS3		\$2,1278.53

$\$2,128.53 \times 1.2 \text{ DS3s} = \$2,554.23$ Switched Access Shared Use Monthly Rate

SONET Monthly Recurring Charge	\$5,990.00
Switched Access Shared Use	<u>-2,554.23</u>
SONET Monthly Charge	\$3,435.77

SONET Monthly Charge	\$3,435.77
Switched Access Shared Use	<u>+2,554.23</u>
Total Monthly Billing	\$5,990.00

(J) (Reserved for Future Use)

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)

(K) Reserved for Future Use

ACCESS SERVICE

- 20. Ethernet Private Line (Cont'd)
- (L) Rates and Charges
- (1) Reserved for Future Use

ACCESS SERVICE

- 20. Ethernet Private Line (Cont'd)
- (L) Rates and Charges (Cont'd)
- (2) Reserved for Future Use

ACCESS SERVICE

- 20. Ethernet Private Line (Cont'd)
- (L) Rates and Charges (Cont'd)
- (3) Reserved for Future Use

ACCESS SERVICE

- 20. Ethernet Private Line (Cont'd)
- (L) Rates and Charges (Cont'd)
- (4) Reserved for Future Use

ACCESS SERVICE

- 20. Ethernet Private Line (Cont'd)
- (L) Rates and Charges (Cont'd)
- (5) Reserved for Future Use

ACCESS SERVICE

- 20. Ethernet Private Line (Cont'd)
- (L) Rates and Charges (Cont'd)
- (6) Reserved for Future Use

ACCESS SERVICE

- 20. Ethernet Private Line (Cont'd)
- (L) Rates and Charges (Cont'd)
- (7) Reserved for Future Use

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(8) Express Connect # - First System**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
OC3	\$ 7,700.00	\$ 6,800.00	\$ 6,300.00	\$ 6,200.00
OC12	13,000.00	12,100.00	11,400.00	11,300.00
OC48	27,625.00	27,125.00	26,750.00	26,350.00

Express Connect # - Additional System

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
(OC3	\$1,100.00	\$1,100.00	\$1,100.00	\$1,100.00
OC12	2,400.00	2,330.00	2,100.00	2,100.00
OC48	9,135.00	9,000.00	9,000.00	9,000.00

Service availability limited. Refer to # footnote on Page 20-7.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(9) Flex Express Connect # - First System**

	One Year <u>Monthly Rate</u>	Three Year <u>Monthly Rate</u>	Five Year <u>Monthly Rate</u>	Seven Year <u>Monthly Rate</u>
OC3	\$11,500.00	\$10,200.00	\$ 9,550.00	\$ 9,450.00
OC12	18,800.00	17,600.00	16,700.00	16,600.00
OC48	33,425.00	33,100.00	32,700.00	32,700.00

Flex Express Connect # - Additional System

	One Year <u>Monthly Rate</u>	Three Year <u>Monthly Rate</u>	Five Year <u>Monthly Rate</u>	Seven Year <u>Monthly Rate</u>
OC3	\$1,200.00	\$1,200.00	\$1,200.00	\$1,200.00
OC12	2,300.00	2,300.00	2,100.00	2,100.00
OC48	11,316.00	11,316.00	11,316.00	11,316.00

Service availability limited. Refer to # footnote on Page 20-8.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

(L) Rates and Charges (Cont'd)

(10) Express and Flex Express # - Additional CDL Node

	<u>Monthly Rate</u>			
(
OC3	\$ 3,600.00			
OC12	6,000.00			
OC48	12,945.00			
		<u>One Year</u>	<u>Three Year</u>	<u>Five Year</u>
		<u>Monthly Rate</u>	<u>Monthly Rate</u>	<u>Monthly Rate</u>
				<u>Seven Year</u>
				<u>Monthly Rate</u>
OC3	\$ 3,300.00	\$ 3,300.00	\$ 3,300.00	\$ 3,300.00
OC12	5,900.00	5,800.00	5,450.00	5,450.00
OC48	11,945.00	11,945.00	11,945.00	11,945.00

Service availability limited. Refer to # footnotes on Pages 20-7 and 20-8.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(12) Flex Express # - First System Transport**

	Monthly Rate Per Mile
--	--------------------------

OC3	\$170.00
OC12	240.00

Flex Express # - Additional System Transport

	Monthly Rate Per Mile
--	--------------------------

OC3	\$ 25.00
OC12	45.00

Express and Flex Express # – First System Transport

	Monthly Rate Per Mile
--	--------------------------

OC48	\$500.00
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Express and Flex Express # - Additional System Transport

	Monthly Rate Per Mile
--	--------------------------

OC48	\$100.00
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Service availability limited. Refer to # footnotes on Pages 20-7 and 20-8.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(13) Custom Connect - CO Node#**

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
OC3	\$1,500.00	\$ 1,000.00		
OC12	3,000.00	2,250.00		
OC48	3,000.00	4,500.00		
OC192	6,000.00	11,250.00		
	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>	
OC3	\$ 900.00	\$ 850.00	\$ 800.00	
OC12	2,150.00	2,050.00	1,975.00	
OC48	4,300.00	4,100.00	3,900.00	
OC192	10,750.00	10,250.00	9,750.00	

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(14) Custom Connect – SONENT Premises Nodes- DSOTS#**

	<u>Nonrecurring Charge</u>	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
OC3	\$1.00	\$ 900.00	\$ 850.00	\$ 800.00
OC12	1.00	2,150.00	2,050.00	1,975.00
OC48	1.00	4,300.00	4,100.00	3,900.00

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(15) Custom Connect - CDL Link - Single Route with Premise Multiplexer Provided#**

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
OC3	\$ 3,000.00	\$ 1,075.00		
OC12	6,000.00	2,550.00		
OC48	6,000.00	4,450.00		
OC192	12,000.00	11,625.00		
	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>	
OC3	\$ 1,000.00	\$ 950.00	\$ 900.00	
OC12	2,400.00	2,200.00	2,050.00	
OC48	4,100.00	3,900.00	3,700.00	
OC192	11,200.00	11,000.00	10,900.00	

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(16) Custom Connect - CDL Link - Single Route with Premise Fiber Meet Provided#**

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
OC3	\$1,500.00	\$650.00		
OC12	1,500.00	650.00		
OC48	1,500.00	650.00		
OC192	1,500.00	700.00		
	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>	
OC3	\$620.00	\$600.00	\$580.00	
OC12	620.00	600.00	580.00	
OC48	620.00	600.00	580.00	
OC192	650.00	620.00	600.00	

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(17) Custom Connect - CDL Link - Single Route – Concatenated/Non-concatenated#**

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
OC3c/OC3	\$6,000.00	\$ 3,300.00		
OC12c/OC12	6,000.00	6,700.00		
OC48c/OC48	6,000.00	12,500.00		
	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>	
OC3c/OC3	\$ 3,150.00	\$ 2,950.00	\$ 2,800.00	
OC12c/OC12	6,350.00	6,150.00	5,950.00	
OC48c/OC48	12,250.00	12,000.00	11,750.00	

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE20. Ethernet Private Line (Cont'd)(L) Rates and Charges (Cont'd)(18) Custom Connect - CDL Link - Diverse Route with Premise Multiplexer Provided#

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
OC3	\$ 3,000.00	\$ 1,790.00		
OC12	6,000.00	3,175.00		
OC48	6,000.00	5,100.00		
OC192	12,000.00	13,125.00		
	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>	
OC3	\$ 1,700.00	\$ 1,650.00	\$ 1,600.00	
OC12	2,900.00	2,775.00	2,650.00	
OC48	4,800.00	4,575.00	4,375.00	
OC192	12,400.00	11,550.00	11,000.00	

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE20. Ethernet Private Line (Cont'd)(L) Rates and Charges (Cont'd)(19) Custom Connect - CDL Link - Diverse Route with Premise Fiber Meet Provided#

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
OC3	\$3,000.00	\$1,200.00		
OC12	3,000.00	1,200.00		
OC48	3,000.00	1,200.00		
OC192	3,000.00	1,300.00		
			<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>
				<u>Seven Year Monthly Rate</u>
OC3	\$1,165.00	\$1,125.00	\$1,100.00	
OC12	1,165.00	1,125.00	1,100.00	
OC48	1,165.00	1,125.00	1,100.00	
OC192	1,250.00	1,220.00	1,200.00	

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(20) Custom Connect - CDL Link - Diverse Route – Concatenated/Non-concatenated#**

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
OC3c/OC3	\$6,000.00	\$ 3,925.00		
OC12c/OC12	6,000.00	7,350.00		
OC48c/OC48	6,000.00	13,200.00		
	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>	
OC3c/OC3	\$ 3,650.00	\$ 3,525.00	\$ 3,400.00	
OC12c/OC12	7,050.00	6,825.00	6,625.00	
OC48c/OC48	13,000.00	12,500.00	12,250.00	

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(21) Custom Connect - CDL Link - Ring Route with Premise Multiplexer Provided #**

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
OC3	\$ 3,000.00	\$ 2,520.00		
OC12	6,000.00	3,950.00		
OC48	6,000.00	5,750.00		
OC192	12,000.00	15,625.00		
	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>	
OC3	\$ 2,450.00	\$ 2,400.00	\$ 2,350.00	
OC12	3,800.00	3,650.00	3,475.00	
OC48	5,500.00	5,250.00	5,000.00	
OC192	14,900.00	14,050.00	13,500.00	

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(22) Custom Connect - CDL Link - Ring Route with Premise Fiber Meet Provided #**

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
OC3	\$3,000.00	\$2,045.00		
OC12	3,000.00	2,045.00		
OC48	3,000.00	2,045.00		
OC192	3,000.00	2,300.00		
			<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>
			<u>Monthly Rate</u>	<u>Monthly Rate</u>
			<u>Monthly Rate</u>	<u>Monthly Rate</u>
OC3	\$2,020.00	\$1,995.00	\$1,970.00	
OC12	2,020.00	1,995.00	1,970.00	
OC48	2,020.00	1,995.00	1,970.00	
OC192	2,250.00	2,220.00	2,200.00	

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(23) Custom Connect - CDL Link - Single Route#**

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
1.25 Gbps	\$6,000.00	\$3,570.00		
2.5 Gbps	6,000.00	4,230.00		
	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>	
1.25 Gbps	\$3,450.00	\$3,330.00	\$3,210.00	
2.5 Gbps	4,110.00	3,990.00	3,870.00	

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(24) Custom Connect - CDL Link - Diverse Route#**

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
1.25 Gbps	\$6,000.00	\$3,835.00		
2.5 Gbps	6,000.00	4,595.00		
	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>	
1.25 Gbps	\$3,730.00	\$3,625.00	\$3,525.00	
2.5 Gbps	4,485.00	4,375.00	4,265.00	

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(25) Custom Connect - CDL Link - Single Route with Optical Cross Connect #**

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
OC3/OC3c	\$1,000.00	\$ 715.00		
OC12/OC12c	2,500.00	1,640.00		
OC48/OC48c	2,500.00	3,450.00		
OC192	2,500.00	7,250.00		
	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>	
OC3/OC3c	\$ 690.00	\$ 675.00	\$ 650.00	
OC12/OC12c	1,590.00	1,550.00	1,500.00	
OC48/OC48c	3,350.00	3,275.00	3,150.00	
OC192	7,025.00	6,850.00	6,625.00	

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)(L) Rates and Charges (Cont'd)(26) Custom Connect - RiderMonthly
Rate

DS1	\$ 75.00
DS3	250.00
STS1	240.00
OC3/OC3c	750.00#
OC12/OC12c	2,250.00#
OC48/OC48c	4,500.00#

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
 (L) Rates and Charges (Cont'd)
 (27) Custom Connect – Optional 4 Fiber, 1+1 Protection#

	Monthly Rate, <u>Per CDL</u>
OC3c/OC3	\$ 375.00
OC12c/OC12	1,125.00
OC48c/OC48	2,250.00

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(28) Custom Connect - Shared Transport**

	Per Mile <u>Monthly Rate</u>
DS1	\$ 12.00
DS3/STS1	100.00
OC3/OC3c	210.00#
OC12/OC12c	450.00#
OC48/OC48c	1,125.00#

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(29) Custom Connect – Dedicated Transport #**

	<u>Per Mile Monthly Rate</u>
OC3/OC3c	\$170.00
OC12/OC12c	240.00
OC48/OC48c	370.00
OC192	550.00
1.25 Gbps	295.00
2.5 Gbps	370.00

Service availability limited. Refer to # footnote on Page 20-10.

ACCESS SERVICE

- 20. Ethernet Private Line (Cont'd)
- (L) Rates and Charges (Cont'd)
- (30) Reserved for Future Use

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)

(L) Rates and Charges (Cont'd)

(31) Reserved for Future Use

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)

(L) Rates and Charges (Cont'd)

(32) Reserved for Future Use

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)

(L) Rates and Charges (Cont'd)

(33) Reserved for Future Use

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)

(L) Rates and Charges (Cont'd)

(34) Reserved for Future Use

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)

(L) Rates and Charges (Cont'd)

(35) Reserved for Future Use

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)

(L) Rates and Charges (Cont'd)

(36) Reserved for Future Use

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(37) Transport - Banded Optical - DS0 (Wholly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
0 miles	\$ 100.00	\$93.00
1 - 10 miles	102.00	95.00
11 - 20 miles	104.00	97.00
21 + miles	106.00	99.00
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
0 miles	\$ 90.00	\$87.00
1 - 10 miles	92.00	89.00
11 - 20 miles	94.00	91.00
21 + miles	96.00	93.00

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(38) Transport - Banded Optical – DS1 (Wholly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
0 miles	\$ 205.00	\$191.00
1 - 10 miles	285.00	268.00
11 - 20 miles	305.00	304.00
21 + miles	350.00	312.00
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
0 miles	\$ 185.00	\$173.00
1 - 10 miles	260.00	245.00
11 - 20 miles	295.00	258.00
21 + miles	300.00	281.00

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(39) Transport - Banded Optical – DS3 (Wholly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
0 miles	\$1,800.00	\$1,700.00
1 - 10 miles	2,600.00	2,550.00
11 - 20 miles	4,000.00	3,800.00
21 + miles	5,200.00	4,900.00
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
0 miles	\$1,600.00	\$1,500.00
1 - 10 miles	2,350.00	2,200.00
11 - 20 miles	3,500.00	3,200.00
21 + miles	4,600.00	4,300.00

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(40) Transport - Banded Optical# – OC3 (Wholly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
0 miles	\$ 3,200.00	\$ 2,850.00
1 - 10 miles	4,950.00	4,450.00
11 - 20 miles	8,500.00	7,550.00
21 + miles	12,000.00	10,700.00
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
0 miles	\$ 2,750.00	\$ 2,650.00
1 - 10 miles	4,300.00	4,200.00
11 - 20 miles	7,300.00	7,100.00
21 + miles	10,300.00	9,900.00

Service availability limited. Refer to # footnote on Page 20-18.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(41) Transport - Banded Optical# – OC3c (Wholly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
0 miles	\$ 5,250.00	\$ 4,750.00
1 - 10 miles	6,100.00	5,600.00
11 - 20 miles	7,800.00	7,300.00
21 + miles	9,500.00	9,000.00

	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
0 miles	\$ 4,550.00	\$ 4,350.00
1 - 10 miles	5,400.00	5,200.00
11 - 20 miles	7,100.00	6,900.00
21 + miles	8,800.00	8,600.00

Service availability limited. Refer to # footnote on Page 20-18.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(42) Transport - Banded Optical# – OC12 (Wholly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
0 miles	\$ 5,250.00	\$ 4,750.00
1 - 10 miles	8,000.00	7,230.00
11 - 20 miles	13,000.00	12,000.00
21 + miles	18,300.00	17,000.00

	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
0 miles	\$ 4,550.00	\$ 4,350.00
1 - 10 miles	6,980.00	6,780.00
11 - 20 miles	11,600.00	11,200.00
21 + miles	16,500.00	16,000.00

Service availability limited. Refer to # footnote on Page 20-18.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(43) Transport - Banded Optical# – OC12c (Wholly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
0 miles	\$10,700.00	\$10,100.00
1 - 10 miles	11,900.00	11,300.00
11 - 20 miles	14,300.00	13,700.00
21 + miles	16,700.00	16,100.00
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
0 miles	\$ 9,500.00	\$ 9,000.00
1 - 10 miles	10,700.00	10,200.00
11 - 20 miles	13,100.00	12,600.00
21 + miles	15,500.00	15,000.00

Service availability limited. Refer to # footnote on Page 20-18.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(44) Transport - Banded Optical – STS1 (Wholly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
0 miles	\$1,800.00	\$1,700.00
1 - 10 miles	2,600.00	2,550.00
11 - 20 miles	4,000.00	3,800.00
21 + miles	5,200.00	4,900.00

	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
0 miles	\$ 1,600.00	\$1,500.00
1 - 10 miles	2,350.00	2,200.00
11 - 20 miles	3,500.00	3,200.00
21 + miles	4,600.00	4,300.00

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(45) Transport - Banded Optical# – OC48 (Wholly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
0 miles	\$ 7,365.00	\$ 7,200.00
1 - 10 miles	10,600.00	10,200.00
11 - 20 miles	17,070.00	16,800.00
21 + miles	23,545.00	23,200.00
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
0 miles	\$ 7,100.00	\$ 7,000.00
1 - 10 miles	10,000.00	9,800.00
11 - 20 miles	16,500.00	16,200.00
21 + miles	23,000.00	22,800.00

Service availability limited. Refer to # footnote on Page 20-18.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(46) Transport - Banded Optical# – OC48c (Wholly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
0 miles	\$10,750.00	\$10,500.00
1 - 10 miles	20,350.00	20,100.00
11 - 20 miles	29,370.00	29,100.00
21 + miles	38,390.00	38,100.00
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
0 miles	\$10,250.00	\$10,000.00
1 - 10 miles	19,900.00	19,600.00
11 - 20 miles	28,900.00	28,600.00
21 + miles	37,900.00	37,600.00

Service availability limited. Refer to # footnote on Page 20-18.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(47) Transport - Banded Optical – DS0 (Jointly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
1 - 10 miles	\$ 9.50	\$ 8.50
11 - 20 miles	11.25	10.25
21 + miles	14.25	13.25
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
1 - 10 miles	\$ 8.25	\$ 8.00
11 - 20 miles	10.00	9.75
21 + miles	12.75	12.50

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(48) Transport - Banded Optical – DS1 (Jointly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
1 - 10 miles	\$ 78.00	\$ 72.50
11 - 20 miles	110.00	105.00
21 + miles	150.00	143.00
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
1 - 10 miles	\$ 68.00	\$ 64.00
11 - 20 miles	101.00	94.00
21 + miles	135.00	126.00

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(49) Transport - Banded Optical – DS3 (Jointly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
1 - 10 miles	\$ 750.00	\$ 675.00
11 - 20 miles	2,200.00	2,025.00
21 + miles	3,700.00	3,400.00
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
1 - 10 miles	\$ 625.00	\$ 575.00
11 - 20 miles	1,920.00	1,815.00
21 + miles	3,100.00	2,900.00

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(50) Transport - Banded Optical# – OC3 (Jointly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
1 - 10 miles	\$1,600.00	\$1,500.00
11 - 20 miles	4,900.00	4,500.00
21 + miles	8,100.00	7,500.00
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
1 - 10 miles	\$1,450.00	\$1,400.00
11 - 20 miles	4,300.00	4,100.00
21 + miles	7,250.00	7,000.00

Service availability limited. Refer to # footnote on Page 20-18.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(51) Transport - Banded Optical# – OC12 (Jointly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
1 - 10 miles	\$2,650.00	\$ 2,500.00
11 - 20 miles	8,000.00	7,500.00
21 + miles	13,000.00	12,500.00
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
1 - 10 miles	\$ 2,450.00	\$ 2,400.00
11 - 20 miles	7,350.00	7,200.00
21 + miles	12,250.00	12,200.00

Service availability limited. Refer to # footnote on Page 20-18.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**(L) Rates and Charges (Cont'd)****(52) Transport - Banded Optical# – OC48 (Jointly Provided)**

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
1 - 10 miles	\$ 3,235.00	\$ 3,150.00
11 - 20 miles	9,700.00	9,500.00
21 + miles	16,175.00	15,700.00
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
1 - 10 miles	\$ 3,050.00	\$ 2,975.00
11 - 20 miles	9,300.00	9,100.00
21 + miles	15,350.00	15,100.00

Service availability limited. Refer to # footnote on Page 20-18.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)#****(A) General**

Dedicated SONET Optical Transport Service (DSOTS) provides managed optical transport of multiple protocols which are transmitted over a single fiber optic pair. DSOTS is configured in a diversely routed ring architecture or topology. The ring architecture allows for point-to-point optical services of varying wavelengths to be multiplexed on or off of the ring.

DSOTS allows for the native transmission of multiple high-speed protocols of various wavelengths over a single customized network. The wavelengths are arranged in a channelized format such that the protocol transmitted over each channel is independent of every other channel on the DSOTS ring. The customer must specify, by channel, the interface that defines the transmission speed and protocol being transmitted over the associated wavelength.

(B) Terms and Conditions

An DSOTS ring provides connectivity to multiple customer designated locations (nodes). The minimum node requirement for an DSOTS ring is as follows:

- (1) For DSOTS rings that are provided wholly by the Telephone Company, the ring must be configured in one of the following configurations:
 - (a) a minimum of three nodes provided by the Telephone Company at different locations. At least one of these nodes must be located in a Telephone Company central office (CO) and one must be located at a customer's designated location; or
 - (b) a minimum of two nodes provided by the Telephone Company at different locations and one or more network optimization mid-span amplifier(s). At least one of these devices (node or amplifier) must be located in a Company CO and at least one of the nodes must be located at a customer's designated location.

Effective February 15, 2007, orders for new DSOTS rings (including both partial and full rings) are no longer permitted. The Telephone Company will continue to provide DSOTS pursuant to this Section 6.8.25(C)(6) on any existing DSOTS that is in-service as of February 15, 2007, or any order for DSOTS that is placed with the Telephone Company prior to February 14, 2007 (collectively, Existing DSOTS), subject to the following conditions:

- a. For any Existing DSOTS that is currently subscribed to a term plan (i.e., commitment periods of 3-, 5-, and 7-years), the Telephone Company will continue to provide the Existing DSOTS for an additional six (6) months beyond the expiration date of the customer's current commitment period, or until the customer discontinues service, whichever comes first. Subject to availability of facilities and equipment, certain moves, additions, and/or changes to the Existing DSOTS are permitted provided that such moves, additions, and/or changes do not require a new commitment period or an extension to an existing commitment period.
- b. For any Existing DSOTS whose term plan expired prior to February 15, 2007, but the Existing DSOTS continued on a month-to-month basis at prevailing rates, the Telephone Company will continue to provide the Existing DSOTS until August 16, 2007, or until customer discontinues service, whichever comes first. Moves, additions, and/or changes are not permitted.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.1 **Dedicated SONET Optical Transport Service (DSOTS)#**

(B) **Terms and Conditions** (Cont'd)

- (2) For DSOTS rings that are jointly provided by the Telephone Company and one or more other exchange telephone companies in a multiple company billing arrangement as set forth in Section 2.4.7, the DSOTS ring must be configured with a minimum of three nodes or two nodes and one network optimization mid-span amplifier. A minimum of one device (node or mid-span amplifier) must be provided by the Telephone Company with that device being located in a Telephone Company CO and the remaining devices may be provided by one or more of the other exchange telephone companies jointly providing the service. If more than one device is provided by the Telephone Company, the additional devices may be located at either a customer designated location or in a Telephone Company CO. Jointly provided DSOTS rings must meet all of the same requirements that are set forth in this tariff for wholly provided DSOTS rings. The customer or third party is responsible for engineering its portion of the jointly provided ring.

When two nodes are located in the same building, there will be no diversity between the two nodes.

The DSOTS ring is comprised of nodes, ring mileage, network optimization (amplification) and optical transport channels. These elements are described in (C) following and are provided at the rates set forth in Sections 20.1(K) following.

Service availability limited. Refer to # footnote on Page 20-80.

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ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)****(B) Terms and Conditions (Cont'd)**

The customer will be billed additional charges for any charges levied the Telephone Company for space and power required to place nodes on the Company's side of the network interface.

Connection of SONET Connects to an DSOTS ring is provided over an equal speed optical transport channel (e.g. a 155.52 Mbps DSOTS channel would connect to an OC3 SONET Service found in Section 20). All other applicable SONET regulations as set forth in 20(G) preceding apply to the SONET Service.

Custom Connect and DSR are the only Ethernet Private Line SONET services that may be provided over an DSOTS backbone.

Connection of an Ethernet Private Line OC3c or OC12c Ethernet-to-SONET mapped service is provided over an equal speed SONET OC3c or OC12c protected optical transport channel as described in (C)(4) following.

Connection of an Ethernet Private Line 1 Gbps Ethernet Full Rate service is provided over a Gigabit Ethernet optical transport channel.

Connection of an Ethernet Private Line Gigabit Fibre Channel and/or Gigabit FICON service is provided over a Gigabit Fibre channel and/or Gigabit FICON optical transport channel.

An DSOTS ring may also be connected to a Telephone Company provided dedicated SONET ring, Telephone Company provided point-to-point SONET service, or Telephone Company Ethernet private line service provided that such connections are technically and operationally feasible, as determined by the Telephone Company.

The use of a multi-port interface card requires that all channels on a single card be interrupted during periods when the Telephone Company is performing maintenance on that card. No credit for such periods of interruption will apply.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)****(B) Terms and Conditions (Cont'd)**

The customer is responsible to ensure that its facilities and equipment meets any applicable technical requirements or limitations for the protocol being transmitted over the optical transport channels.

For DSOTS rings that are provided wholly by the Telephone company, the Telephone Company is responsible for the overall design and configuration of the DSOTS ring. Construction of the ring will not begin until such design and configuration are mutually agreeable to both the customer and the Telephone Company.

In the case of an DSOTS ring that is jointly provided by the Telephone Company and one or more other exchange telephone companies in a multiple billing arrangement as set forth in Section 2.4.7 preceding, the overall design and configuration of the DSOTS ring must be mutually agreeable to the Telephone Company, any other exchange telephone company(s) involved and to the customer. When the Telephone Company is an intermediate provider of transport as described in Section 2.4.7(B) preceding, at least one node of the DSOTS ring must be located in a Telephone Company CO.

Credit for service interruption of DSOTS is set forth in Section 2.7.1.1 preceding.

The technical specifications for DSOTS are delineated in Technical References GR-2918-CORE, Issue 6; GR-2979-CORE, Issue 5; GR-1312-CORE, Issue 3; ITU-T G.959.1; and ITU-T G.692. Technical specifications for the underlying protocols transmitted over the DSOTS ring are specified in (C)(4) following.

(C) Service Components

- (1) Nodes are dense wave division multiplexing (DWDM) devices located at customer designated premises or Telephone Company wire centers from which optical transport channels are multiplexed on or off of the DSOTS ring. The type of node that is deployed at each location is determined by the number of optical transport channels that will be multiplexed on or off of the DSOTS ring at that location.

4 Channel Node

Placement of a 4 channel node at a location enables up to 4 protected optical transport channels to be deployed. Each protected optical channel may be replaced by two unprotected optical channels up to a maximum of 8 possible channels on the node. A 4 channel node may be utilized as the primary node at a location or as an expansion node to expand the capacity of a 16 channel primary node. 4 channel nodes are subject to the availability of suitable facilities and equipment to provide such device. No more than one 4 channel node will be provided at a location.

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Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)****(C) Service Components (Cont'd)****16 Channel Node**

Placement of a 16 channel primary node at a location enables up to 16 protected optical transport channels to be deployed. Each protected optical channel may be replaced by two unprotected optical channels up to a maximum of 32 possible channels on the primary node.

The capacity of a 16 channel primary node may be increased through the addition of an expansion node at the same location. A 4 channel expansion node enables up to 20 protected optical transport channels (i.e., 16 on the primary node and 4 on the expansion node) to be deployed at a single location. Each protected optical channel may be replaced by two unprotected optical channels up to a maximum of 40 possible channels at that location. A 16-channel expansion node enables up to 32 protected optical transport channels (i.e., 16 on the primary node and 16 on the expansion node) to be deployed at a single location. Each protected optical channel may be replaced by two unprotected optical channels up to a maximum of 64 possible channels at that location.

The maximum number of optical transport channels that can be deployed at a single location is dependent upon the specific configuration of the DSOTS ring and the type of optical transport channels being deployed from that location.

- (2) Except as set forth in 2.4.7(B)(8) preceding, DSOTS Ring Mileage for a full ring service configuration is the total of airline distances between devices (nodes and amplifiers) rounded up to the nearest mile. The mileage rate is based on total ring capacity and not on individual services between devices. For example, the mileage charge for a five device ring with two mid-span amplifiers and a distance of 4.3 miles between each device (21.5 total miles) would be calculated by multiplying the mileage rate in Section 20.1(K) following by 22 miles. The mileage between devices (e.g., a primary node and an expansion node or an At-Node amplifier, as applicable) located at the same customer designated premises or Telephone Company wire center is zero. This mileage calculation applies regardless of the number of services on the ring.
- (3) Network Optimization provides for amplification of the signal to ensure acceptable optical levels. When required, amplification is performed at the node (primary node or expansion node) or in a Telephone Company wire center when mid-span amplification of the signal is required between nodes. Node amplification occurs in one or two directions (East to West and/or West to East). Amplification in two directions requires the use of two at-node amplifiers. Mid-span amplification occurs simultaneously in both directions (East to West and West to East). The Telephone Company shall have sole responsibility in determining when amplification is required and the quantity and type of amplification necessary to maintain acceptable optical levels.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)****(C) Service Components (Cont'd)**

- (4) Optical transport channels allow for optical services to be multiplexed on to or off of the DSOTS ring at locations equipped with an DSOTS node. An optical interface at the node allows for connection of the applicable protocol to the customer's equipment. Optical transport channels are provided on a point-to-point basis and are available on a protected or unprotected basis depending on the protocol being transmitted and the level of redundancy required for the optical channel. These channels may be ordered using a single-port interface (each a single channel per interface card) or using a multi-port interface. A multi-port interface is a facility capable of supporting up to 4 multi-port channels of ESCON, Fiber Channel, FDDI, Fast Ethernet, D1 Video, or any combination of these multi-port channels. A multi-port optical transport channel provides a two-point facility over the DSOTS ring for the purpose of aggregating multiple optical channels over a single wavelength.

Some protocols have facility distance limitations and may affect the design or availability of the DSOTS ring or its optical transport channels. The multi-port interface is provided with a short reach, 2-fiber interface with a 1310nm signal.

A protected optical channel allows for a single signal from the customer to be duplicated and sent over separate diverse routes (working and protected) within the DSOTS network.

An unprotected optical channel provides minimum protection of the signal from the customer as the signal is routed over a single path.

Optical transport channels are delivered over a single-port interface or multi-port interface unless otherwise specified. The use of a multi-port interface and the type of optical transport channels that can be provided over a single-port or multi-port interface are subject to the availability of suitable equipment to provide the requested service.

All signals generated by Customer provided equipment and delivered to the Telephone Company for multiplexing on to DSOTS must meet industry standards and specifications for the underlying protocol. The customer is responsible to perform any error detection and error correction of the data generated by its equipment. The Telephone Company assumes no responsibility for the quality of the signal generated by the customer or any customer provided equipment and will deliver the signal to the receiving location in the same format and condition as generated by the customer.

Optical transport channels used in the provision of Switched Access Services are limited to SONET OC3, OC12, OC48 and OC192 protected or unprotected optical transport channels.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.1 **Dedicated SONET Optical Transport Service (DSOTS)#** (Cont'd)

(C) **Service Components** (Cont'd)

(4) (Cont'd)

SONET OC3 – for transmission of 155.52 Mbps synchronous optical data transmission capability. SONET OC3 is delivered over a single-port interface only.

SONET OC3c – for transmission of concatenated 155.52 Mbps synchronous optical data transmission capability. SONET OC3c is delivered over a single-port interface only.

SONET OC12 – for transmission of 622.08 Mbps synchronous optical data transmission capability. SONET OC12 is delivered over a single-port interface only.

SONET OC12c – for transmission of concatenated 622.08 Mbps synchronous optical data transmission capability. SONET OC12c is delivered over a single-port interface only.

SONET OC48 – for transmission of 2.488 Gbps synchronous optical data transmission capability. SONET OC48 is delivered over a single-port interface only.

SONET OC48c – for transmission of concatenated 2.488 Gbps synchronous optical data transmission capability. SONET OC48c is delivered over a single-port interface only.

SONET OC192 – for transmission of 9.953 Gbps synchronous optical data transmission capability. SONET OC192 is delivered over a single-port interface only.

SONET OC192c – for transmission of concatenated 9.953 Gbps synchronous optical data transmission capability. SONET OC192c is delivered over a single-port interface only.

ESCON* – for transmission of one 200 Mbps Enterprise Service Connection channel between the same two DSOTS nodes used for computer-to-computer data exchange. An ESCON signal is limited to a maximum distance of 43km (physical route kilometers) between the locations involved. ESCON is delivered over a multi-port interface only.

FICON* – for transmission of 1 Gbps and 2 Gbps Fiber Connection among mainframes, storage devices and peripherals on a single channel. A FICON signal is limited to a maximum distance of 100km (physical route kilometers) between the locations involved. FICON is delivered over a single-port interface only.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)
- 20.1 **Dedicated SONET Optical Transport Service (DSOTS)#** (Cont'd)
- (C) **Service Components** (Cont'd)
- (4) (Cont'd)

The Telephone Company will transmit the following protocols over DSOTS optical transport channels (Cont'd):

Fiber Channel* – for transmission of 2.125 Gbps, 1.0625 Gbps, 531 Mbps, 266 Mbps and 133 Mbps signals in a serial link between supercomputers, mainframes, workstations, desktop computers, storage devices, displays and other peripherals. A Fiber Channel signal is limited to a maximum distance of 100km (physical route kilometers) between the locations involved. Fiber Channel signals at transmission speeds of 2.125 Gbps, 1.0625 Gbps, 531 Mbps, 266 Mbps, and 133 Mbps are delivered over a single-port interface. Fiber Channel signals at transmission speeds of 266 Mbps and 133 Mbps may also be delivered over a multi-port interface.

ETR/CLO* – a channel for transmission of an 8 Mbps External Timing Reference/Control Link Oscillator signal for distributing time-of-day information to all central processing units in the Sysplex and to keep the Sysplex timer units synchronized with each other. An ETR/CLO signal is limited to a maximum distance of 40km (physical route kilometers) between the locations involved. ETR/CLO is delivered over a single-port interface only.

FDDI* – for transmission of 100 Mbps Fiber Distributed Data Interface channels for general purpose interconnection between computers and peripheral equipment, including interconnection of Local Area Networks and other networks. FDDI is delivered over a single-port or multi-port interface.

ISC* – for transmission of 1.06 Gbps InterSystem Channel for data caching, locking and queuing services between coupling facility and a central processing unit. An ISC signal is limited to a maximum distance of 40km (physical route kilometers) between the locations involved. ISC is delivered over a single-port interface only.

ISC3* – for transmission of 2.125Gbps InterSystem Channel for data caching, locking and queuing services between coupling facility and a central processing unit. An ISC3 signal is limited to a maximum distance of 40km (physical route kilometers) between the locations involved. ISC3 is delivered over a single-port interface only.

Fast Ethernet* – for 100 Mbps transmission of Ethernet. Fast Ethernet is delivered over a single-port or multi-port interface.

Gigabit Ethernet* – for 1.0 Gbps transmission of Ethernet. Gigabit Ethernet is delivered over a single-port interface only.

10 Gigabit Ethernet LAN-PHY – 10GBASE-R (LAN PHY) interfaces offer an effective line rate of 10.3125 Gbps (10 Gbps of data traffic encoded in a 64B/66B protocol compared to the traditional 8B/10B protocol of Gigabit Ethernet). 10 Gigabit Ethernet LAN-PHY is delivered over a single-port interface only.

10 Gigabit Ethernet WAN-PHY – 10GigE data rate and format compatible with the SONET OC192c transmission format defined by ANSI. 10 Gigabit Ethernet WAN-PHY is delivered over a single-port interface only.

D1 Video* – for uncompressed digital transmission of video signals operating at 270 Mbps. D1 Video is delivered over a single-port or multi-port interface.

* Denotes a data optical transport channel.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)#**(Cont'd)(C) Service Components (Cont'd)

(4) (Cont'd)

The technical specifications for the protocols transmitted over DSOTS optical transport channels are delineated in the following Technical References:

<u>Protocol Transmitted</u>	<u>Technical Reference</u>
SONET OC3, OC12, OC48	GR-253-CORE, Issue 4
SONET OC3c, OC12c, OC48c	GR-253-CORE, Issue 4
SONET OC192, OC192c	GR-253-CORE, Issue 4
ESCON, FICON	SA23-0394-06 GA23-0367-12 ANSI INCITS 296-1997 (R2007)
ISC	SG24-5638-00
ISC3	SA23-0395-05
ETR/CLO	SG24-2070-00
Fiber Channel	ANSI INCITS 303-1998 (R2003)
FDDI	IEEE 802.3u-1995 ANSI INCITS 166-1989 (R2005) ANSI INCITS 148-1988 (R2004)
Fast Ethernet	IEEE 802.3-2005/Cor2/D2.0-2007 IEEE 802.3z-1998
Gigabit Ethernet	IEEE 802.3-2005/Cor2-2007 IEEE 802.3z-1998
10 Gigabit Ethernet WAN-PHY	IEEE 802.3ae-2002 with WAN Interface Sublayer
10 Gigabit Ethernet LAN-PHY	IEEE 802.3ae-2002 with LAN Interface Sublayer
D1 Video	SMPTE 0259M-2008

Service availability limited. Refer to # footnote on Page 20-80.

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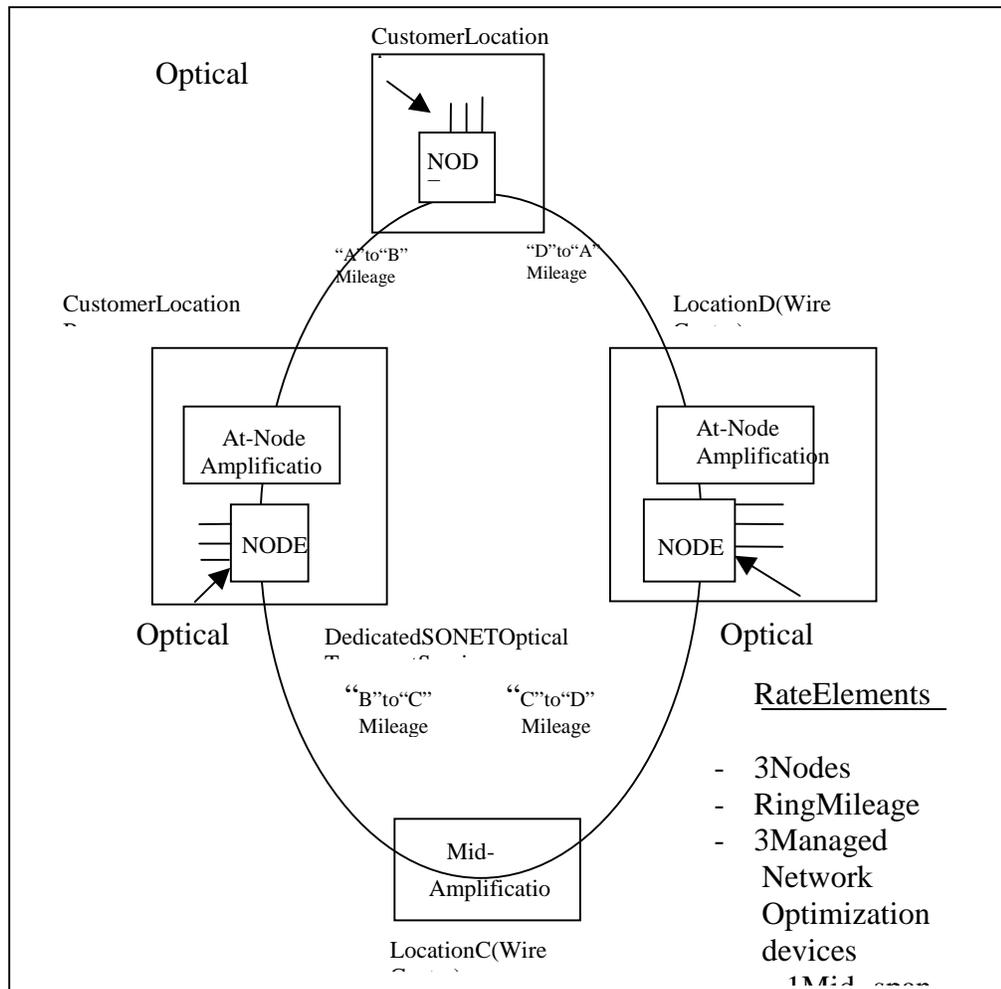
ACCESS SERVICE

20. Ethernet Private Line (Cont'd)

20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)

(C) Service Components (Cont'd)

(5) An example of an Dedicated SONET Optical Transport Service Ring is diagrammed below:



Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)****(D) Application of Rates and Charges**

- (1) DSOTS is available for 3, 5 and 7 year commitment periods for the nodes, ring mileage, network optimization at-node amplification (subject to (D)(10) following), network optimization mid-span amplification and optical transport channels.
- (2) Nodes, network optimization mid-span amplification and SONET optical transport channels added subsequent to the initial installation may be coterminous to the expiration date of the DSOTS at the rates and charges specified for the term plan on the existing DSOTS or may require an extension to the existing plan as follows. If the addition is prior to the 21st month for an existing 3-year plan, prior to the 36th month for an existing 5-year plan, or prior to the 50th month for an existing 7-year plan, the addition will be coterminous to the expiration date of the DSOTS. If the addition is after the aforementioned periods, the customer must extend the commitment period of its existing plan for an additional one-year for a 3-year plan, an additional 2 years for a 5-year plan, or an additional 3 years for a 7-year plan. SONET services associated with DSOTS are subject to the termination liability set forth in Section 20(G) preceding.
- (3) Effective August 16, 2005, separate rates and charges for network optimization at-node amplification apply subject to (D)(10) following.
- (4) Data optical transport channels added subsequent to the initial installation will be coterminous to the expiration date of the DSOTS at the rates and charges specified for the term plan on the existing DSOTS. These channels are subject to a minimum service period of three months.
- (5) The addition of SONET and/or Data optical transport channels subsequent to the initial installation of service may also require the addition of an expansion node(s) and/or network optimization device(s) to accommodate the increase in channels. The addition of an expansion node or network optimization is subject to the conditions set forth above.
- (6) Monthly recurring charges apply for the nodes, ring mileage, network optimization and optical transport channels. The monthly rate for an optical transport channel applies for the entire point-to-point connection. Once a term period expires, the prevailing rates of the current plan will continue until the customer cancels service or requests a new term plan.
- (7) When the optical transport channel is provided with a multi-port interface, rates and charges apply for the multi-port facility and for each multi-port channel riding the multi-port facility. When an optical transport channel is delivered over a multi-port interface, the multi-port facility and each multi-port channel riding the multi-port facility must be billed to the same customer who subscribes to the DSOTS ring.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)****(D) Application of Rates and Charges (Cont'd)**

(8) The rate and charges for optical transport channels delivered over a single-port or multi-port interface are set forth in Section 20.1(K)(4) or 20.1(K)(5), respectively, following.

(9) Nonrecurring charges for DSOTS apply for the initial installation of service and for any subsequent network optimization mid-span amplification or optical transport channel that is added at any time after the initial installation of service. A nonrecurring charge also applies to upgrade a 4 channel primary node to a 16 channel primary node or a 4 channel expansion node to a 16 channel expansion node.

(10) Rates and charges for DSOTS nodes, ring mileage, network optimization at-node amplification, network optimization mid-span amplification and optical transport channels which are in-service as of, or ordered prior to August 16, 2005 are subject to Category I rates, unless the customer has converted to Category II rates under (D)(10)(c) following.

Rates and charges for DSOTS nodes, ring mileage, network optimization mid-span amplification and optical transport channels which are installed on or after August 16, 2005 are subject to Category II rates. Category II rates also apply to DSOTS which are converted from Category I under (D)(10)(c) following.

(a) Category I rates are grandfathered as of August 16, 2005 and apply to DSOTS that is in-service as of, or ordered prior to, August 16, 2005 under this Section 20, unless the customer elects to convert DSOTS billing to Category II rates in accordance with (D)(10)(c) following. Category I rates are subject to separate rates and charges for network optimization at-node amplification.

(b) Category II rates apply to each DSOTS which is ordered on or after August 16, 2005 under this Section 20.1. Category II rates also apply to nodes, network optimization, mileage, and optical transport channels which are ordered on or after August 16, 2005 as an addition to an existing DSOTS, regardless of whether or not such existing DSOTS is subject to Category I or Category II rates. When the Telephone Company's network design for such addition to an existing DSOTS requires that a network optimization at-node amplifier be added to an existing node that is billed at Category I rates, the billing for such node will be converted to the Category II node rate element, which node rate element includes amplification at the node.

Category II rates also apply to DSOTS that are converted from Category I rates to Category II rates in accordance with (D)(10)(c) following. Category II rates do not include separate rates and charges for network optimization at-node amplification which is provided as part of the node rate element on or after August 16, 2005.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)****(D) Application of Rates and Charges (Cont'd)**

(10) (Cont'd)

(c) A customer subject to Category I rates under (a) preceding may convert to Category II rates subject to the following:

(1) The customer must submit an access order for the conversion to Category II rates.

(2) Separate rates and charges applicable to network optimization at-node amplification under Category I rates shall cease coincident with the date that billing at Category II rates commences.

(3) A new commitment period commences with the conversion from Category I rates to Category II rates. The customer must select a new commitment period from those offered under (D)(1) preceding. The new commitment period must be equal to, or longer than, the original commitment period for the DSOTS that was subject to the Category I rates. For example, an DSOTS under a 5-year commitment period at Category I rates may only convert to a new 5-year commitment period or a new 7-year commitment period upon conversion to Category II rates.

(4) There can be no physical work activity (e.g., moves, additions, changes) associated with the orders for conversion to Category II rates. Upon conversion, all terms and conditions of this tariff shall apply to the converted DSOTS service, including any applicable termination liability and minimum period obligations.

(5) When the conversion is ordered between the period beginning August 16, 2005 and ending November 16, 2005, the conversion will not be subject to minimum period and/or termination liability as they may otherwise apply for early termination of the Category I term plan, provided that the conditions set forth in (1) through (4) preceding are met.

Conversion from Category I rates to Category II rates that is ordered after November 16, 2005 is subject to all minimum period and/or termination liability as they apply for early termination of the Category I term plan. Additionally, conversion to Category II rates ordered after November 16, 2005 is subject to the requirements set forth in (1) through (4) preceding.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)****(D) Application of Rates and Charges (Cont'd)**

(11) A change in the type (e.g., Fiber Channel to FICON) or optical carrier rate (e.g., OC3 to OC12) of optical transport channel is treated as a discontinuance of the existing channel and an installation of a new optical transport channel.

(12) When an optical transport channel is ordered to connect with SONET Services, the optical transport channel will be billed to the SONET customer. Optical transport channels ordered on or after August 16, 2005 are provided at Category II rates.

(13) When an optical transport channel is ordered to connect to a Telephone Company provided dedicated SONET ring, Telephone Company provided point-to-point SONET service, or Telephone Company Ethernet private line service, the optical channel will be billed to the dedicated SONET ring, point-to-point SONET service, or Ethernet private line service customer.

Termination Liability

(E) Termination liability applies to DSOTS and is charged per monthly rate element on all nodes, network optimization, SONET optical transport channels and Network Management Methods. SONET services associated with DSOTS are subject to the termination liability in Section 20(G)(5). Data optical transport channels as set forth in (C) preceding are not subject to termination liability; however, such channels are subject to a minimum service period of three-months.

(2) A separate termination liability charge is assessed for each rate element associated with the disconnected DSOTS or a Network Management Method. For example, assume that the customer subscribes to an DSOTS ring that is arranged with the Direct TL1 Monitoring Optional Feature, as set forth in (L)(2) following. Further, assume that the customer disconnects the DSOTS ring along with the Direct TL1 Monitoring Optional Feature prior to the end of the commitment period. Then, the customer shall pay termination liability on the nodes, network optimization, partial ring high-speed interfaces, optical transport channels and the Direct TL1 Monitoring Optional Feature monthly recurring rate elements as set forth in this section.

(3) DSOTS or a Network Management Method may be canceled without termination liability when cancellation of the DSOTS or Network Management Method occurs within thirty (30) days of the effective date of a Telephone Company initiated rate increase of eight percent (8%) or more on any rate applicable to the DSOTS service or Network Management Method.

(4) Termination liability will not apply on any DSOTS service or Network Management Method if (1) a customer changes its term plan to a longer commitment period; or (2) a 4 channel primary node is upgraded to a 16 channel primary node; (3) a 4 channel expansion node is upgraded to a 16 channel expansion node; or (4) a term plan subject to Category I rates is converted to a new term plan subject to Category II rates, when such conversion satisfies the conditions in (D)(10)(c) preceding and is ordered on or before November 16, 2005.

(5) Termination liability will apply when the conditions above are not met and the customer cancels service prior to expiration of the plan period. If the cancellation occurs within the first two years of a term plan, termination liability is equal to 100 percent of the monthly charges for the unexpired portion of the first two years, and 25 percent of the monthly charges for the remainder of the plan. If the customer cancels after the first two years of service, then termination liability is equal to 25 percent of the monthly charges for the remaining life of the term.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)# Cont'd)****(E) Termination Liability (Cont'd)**

- (6) For DSOTS with a commitment period which was extended under (I) following, termination liability is calculated as the difference between (1) the monthly rates for the highest Term Pricing Plan commitment period that could have been satisfied prior to disconnection of the service or cancellation of the plan and (2) the monthly rates already paid during both the initial commitment period and the extended commitment period for the period of time the service was in effect.

(F) Conversions

- (1) Customers who wish to move or convert existing SONET, High Capacity Switched Access Entrance Facilities or High Capacity Special Access Services to DSOTS may do so without conversion charges (termination liability and installation charges) as long as the total capacity of the SONET, Switched Access Entrance Facility or Special Access Service purchased by the customer does not decrease.
- (2) Customers who wish to convert existing DSOTS under a term plan with Category I rates to a new term plan with Category II rates may do so without conversion charges (minimum period obligations, termination liability, and installation charges) as long as the requirements set forth in (D)(10)(c) are met and is ordered on or before November 16, 2005.

(G) Deployment and Availability

Since DSOTS is a dedicated high capacity customized network, it is deployed upon customer request. Where suitable facilities are not generally available, rates and charges as set forth in the Telephone Company's TARIFF F.C.C. NO. 7, Special Construction, may apply.

DSOTS is available based on negotiated intervals as described in 3.2.1 preceding.

(H) Shared Use

The general regulations applicable to the shared use of Ethernet Private Line are set forth in Section 20(I) preceding. In the case of DSOTS, the monthly rate for the Switched Access DSOTS Service ring mileage, node and network optimization rates will be reduced accordingly based upon the total channel capacity of the DSOTS ring and the monthly rate for the equivalent Special Access ring mileage, node and network optimization rate elements will apply. The total channel capacity for an DSOTS ring is measured in terms of the total number of optical transport channels that can be transported over the ring.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)#(Cont'd)****(l) Extension of a Commitment Period**

- (1) The customer has the option, at any time prior to the expiration date for its commitment period, to extend its Term Pricing Plan to a plan with a longer commitment period, for which time-in-service credit will be allowed for the plan being extended. The commitment period selected for the extended plan must be longer than the commitment period of the plan being extended.
 - A 3-Year Term may be extended to either a 5-Year or 7-Year Term Plan.
 - A 5-Year Term may be extended to a 7-Year Term Plan.
- (2) Time-in-service credit on the plan being extended will be granted and applied towards the new extended plan. For example, an DSOTS with a 3-Year term plan that has been in-service for 18 months will allow for 18 months of time-in-service credit towards the extended plan.
- (3) A Category I term plan that is converted under (D)(10)(c) preceding to a Category II term plan is not eligible for time-in-service credit on the Category II term plan.
- (4) The rate for the longer commitment period will apply effective with the first bill day following the order to extend the plan and continue through the remainder of the commitment period associated with the extended plan. No adjustment for the increased discount associated with the extended plan will be made to the monthly rates already billed on the plan being extended.
- (5) The customer may also extend the commitment period in order to install additional nodes, network optimization devices or SONET optical channels as described in (D) preceding.
- (6) Extension of a term pricing plan subject to Category I rates will be extended at Category I rates. However, nodes, network optimization, ring mileage and optical transport channels added during the period of extension are subject to Category II rates unless otherwise specified.
- (7) Extension of a term pricing plan under Category II rates will be extended at Category II rates.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)#(Cont'd)****(J) Channel Interface Codes**

The following channel interface codes is used for the DSOTS ring:

NCI

02FMF.4 for 4 Channel Node (Primary or Expansion)

02FMF.16 for 16 Channel Node (Primary or Expansion)

The following channel interface codes are used for channels using wavelengths on the DSOTS ring:

02FCF.10C (FDDI SM 125 Mbps)

02FCF.10D (FDDI MM 125 Mbps)

02FCF.15 (SONET OC3/OC3c)

02FCF.62 (SONET OC12/OC12c)

02FCF.25 (SONET OC48/OC48c)

02SOF.B,D,F,X (SONET OC192/192c)

02FCF.CCS (ESCON)

02FCF.CTS (ETR/CLO)

02FCF.FC (1.0625 Gbps Fiber Channel)

02FCF.FC1 (133 Mbps Fiber Channel)

02FCF.FC2 (266 Mbps Fiber Channel)

02FCF.FC5 (531 Mbps Fiber Channel)

02OPF.A02, A04, A07 (2.125 Gbps Fibre Channel)

02FCF.GFM (1Gbps FICON)

02OPF.A02, A04, A07 (2.125 Gbps FICON)

02FCF.GIS (ISC)

02OPF.A02, A04, A07 (ISC3 at 2.125Gbps)

02FMF.S (DWDM 4-Port 1.25 Gbps)

02LNF.100 (Fast Ethernet)

02LNF.1GE (Gigabit Ethernet)

02LNF.A02 (10 Gigabit Ethernet WAN-PHY)

02LNF.A02 (10 Gigabit Ethernet LAN-PHY)

02TD6.E (D1 Video)

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE**20. Ethernet Private Line** (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)#** (Cont'd)(K) Rates and Charges(1) Nodes, per node
(Jurisdiction: Illinois)

	<u>Category I</u>		
	Monthly	Nonrecurring <u>Rate</u>	Initial <u>Charge</u>
<u>3-Year Term/4 Channel Nodes</u>			
Primary or Expansion			
Customer Premises Node		\$ 7,500.00	\$1.00
Primary or Expansion			
Central Office Node		7,500.00	1.00
<u>3-Year Term/16 Channel Nodes</u>			
Primary Customer Premises Node		12,500.00	1.00
Primary Central Office Node		12,500.00	1.00
Expansion Customer Premises Node		12,500.00	1.00
Expansion Central Office Node		12,500.00	1.00
<u>5-Year Term/4 Channel Nodes</u>			
Primary or Expansion			
Customer Premises Node		3,900.00	1.00
Primary or Expansion			
Central Office Node		3,900.00	1.00
<u>5-Year Term/16 Channel Nodes</u>			
Primary Customer Premises Node		6,500.00	1.00
Primary Central Office Node		6,500.00	1.00
Expansion Customer Premises Node		6,500.00	1.00
Expansion Central Office Node		6,500.00	1.00
<u>7-Year Term/4 Channel Nodes</u>			
Primary or Expansion			
Customer Premises Node		3,480.00	1.00
Primary or Expansion			
Central Office Node		3,480.00	1.00
<u>7-Year Term/16 Channel Nodes</u>			
Primary Customer Premises Node		5,800.00	1.00
Primary Central Office Node		5,800.00	1.00
Expansion Customer Premises Node		5,800.00	1.00
Expansion Central Office Node		5,800.00	1.00

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE20. Ethernet Private Line (Cont'd)20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)(K) Rates and Charges (Cont'd)(1) Nodes, per node (Cont'd)
(Jurisdiction: Illinois)

		<u>Category II</u>	
	Monthly	<u>Nonrecurring Rate</u>	<u>Initial Charge</u>
<u>3-Year Term/4 Channel Nodes</u>			
Primary or Expansion			
Customer Premises Node		\$ 8,000.00	\$1.00
Primary or Expansion			
Central Office Node		8,000.00	1.00
<u>3-Year Term/16 Channel Nodes</u>			
Primary Customer Premises Node			
		11,130.00	1.00
Primary Central Office Node			
		11,130.00	1.00
Expansion Customer Premises Node			
		11,130.00	1.00
Expansion Central Office Node			
		11,130.00	1.00
<u>5-Year Term/4 Channel Nodes</u>			
Primary or Expansion			
Customer Premises Node		6,000.00	1.00
Primary or Expansion			
Central Office Node		6,000.00	1.00
<u>5-Year Term/16 Channel Nodes</u>			
Primary Customer Premises Node			
		8,350.00	1.00
Primary Central Office Node			
		8,350.00	1.00
Expansion Customer Premises Node			
		8,350.00	1.00
Expansion Central Office Node			
		8,350.00	1.00
<u>7-Year Term/4 Channel Nodes</u>			
Primary or Expansion			
Customer Premises Node		5,500.00	1.00
Primary or Expansion			
Central Office Node		5,500.00	1.00
<u>7-Year Term/16 Channel Nodes</u>			
Primary Customer Premises Node			
		8,250.00	1.00
Primary Central Office Node			
		8,250.00	1.00
Expansion Customer Premises Node			
		8,250.00	1.00
Expansion Central Office Node			
		8,250.00	1.00

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20.	<u>Ethernet Private Line</u> (Cont'd)		
20.1	<u>Dedicated SONET Optical Transport Service (DSOTS)#</u> (Cont'd)		
(K)	<u>Rates and Charges</u> (Cont'd)		
(1)	Nodes, per node (Cont'd) (Jurisdiction: Illinois)		
			<u>Category I</u>
	Subsequent Installation or Augmentation, per 4 channel or 16 channel Primary or Expansion node		Nonrecurring <u>Charge</u> \$ 1,600.00
	Upgrade to 16 channel Primary or Expansion Node, Per 4 channel Primary or Expansion Node Upgraded	T	20,000.00
			<u>Category II</u>
	Subsequent Installation or Augmentation, per 4 channel or 16 channel Primary or Expansion node	I	Nonrecurring <u>Charge</u> 1,600.00
	Upgrade to 16 channel Primary or Expansion Node, Per 4 channel Primary or Expansion Node Upgraded		20,000.00

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE**20. Ethernet Private Line** (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)#** (Cont'd)**(K) Rates and Charges** (Cont'd)

(2) Ring Mileage, per mile

(Jurisdiction: Illinois)

	I	<u>Category I</u>
		<u>Monthly Rate</u>
3-Year Term		
Mile 1 – 20		\$1,100.00
Mile 21 and Over		520.00
5-Year Term		
Mile 1 – 20		639.00
Mile 21 and Over		300.00
7-Year Term		
Mile 1 – 20		575.00
Mile 21 and Over		270.00
		<u>Category II</u>
Ring Mileage, per mile		<u>Monthly Rate</u>
3-Year Term		
Mile 1 – 20		310.00
Mile 21 and Over		310.00
5-Year Term		
Mile 1 – 20		230.00
Mile 21 and Over		230.00
7-Year Term		
Mile 1 – 20		225.00
Mile 21 and Over		225.00

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.1 **Dedicated SONET Optical Transport Service (DSOTS)#**(Cont'd)

(K) Rates and Charges (Cont'd)

(3) Network Optimization,
per amplification device

(Jurisdiction: Illinois)

Category I

	I	<u>Monthly Rate</u>	<u>Initial Nonrecurring Charge</u>
At Node 3-Year Term		\$5,000.00	\$1.00
At Node 5-Year Term		2,650.00	1.00
At Node 7-Year Term		2,400.00	1.00
Mid-span 3-Year Term		5,400.00	1.00
Mid-span 5-Year Term		2,800.00	1.00
Mid-span 7-year Term		2,600.00	1.00

Category II

	I	<u>Monthly Rate</u>	<u>Initial Nonrecurring Charge</u>
Mid-span 3-Year Term		6,200.00	1.00
Mid-span 5-Year Term		4,650.00	1.00
Mid-span 7-year Term		4,600.00	1.00

(4)

Subsequent installation,
per amplification device

Category I

Nonrecurring
Charge

\$1,600.00

Category II

Subsequent installation,
per amplification device

I
Nonrecurring
Charge

1,600.00

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE**20. Ethernet Private Line (Cont'd)****20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)****(K) Rates and Charges (Cont'd)****(5) Optical Transport Channels
Single/Multi-Port Interface****(a) Monthly Rates
(Jurisdiction: Illinois)**

	I	<u>Category I</u>
		<u>Monthly Rate</u>
<u>Interface Type</u>		<u>3-Year Term</u>
Unprotected SONET OC3/OC3c	*	\$ 850.00
Unprotected SONET OC12/OC12c	*	1,400.00
Unprotected SONET OC48/OC48c	*	3,450.00
Unprotected SONET OC192/OC192c	*	5,800.00
Unprotected 1 Gbps FICON		3,450.00
Unprotected 2 Gbps FICON		3,450.00
Unprotected Fiber Channel		3,450.00
Unprotected 2Gbps Fiber Channel		3,450.00
Unprotected ETR/CLO		3,450.00
Unprotected FDDI		3,450.00
Unprotected 1.06 Gbps ISC		3,450.00
Unprotected 2Gbps ISC3		3,450.00
Unprotected Fast Ethernet		3,450.00
Unprotected Gigabit Ethernet		3,450.00
Unprotected 10 Gigabit Ethernet		3,450.00
LAN-PHY/WAN-PHY		5,800.00
Unprotected D1 Video		3,450.00
Unprotected Multi-Port Facility		4,700.00
Unprotected Multi-Port Channel		
ESCON		225.00
Fiber Channel		225.00
FDDI		225.00
Fast Ethernet		225.00
D1 Video		225.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)
- (K) Rates and Charges (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (a) Monthly Rates (Cont'd)
(Jurisdiction: Illinois)

	<u>Category I</u>
	<u>Monthly Rate</u>
<u>Interface Type</u>	<u>3-Year Term</u>
Protected SONET OC3/OC3c	* \$1,400.00
Protected SONET OC12/OC12c	* 1,950.00
Protected SONET OC48/OC48c	* 4,100.00
Protected SONET OC192/OC192c	7,000.00
Protected 1 Gbps FICON	4,200.00
Protected 2 Gbps FICON	4,200.00
Protected Fiber Channel	4,200.00
Protected 2 Gbps Fiber Channel	4,200.00
Protected FDDI	4,200.00
Protected 1.06 Gbps ISC	4,200.00
Protected 2 Gbps ISC3	4,200.00
Protected Fast Ethernet	4,200.00
Protected Gigabit Ethernet	4,200.00
Protected 10 Gigabit Ethernet	4,200.00
LAN-PHY/WAN-PHY	7,000.00
Protected D1 Video	4,200.00
Protected Multi-Port Facility	5,700.00
Protected Multi-Port Channel	
ESCON	225.00
Fiber Channel	225.00
FDDI	225.00
Fast Ethernet	225.00
D1 Video	225.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)
- (K) Rates and Charges (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (a) Monthly Rates (Cont'd)
(Jurisdiction: Illinois)

		<u>Category I</u>
		<u>Monthly Rate</u>
<u>Interface Type</u>		<u>5-Year Term</u>
Unprotected SONET OC3/OC3c	*	\$ 450.00
Unprotected SONET OC12/OC12c	*	725.00
Unprotected SONET OC48/OC48c	*	1,870.00
Unprotected SONET OC192/OC192c	*	4,100.00
Unprotected 1 Gbps FICON		1,800.00
Unprotected 2 Gbps FICON		1,900.00
Unprotected Fiber Channel		1,800.00
Unprotected 2 Gbps Fiber Channel		1,900.00
Unprotected ETR/CLO		1,800.00
Unprotected FDDI		1,800.00
Unprotected 1.06 Gbps ISC		1,800.00
Unprotected 2 Gbps ISC3		1,900.00
Unprotected Fast Ethernet		1,800.00
Unprotected Gigabit Ethernet		1,800.00
Unprotected 10 Gigabit Ethernet LAN-PHY/WAN-PHY		4,100.00
Unprotected D1 Video		1,800.00
Unprotected Multi-Port Facility		2,500.00
Unprotected Multi Port Channel		
ESCON		225.00
Fiber Channel		225.00
FDDI		225.00
Fast Ethernet		225.00
D1 Video		225.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)
- (K) Rates and Charges (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (a) Monthly Rates (Cont'd)
(Jurisdiction: Illinois)

	<u>Category I</u>
	<u>Monthly Rate</u>
<u>Interface Type</u>	<u>5-Year Term</u>
Protected SONET OC3/OC3c	* \$ 725.00
Protected SONET OC12/OC12c	* 1,000.00
Protected SONET OC48/OC48c	* 2,150.00
Protected SONET OC192/OC192	5,600.00
Protected 1 Gbps FICON	2,200.00
Protected 2 Gbps FICON	2,300.00
Protected Fiber Channel	2,200.00
Protected 2Gbps Fiber Channel	2,300.00
Protected FDDI	2,200.00
Protected 1.06 Gbps ISC	2,200.00
Protected 2 Gbps ISC3	2,300.00
Protected Fast Ethernet	2,200.00
Protected Gigabit Ethernet	2,200.00
Protected 10 Gigabit Ethernet	2,200.00
LAN-PHY/WAN-PHY	5,600.00
Protected D1 Video	2,200.00
Protected Multi-Port Facility	3,000.00
Protected Multi-Port Channel	
ESCON	225.00
Fiber Channel	225.00
FDDI	225.00
Fast Ethernet	225.00
D1 Video	225.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)#(Cont'd)
- (K) Rates and Charges (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (a) Monthly Rates (Cont'd)
(Jurisdiction: Illinois)

	<u>Category I</u>
	<u>Monthly Rate</u>
<u>Interface Type</u>	<u>7-Year Term</u>
Unprotected SONET OC3/OC3c	* \$ 400.00
Unprotected SONET OC12/OC12c	* 650.00
Unprotected SONET OC48/OC48c	* 1,625.00
Unprotected SONET OC192/OC192c	* 3,250.00
Unprotected 1 Gbps FICON	1,600.00
Unprotected 2 Gbps FICON	1,600.00
Unprotected Fiber Channel	1,600.00
Unprotected 2 Gbps Fiber Channel	1,600.00
Unprotected ETR/CLO	1,600.00
Unprotected FDDI	1,600.00
Unprotected 1.06 Gbps ISC	1,600.00
Unprotected 2 Gbps ISC3	1,600.00
Unprotected Fast Ethernet	1,600.00
Unprotected Gigabit Ethernet	1,600.00
Unprotected 10 Gigabit Ethernet	
LAN-PHY/WAN-PHY	3,250.00
Unprotected D1 Video	1,600.00
Unprotected Multi-Port Facility	2,200.00
Unprotected Multi-Port Channel	
ESCON	225.00
Fiber Channel	225.00
FDDI	225.00
Fast Ethernet	225.00
D1 Video	225.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)
- 20.1 **Dedicated SONET Optical Transport Service (DSOTS)#**(Cont'd)
- (K) **Rates and Charges** (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (a) Monthly Rates (Cont'd)
(Jurisdiction: Illinois)

	<u>Category I</u>
	<u>Monthly Rate</u>
<u>Interface Type</u>	<u>7-Year Term</u>
Protected SONET OC3/OC3c	* \$ 650.00
Protected SONET OC12/OC12c	* 900.00
Protected SONET OC48/OC48c	* 1,925.00
Protected SONET OC192/OC192c	4,750.00
Protected 1 Gbps FICON	1,950.00
Protected 2 Gbps FICON	1,950.00
Protected Fiber Channel	1,950.00
Protected 2 Gbps Fiber Channel	1,950.00
Protected FDDI	1,950.00
Protected 1.06 Gbps ISC	1,950.00
Protected 2 Gbps ISC3	1,950.00
Protected Fast Ethernet	1,950.00
Protected Gigabit Ethernet	1,950.00
Protected 10 Gigabit Ethernet	4,750.00
LAN-PHY/WAN-PHY	1,950.00
Protected D1 Video	2,700.00
Protected Multi-Port Facility	225.00
Protected Multi-Port Channel	225.00
ESCON	225.00
Fiber Channel	225.00
FDDI	225.00
Fast Ethernet	225.00
D1 Video	225.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE**20. Ethernet Private Line** (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)#** (Cont'd)**(K) Rates and Charges** (Cont'd)(5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)(a) Monthly Rates (Cont'd)
(Jurisdiction: Illinois)Category IIMonthly RateInterface Type3-Year Term

Unprotected SONET OC3/OC3c	*	\$1,270.00
Unprotected SONET OC12/OC12c	*	1,400.00
Unprotected SONET OC48/OC48c	*	2,130.00
Unprotected SONET OC192/OC192c	*	7,330.00
Unprotected 1 Gbps FICON		2,400.00
Unprotected 2 Gbps FICON		2,400.00
Unprotected Fiber Channel		2,400.00
Unprotected 2Gbps Fiber Channel		2,400.00
Unprotected ETR/CLO		2,400.00
Unprotected FDDI		2,400.00
Unprotected 1.06 Gbps ISC		2,400.00
Unprotected 2Gbps ISC3		2,400.00
Unprotected Fast Ethernet		2,400.00
Unprotected Gigabit Ethernet		2,400.00
Unprotected 10 Gigabit Ethernet		
LAN-PHY/WAN-PHY		7,330.00
Unprotected D1 Video		2,400.00
Unprotected Multi-Port Facility		3,330.00
Unprotected Multi-Port Channel		
ESCON		225.00
Fiber Channel		225.00
FDDI		225.00
Fast Ethernet		225.00
D1 Video		225.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.1 **Dedicated SONET Optical Transport Service (DSOTS)#** (Cont'd)

(K) **Rates and Charges** (Cont'd)

(5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)

(a) Monthly Rates (Cont'd)
(Jurisdiction: Illinois)

<u>Interface Type</u>	<u>Category II</u>	<u>Monthly Rate</u>	<u>3-Year Term</u>
Protected SONET OC3/OC3c	*		\$ 1,600.00
Protected SONET OC12/OC12c	*		2,470.00
Protected SONET OC48/OC48c	*		3,330.00
Protected SONET OC192/OC192c			14,530.00
Protected 1 Gbps FICON			2,930.00
Protected 2 Gbps FICON			4,070.00
Protected Fiber Channel			2,930.00
Protected 2 Gbps Fiber Channel			4,070.00
Protected FDDI			2,930.00
Protected 1.06 Gbps ISC			4,070.00
Protected 2 Gbps ISC3			4,070.00
Protected Fast Ethernet			2,930.00
Protected Gigabit Ethernet			2,930.00
Protected 10 Gigabit Ethernet			14,530.00
LAN-PHY/WAN-PHY			2,930.00
Protected D1 Video			4,000.00
Protected Multi-Port Facility			
Protected Multi-Port Channel			
ESCON			225.00
Fiber Channel			225.00
FDDI			225.00
Fast Ethernet			225.00
D1 Video			225.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)#(Cont'd)
- (K) Rates and Charges (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (a) Monthly Rates (Cont'd)
(Jurisdiction: Illinois)

		<u>Category II</u>
		<u>Monthly Rate</u>
<u>Interface Type</u>		<u>5-Year Term</u>
Unprotected SONET OC3/OC3c	*	\$ 950.00
Unprotected SONET OC12/OC12c	*	1,050.00
Unprotected SONET OC48/OC48c	*	1,600.00
Unprotected SONET OC192/OC192c	*	5,500.00
Unprotected 1 Gbps FICON		1,800.00
Unprotected 2 Gbps FICON		1,800.00
Unprotected Fiber Channel		1,800.00
Unprotected 2 Gbps Fiber Channel		1,800.00
Unprotected ETR/CLO		1,800.00
Unprotected FDDI		1,800.00
Unprotected 1.06 Gbps ISC		1,800.00
Unprotected 2 Gbps ISC3		1,800.00
Unprotected Fast Ethernet		1,800.00
Unprotected Gigabit Ethernet		1,800.00
Unprotected 10 Gigabit Ethernet		1,800.00
LAN-PHY/WAN-PHY		5,500.00
Unprotected D1 Video		1,800.00
Unprotected Multi-Port Facility		2,500.00
Unprotected Multi Port Channel		
ESCON		225.00
Fiber Channel		225.00
FDDI		225.00
Fast Ethernet		225.00
D1 Video		225.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE**20. Ethernet Private Line (Cont'd)****20.1 Dedicated SONET Optical Transport Service (DSOTS)#(Cont'd)****(K) Rates and Charges (Cont'd)****(5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)****(a) Monthly Rates (Cont'd)
(Jurisdiction: Illinois)**

<u>Interface Type</u>	<u>Category II</u>
	<u>Monthly Rate</u>
	<u>5-Year Term</u>
Protected SONET OC3/OC3c	* \$ 1,200.00
Protected SONET OC12/OC12c	* 1,850.00
Protected SONET OC48/OC48c	* 2,500.00
Protected SONET OC192/OC192	10,900.00
Protected 1 Gbps FICON	2,200.00
Protected 2 Gbps FICON	3,050.00
Protected Fiber Channel	2,200.00
Protected 2Gbps Fiber Channel	3,050.00
Protected FDDI	2,200.00
Protected 1.06 Gbps ISC	3,050.00
Protected 2 Gbps ISC3	3,050.00
Protected Fast Ethernet	2,200.00
Protected Gigabit Ethernet	2,200.00
Protected 10 Gigabit Ethernet	10,900.00
LAN-PHY/WAN-PHY	2,200.00
Protected D1 Video	3,000.00
Protected Multi-Port Facility	225.00
Protected Multi-Port Channel	225.00
ESCON	225.00
Fiber Channel	225.00
FDDI	225.00
Fast Ethernet	225.00
D1 Video	225.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE20. Ethernet Private Line (Cont'd)20.1 Dedicated SONET Optical Transport Service (DSOTS)#(Cont'd)(K) Rates and Charges (Cont'd)(5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)(a) Monthly Rates (Cont'd)
(Jurisdiction: Illinois)

	<u>Category II</u>
	<u>Monthly Rate</u>
<u>Interface Type</u>	<u>7-Year Term</u>
Unprotected SONET OC3/OC3c	* \$ 850.00
Unprotected SONET OC12/OC12c	* 950.00
Unprotected SONET OC48/OC48c	* 1,400.00
Unprotected SONET OC192/OC192c	* 5,300.00
Unprotected 1 Gbps FICON	1,600.00
Unprotected 2 Gbps FICON	1,600.00
Unprotected Fiber Channel	1,600.00
Unprotected 2 Gbps Fiber Channel	1,600.00
Unprotected ETR/CLO	1,600.00
Unprotected FDDI	1,600.00
Unprotected 1.06 Gbps ISC	1,600.00
Unprotected 2 Gbps ISC3	1,600.00
Unprotected Fast Ethernet	1,600.00
Unprotected Gigabit Ethernet	1,600.00
Unprotected 10 Gigabit Ethernet	
LAN-PHY/WAN-PHY	5,300.00
Unprotected D1 Video	1,600.00
Unprotected Multi-Port Facility	2,200.00
Unprotected Multi-Port Channel	
ESCON	225.00
Fiber Channel	225.00
FDDI	225.00
Fast Ethernet	225.00
D1 Video	225.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)
- (K) Rates and Charges (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (a) Monthly Rates (Cont'd)
(Jurisdiction: Illinois)

		<u>Category II</u>
		<u>Monthly Rate</u>
<u>Interface Type</u>		<u>7-Year Term</u>
Protected SONET OC3/OC3c	*	\$ 1,100.00
Protected SONET OC12/OC12c	*	1,750.00
Protected SONET OC48/OC48c	*	2,300.00
Protected SONET OC192/OC192c		10,700.00
Protected 1 Gbps FICON		1,950.00
Protected 2 Gbps FICON		3,000.00
Protected Fiber Channel		1,950.00
Protected 2 Gbps Fiber Channel		3,000.00
Protected FDDI		1,950.00
Protected 1.06 Gbps ISC		3,000.00
Protected 2 Gbps ISC3		3,000.00
Protected Fast Ethernet		1,950.00
Protected Gigabit Ethernet		1,950.00
Protected 10 Gigabit Ethernet		
LAN-PHY/WAN-PHY		10,700.00
Protected D1 Video		1,950.00
Protected Multi-Port Facility		2,700.00
Protected Multi-Port Channel		
ESCON		225.00
Fiber Channel		225.00
FDDI		225.00
Fast Ethernet		225.00
D1 Video		225.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)
- (K) Rates and Charges (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (b) Nonrecurring Charges
(Jurisdiction: Illinois)
- (1) Initial Installation Charges,
Per optical transport channel

<u>Interface Type</u>		<u>Category I</u>
		<u>Nonrecurring Charge</u>
Unprotected SONET OC3/OC3c	*	\$1.00
Unprotected SONET OC12/OC12c	*	1.00
Unprotected SONET OC48/OC48c	*	1.00
Unprotected SONET OC192/OC192c	*	1.00
Unprotected 1 Gbps FICON		1.00
Unprotected 2 Gbps FICON		1.00
Unprotected Fiber Channel		1.00
Unprotected 2 Gbps Fiber Channel		1.00
Unprotected ETR/CLO		1.00
Unprotected FDDI		1.00
Unprotected 1.06 Gbps ISC		1.00
Unprotected 2 Gbps ISC3		1.00
Unprotected Fast Ethernet		1.00
Unprotected Gigabit Ethernet		1.00
Unprotected 10 Gigabit Ethernet		1.00
LAN-PHY/WAN-PHY		1.00
Unprotected D1 Video		1.00
Unprotected Multi-Port Facility		1.00
Unprotected Multi-Port Channel		1.00
ESCON		1.00
Fiber Channel		1.00
FDDI		1.00
Fast Ethernet		1.00
D1 Video		1.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)#(Cont'd)
- (K) Rates and Charges (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (b) Nonrecurring Charges (Cont'd)
(Jurisdiction: Illinois)
- (1) Initial Installation Charges,
Per optical transport channel (Cont'd)

<u>Interface Type</u>	<u>Category I</u>	<u>Nonrecurring Charge</u>
Protected SONET OC3/OC3c	*	\$1.00
Protected SONET OC12/OC12c	*	1.00
Protected SONET OC48/OC48c	*	1.00
Protected SONET OC192/OC192c		1.00
Protected 1 Gbps FICON		1.00
Protected 2 Gbps FICON		1.00
Protected Fiber Channel		1.00
Protected 2 Gbps Fiber Channel		1.00
Protected FDDI		1.00
Protected 1.06 Gbps ISC		1.00
Protected 2 Gbps ISC3		1.00
Protected Fast Ethernet		1.00
Protected Gigabit Ethernet		1.00
Protected 10 Gigabit Ethernet		
LAN-PHY/WAN-PHY		1.00
Protected D1 Video		1.00
Protected Multi-Port Facility		1.00
Protected Multi-Port Channel		
ESCON		1.00
Fiber Channel		1.00
FDDI		1.00
Fast Ethernet		1.00
D1 Video		1.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)#(Cont'd)
- (K) Rates and Charges (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (b) Nonrecurring Charges (Cont'd)
(Jurisdiction: Illinois)
- (1) Initial Installation Charges,
Per optical transport channel (Cont'd)

		<u>Category II</u>
		<u>Nonrecurring Charge</u>
<u>Interface Type</u>		
Unprotected SONET OC3/OC3c	*	\$1.00
Unprotected SONET OC12/OC12c	*	1.00
Unprotected SONET OC48/OC48c	*	1.00
Unprotected SONET OC192/OC192c	*	1.00
Unprotected 1 Gbps FICON		1.00
Unprotected 2 Gbps FICON		1.00
Unprotected Fiber Channel		1.00
Unprotected 2 Gbps Fiber Channel		1.00
Unprotected ETR/CLO		1.00
Unprotected FDDI		1.00
Unprotected 1.06 Gbps ISC		1.00
Unprotected 2 Gbps ISC3		1.00
Unprotected Fast Ethernet		1.00
Unprotected Gigabit Ethernet		1.00
Unprotected 10 Gigabit Ethernet		
LAN-PHY/WAN-PHY		1.00
Unprotected D1 Video		1.00
Unprotected Multi-Port Facility		1.00
Unprotected Multi-Port Channel		
ESCON		1.00
Fiber Channel		1.00
FDDI		1.00
Fast Ethernet		1.00
D1 Video		1.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)
- 20.1 **Dedicated SONET Optical Transport Service (DSOTS)#** (Cont'd)
- (K) **Rates and Charges** (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (b) Nonrecurring Charges (Cont'd)
(Jurisdiction: Illinois)
- (1) Initial Installation Charges,
Per optical transport channel (Cont'd)

<u>Interface Type</u>	<u>Category II</u>	<u>Nonrecurring Charge</u>
Protected SONET OC3/OC3c	*	\$1.00
Protected SONET OC12/OC12c	*	1.00
Protected SONET OC48/OC48c	*	1.00
Protected SONET OC192/OC192c		1.00
Protected 1 Gbps FICON		1.00
Protected 2 Gbps FICON		1.00
Protected Fiber Channel		1.00
Protected 2 Gbps Fiber Channel		1.00
Protected FDDI		1.00
Protected 1.06 Gbps ISC		1.00
Protected 2 Gbps ISC3		1.00
Protected Fast Ethernet		1.00
Protected Gigabit Ethernet		1.00
Protected 10 Gigabit Ethernet		
LAN-PHY/WAN-PHY		1.00
Protected D1 Video		1.00
Protected Multi-Port Facility		1.00
Protected Multi-Port Channel		
ESCON		1.00
Fiber Channel		1.00
FDDI		1.00
Fast Ethernet		1.00
D1 Video		1.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)
- (K) Rates and Charges (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (b) Nonrecurring Charges (Cont'd)
(Jurisdiction: Illinois)
- (2) Subsequent Installation Charges,
Per optical transport channel

<u>Interface Type</u>	<u>Category I</u>	<u>Nonrecurring Charge</u>
Unprotected SONET OC3/OC3c	*	\$1.00
Unprotected SONET OC12/OC12c	*	1.00
Unprotected SONET OC48/OC48c	*	1.00
Unprotected SONET OC192/OC192c	*	1.00
Unprotected 1 Gbps FICON		1.00
Unprotected 2 Gbps FICON		1.00
Unprotected Fiber Channel		1.00
Unprotected 2 Gbps Fiber Channel		1.00
Unprotected ETR/CLO		1.00
Unprotected FDDI		1.00
Unprotected 1.06 Gbps ISC		1.00
Unprotected 2 Gbps ISC3		1.00
Unprotected Fast Ethernet		1.00
Unprotected Gigabit Ethernet		1.00
Unprotected 10 Gigabit Ethernet		1.00
LAN-PHY/WAN-PHY		1.00
Unprotected D1 Video		1.00
Unprotected Multi-Port Facility		1.00
Unprotected Multi-Port Channel		1.00
ESCON		1.00
Fiber Channel		1.00
FDDI		1.00
Fast Ethernet		1.00
D1 Video		1.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)#(Cont'd)
- (K) Rates and Charges (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (b) Nonrecurring Charges (Cont'd)
(Jurisdiction: Illinois)
- (2) Subsequent Installation Charges,
Per optical transport channel (Cont'd)

<u>Interface Type</u>	<u>Category I</u>	<u>Nonrecurring Charge</u>
Protected SONET OC3/OC3c	*	\$1.00
Protected SONET OC12/OC12c	*	1.00
Protected SONET OC48/OC48c	*	1.00
Protected SONET OC192/OC192c		1.00
Protected 1 Gbps FICON		1.00
Protected 2 Gbps FICON		1.00
Protected Fiber Channel		1.00
Protected 2 Gbps Fiber Channel		1.00
Protected FDDI		1.00
Protected 1.06 Gbps ISC		1.00
Protected 2 Gbps ISC3		1.00
Protected Fast Ethernet		1.00
Protected Gigabit Ethernet		1.00
Protected 10 Gigabit Ethernet		
LAN-PHY/WAN-PHY		1.00
Protected D1 Video		1.00
Protected Multi-Port Facility		1.00
Protected Multi-Port Channel		
ESCON		1.00
Fiber Channel		1.00
FDDI		1.00
Fast Ethernet		1.00
D1 Video		1.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)
- (K) Rates and Charges (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (b) Nonrecurring Charges (Cont'd)
(Jurisdiction: Illinois)
- (2) Subsequent Installation Charges,
Per optical transport channel (Cont'd)

<u>Interface Type</u>	<u>Category II</u>	<u>Nonrecurring Charge</u>
Unprotected SONET OC3/OC3c	*	\$1.00
Unprotected SONET OC12/OC12c	*	1.00
Unprotected SONET OC48/OC48c	*	1.00
Unprotected SONET OC192/OC192c	*	1.00
Unprotected 1 Gbps FICON		1.00
Unprotected 2 Gbps FICON		1.00
Unprotected Fiber Channel		1.00
Unprotected 2 Gbps Fiber Channel		1.00
Unprotected ETR/CLO		1.00
Unprotected FDDI		1.00
Unprotected 1.06 Gbps ISC		1.00
Unprotected 2 Gbps ISC3		1.00
Unprotected Fast Ethernet		1.00
Unprotected Gigabit Ethernet		1.00
Unprotected 10 Gigabit Ethernet		1.00
LAN-PHY/WAN-PHY		1.00
Unprotected D1 Video		1.00
Unprotected Multi-Port Facility		1.00
Unprotected Multi-Port Channel		1.00
ESCON		1.00
Fiber Channel		1.00
FDDI		1.00
Fast Ethernet		1.00
D1 Video		1.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)
- (K) Rates and Charges (Cont'd)
- (5) Optical Transport Channels
Single/Multi-Port Interface (Cont'd)
- (b) Nonrecurring Charges (Cont'd)
(Jurisdiction: Illinois)
- (2) Subsequent Installation Charges,
Per optical transport channel (Cont'd)

<u>Interface Type</u>	<u>Category II</u>	<u>Nonrecurring Charge</u>
Protected SONET OC3/OC3c	*	\$1.00
Protected SONET OC12/OC12c	*	1.00
Protected SONET OC48/OC48c	*	1.00
Protected SONET OC192/OC192c		1.00
Protected 1 Gbps FICON		1.00
Protected 2 Gbps FICON		1.00
Protected Fiber Channel		1.00
Protected 2 Gbps Fiber Channel		1.00
Protected FDDI		1.00
Protected 1.06 Gbps ISC		1.00
Protected 2 Gbps ISC3		1.00
Protected Fast Ethernet		1.00
Protected Gigabit Ethernet		1.00
Protected 10 Gigabit Ethernet		
LAN-PHY/WAN-PHY		1.00
Protected D1 Video		1.00
Protected Multi-Port Facility		1.00
Protected Multi-Port Channel		
ESCON		1.00
Fiber Channel		1.00
FDDI		1.00
Fast Ethernet		1.00
D1 Video		1.00

* Concatenation not available on Switched interfaces.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)****(L) Network Management Methods**

The customer has the option of purchasing one of the following Network Management Methods for use with a Special Access DSOTS network provided by the Telephone Company in accordance with this Section 20.1. Only one of these features may be provided on a single DSOTS. In order to purchase one of the features, the customer must be subscribed to DSOTS and must use such DSOTS in conjunction with the selected feature.

- Customer Service Management (CSM) Optional Feature, as set forth in (L)(1) following.
- Direct TL1 Monitoring (DTM) Optional Feature, as set forth in (L)(2) following.

(1) Customer Service Management (CSM) Optional Feature**(a) Description**

CSM provides a customer with real time information about the operational status of its DSOTS network. CSM provides a network view of real-time detection and reporting of network alarm conditions within the customer's DSOTS network. In addition, CSM provides the customer the ability for the customer to generate basic network performance reports for its DSOTS network. The customer may also request network performance reports that are customized to meet their specific needs under Section 20.1(L)(3) and 20.1(L)(4) following for Rates and Charges.

(b)**Application of Rates and Charges****(1)**

A CSM monthly recurring charge applies, per full or partial ring, for each DSOTS provided with the CSM optional feature.

(2)

A Node Setup charge applies, per primary or expansion node, for each node that is equipped with CSM at the time that CSM is initially established on the DSOTS.

(3)

An Initial CSM Setup charge applies for establishment of the customer's initial CSM database partition. The initial CSM database partition includes setup for up to six (6) users.

(4)

A Setup of Additional Users charge applies for the setup of up to six (6) additional users beyond those provided with the initial or additional database partitions.

(5)

A Setup of Additional Partition charge applies for the setup of an additional CSM database partition created for the same customer. Each additional CSM database partition provides for the setup of up to six (6) additional users.

(6)

An Add/Remove Node charge applies, per primary and expansion node, for each node that is added to, or removed from, an DSOTS ring equipped with CSM subsequent to the initial establishment of CSM. This charge also applies, per primary and expansion node, when the customer requests a change in Network Management Method (e.g., from CSM to DTM).

(7)

A Consultation and Support charge applies for each thirty (30) minutes or fraction thereof that the customer requests Telephone Company consultation and support of its CSM network. This charge does not apply during initial setup of CSM.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

- 20. Ethernet Private Line (Cont'd)**
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)**
- (L) Network Management Methods (Cont'd)
- (1) Customer Service Management (CSM) Optional Feature (Cont'd)
- (c) Rate Regulations
- (1) CSM is provided under a term plan of 3 years, 5 years or 7 years, as described following:
- The duration of the term plan for CSM must be the same duration as the term plan for the DSOTS nodes provided with CSM. At the expiration of its 3, 5 or 7 year term plans for CSM, the customer has the option of extending CSM with a coterminous end date as described following;
 - The expiration date of each CSM added subsequent to the initial installation must be coterminous to the expiration date of the associated DSOTS, provided the addition is prior to the 21st month for a 3-year plan, prior to the 36th month for a 5-year plan, or prior to the 50th month for a 7-year plan. A CSM added after the aforementioned periods requires extension of the commitment period for the associated DSOTS in accordance with 20.1(l) preceding. Such extension results in the establishment of a new plan that includes both the DSOTS and the CSM under the same plan with the same expiration date.
- (2) The customer may retrieve basic reports containing performance-monitoring information on its DSOTS network. Basic reports are available at no additional charge to the customer. The customer may also request that a report be customized to meet its particular needs. Rates and charges for customized reports are provided on an individual case basis (ICB) only.
- (3) CSM is subject to termination liability if the service is disconnected prior to completion of the existing commitment period. The terms and conditions in (d) following apply to termination of CSM prior to completion of the existing commitment period. Changes in Network Management Method (e.g., from CSM to DTM) will be made without termination liability subject to the Add/Remove Node charge set forth in (L)(1)(b)(6) preceding.
- (d) Terms and Conditions
- (1) The customer must utilize Internet web access to connect its customer-provided terminal equipment to the Telephone Company's CSM management system. Access to the internet and any associated rates and charges are the responsibility of the customer. The customer is also responsible for obtaining communications software that is compatible with the software the Telephone Company utilizes to provide CSM. The Telephone Company will work cooperatively with the customer to determine compatibility of its communications software.
- Subject to the restrictions set forth in (L)(1)(c)(1) preceding, CSM is provided coincident with the installation of the associated DSOTS ring or may be added to an existing ring.

Service availability limited. Refer to # footnote on Page 20-80.

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20. Ethernet Private Line (Cont'd)**20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)****(L) Network Management Methods (Cont'd)****(2) Direct TL1 Monitoring (DTM) Optional Feature****(a) Description**

DTM provides a customer with near real time information about the operational status of its DSOTS network over a TL1 connection. A TL1 connection is a machine-to-machine communication language protocol. The connection allows a customer to monitor its DSOTS network via a limited set of executable TL1 commands in order to query alarm and performance criteria.

(1) DTM enables the following:

- Near real time access to system-generated alarm and performance messages originating from the customer's DSOTS network elements.
- Query and response capability that enables two-way communications with the capability to poll and retrieve messages, such as command alarms and performance messages.
- Access to ring inventory information that will enable the customer to maintain its own inventory database containing network element configurations and usage records for active service channels.
- Notification that a power failure has occurred at an DSOTS network element and that the affected network element has reverted to battery backup.
- Ability to monitor the ring, as well as all service channels riding the ring.

(b) Application of Rates and Charges

- (1) A DTM monthly recurring rate applies for each DSOTS provided with the DTM optional feature.
- (2) A Node Setup charge applies, per primary or expansion node, for each node that is equipped with DTM at the time that DTM is initially established on the DSOTS.
- (3) An Initial DTM Setup charge applies for establishment of the customer's initial DTM database partition.
- (4) An Add/Remove Node charge applies, per primary and expansion node, for each node that is added to, or removed from, an DSOTS ring equipped with DTM subsequent to the initial establishment of DTM. This charge also applies, per primary and expansion node, when the customer requests a change in Network Management Method (e.g., from DTM to CSM).
- (5) A Consultation and Support charge applies for each thirty (30) minutes or fraction thereof that the customer requests Telephone Company consultation and support of its DTM network. This charge does not apply during initial setup of DTM.

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

- 20. Ethernet Private Line (Cont'd)**
- 20.1 Dedicated SONET Optical Transport Service (DSOTS)# (Cont'd)**
- (L) Network Management Methods (Cont'd)
- (2) Direct TL1 Monitoring (DTM) Optional Feature (Cont'd)
- (c) Rate Regulations
- (1) DTM is provided under a term plan of 3 years, 5 years or 7 years, as described following.
- The duration of the term plan for DTM must be the same duration as the term plan for the DSOTS nodes provided with DTM. At the expiration of its 3, 5 or 7 year term plans for DTM, the customer has the option of extending DTM with a coterminous end date as described following.
 - The expiration date of each DTM added subsequent to the initial installation must be coterminous to the expiration date of the associated DSOTS, provided the addition is prior to the 21st month for a 3-year plan, prior to the 36th month for a 5-year plan, or prior to the 50th month for a 7-year plan. A DTM added after the aforementioned periods requires extension of the commitment period for the associated DSOTS in accordance with 20.1(l) preceding. Such extension results in the establishment of a new plan that includes both the DSOTS and the DTM under the same plan with the same expiration date.
- (2) Termination liability will apply if DTM is removed prior to completion of the existing commitment period. The terms and conditions in 20.1(E) preceding apply to termination of DTM prior to completion of the existing commitment period. Changes in Network Management Method (e.g., from DTM to CSM) will be made without termination liability subject to the Add/Remove Node charge set forth in (L)(2)(b)(4) preceding.
- (d) Terms and Conditions
- (1) The customer must order two (2) Special Access Services as provided by the Telephone Company under Section 7 or provided by another carrier, in order to ensure secure, dedicated private line access and enable full redundancy for DTM. These Special Access lines must originate at the customer's designated premises and terminate at a DTM site designated by the Telephone Company with the terms and conditions of this tariff. The customer is responsible for procuring any additional services that may be necessary to connect the Special Access Service to the customer's designated premises.
- (2) When requested by the customer, and where technically feasible to do so, the Telephone Company will provide encryption capabilities on the Special Access Services used to access DTM. The Telephone Company will specify any equipment or software required to provide encryption. Obtaining such equipment or software is the responsibility of the customer. The customer is also responsible for:
- security of any equipment, servers, systems or other facilities provided by the customer and which have access to the DTM network; and
 - monitoring access to the DTM service using the facilities, systems, equipment or servers provided by the customers

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20.	<u>Ethernet Private Line</u> (Cont'd)		
20.1	<u>Dedicated SONET Optical Transport Service (DSOTS)#</u> (Cont'd)		
(L)	<u>Network Management Methods</u> (Cont'd)		
(3)	Rates and Charges, Customer Service Management Optional Feature (CSM) (Jurisdiction: Illinois)		
(a)	CSM, per primary ring		<u>Monthly Rate</u>
	3 year		\$450.00
	5 year		450.00
	7 year		450.00
(b)	Customized Reports	(NOTE)	ICB
			<u>Nonrecurring Charge</u>
(c)	Node Setup, per primary or expansion node on the ring equipped during initial Cthod establishment		\$200.00
(d)	Initial CSM Setup, first partition with up to 6 users		500.00
(e)	Setup of Additional Partition		500.00
(f)	Setup of Additional Users, up to 6 additional users		\$350.00
(g)	Add/Remove Node, per primary or expansion node added to, or removed from, the CSM ring subsequent to initial establishment or for a Change in Network Management Method		200.00
(h)	Consultation and Support, each 30 minutes or fraction thereof		100.00
(i)	Change Network Management Method, from CSM to DTM, per node		200.00

NOTE to be assigned with the associated ICB.

Service availability limited. Refer to # footnote on Page 20-80.

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20.	<u>Ethernet Private Line</u> (Cont'd)	
20.1	<u>Dedicated SONET Optical Transport Service (DSOTS)#</u> (Cont'd)	
(L)	<u>Network Management Methods</u> (Cont'd)	
(4)	Rates and Charges, Direct TL1 Monitoring Optional Feature (DTM) (Jurisdiction: Illinois)	
(a)	DTM, per primary ring	<u>Monthly Rate</u>
	3 year	\$450.00
	5 year	450.00
	7 year	450.00
		<u>Nonrecurring Charge</u>
(b)	Node Setup, per primary or expansion node on the ring equipped during initial establishment	\$200.00
(c)	Initial DTM Setup, first partition with up to 6 users	500.00
(d)	Add/Remove Node, per primary or expansion node added to, or removed from, the DTM ring subsequent to initial establishment or for a Change in Network Management Method	200.00
(e)	Consultation and Support, each 30 minutes or fraction thereof	100.00
(f)	Change Network Management Method, from DTM to CSM, per node	200.00

Service availability limited. Refer to # footnote on Page 20-80.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #****(A) General**

- (1) Dedicated SONET Ring (DSR) provides a customer a dedicated high capacity customized network. The network is in a ring architecture or topology that assures survivability. Full rings may subtend (interconnect with) each other as described in (B)(4) following.
- (2) DSR is an alternative to basic High Capacity Special Access point-to-point services between multiple customer locations. It is, therefore, rated discretely. Rate elements include enhanced nodes, ports and mileage between enhanced nodes. Rates are specified in 20.2(K) following.
- (3) Definitions

Add/Drop Multiplexing, (ADM): a multiplexing function that allows lower level signals to be added or dropped from an optical carrier channel.

Enhanced node: a DSR rate element and a designation of either a customer location or Company wire center on a SONET ring that has Next Generation Add Drop Multiplexer (NGADM) capability. It is also the address of where a channelized (lower speed) service originates or terminates on a ring. Generally, the ring capacity determines the type of node.

Fiber path diversity: the provision of service using at least two fibers placed on physically separate paths, i.e., different conduit runs that do not pass through the same manhole(s). The cable paths are separated by at least 25 feet.

- # The following footnote is not applicable to the DS1, DS3, DS3 Transmux or STS1 Port, DS1, DS3 or STS1 Partial Ring Channel Mapping rate elements of DSR. Effective May 31, 2007, orders for new DSR are no longer permitted. The Telephone Company will continue to provide DSR pursuant to this Section 20.2 on any existing DSR that is in-service as of May 31, 2007, or any order for DSR that is placed with the Telephone Company prior to May 31, 2007 (collectively, Existing DSR), subject to the following conditions:
- a. For any Existing DSR that is currently subscribed to a term plan (i.e., commitment periods of 3-, 5-, and 7-years), the Telephone Company will continue to provide the Existing DSR for an additional six (6) months beyond the expiration date of the customer's current commitment period, or until the customer replaces the Existing DSR with a comparable Telephone Company provided service, or discontinues service, whichever comes first. Subject to the availability of facilities and equipment, additions and/or changes to the Existing DSR are permitted during the current commitment period provided that such additions do not require a new commitment period or an extension to an existing commitment period.
 - b. For any Existing DSR whose term plan expired prior to May 31, 2007, but the Existing DSR continued on a month-to-month basis at prevailing rates, the Telephone Company will continue to provide the Existing DSR until November 30, 2007, or until the customer replaces the Existing DSR with a comparable Telephone Company provided service, or discontinues service, whichever comes first. Additions and/or changes are not permitted.

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20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #****(A) General (Cont'd)****(3) Definitions (Cont'd)**

Optical Carrier Rate, (OCn#): a SONET transmission signal/speed, line rate, or service. The rates are in multiples of an OC1, which is equivalent to an STS1 (51.84 Mbps), SONET's basic rate.

<u>OC(#)</u> <u>Rate</u>	<u>Bandwidth</u> <u>Capacity</u>
3	155.52 Mbps
12	622.08 Mbps
48	2.488 Gbps
192	9.952 Gbps

Optical Carrier Rate Concatenated, (OCn#c): a "clear channel" SONET transmission using only one framing format. Generally, an OC3 signal provides three STS1s frame formats with 3 overheads for a total capacity of 2268 bytes per Synchronous Payload envelope (SPE) frame; in an OC3c signal, one STS3c frame format is used with one overhead, increasing the total payload capacity to 2340 bytes per SPE frame.

OC48+3, OC192+3, OC192+12, and OC192+48: designations for enhanced nodes in ring-on-ring designs; the higher speed NGADM is part of the true ring, and the lower speed NGADM is connected for the purpose of mapping lower speed services onto the STS1s of the OC12, OC48 or OC192. Both nodes, the lower and higher speed node, of a ring-on-ring arrangement must be located in the same customer premises or wire center.

Port: a DSR rate element that denotes the interface at which a channelized or lower speed service terminates or originates at a DSR node.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE**20. Ethernet Private Line (Cont'd)****20.2 Dedicated SONET Ring (DSR) # (Cont'd)****(A) General (Cont'd)****(3) Definitions (Cont'd)**

Port Node: an arrangement on a DSR that interconnects the main DSR ring with a subtending DSR ring.

SONET, (Synchronous Optical NETWORK): an international standard for the transmission of high capacity bandwidth over optical facilities. This synchronous transmission platform utilizes a modular multiplexing approach. Because of the large bandwidth, some of the payload is used to monitor, protect, manage and improve the transmission of the signal.

Subtending Ring: a DSR Service that subtends (interconnects with) a DSR main ring.

Synchronous Transport Signal Level, (STS1): a 51.84 Mbps signal that is the electrical equivalent of the OC1 or a DS3 with additional Mbps devoted to SONET overhead information. An STS1 can carry a DS3 or 28 DS1s when specifically formatted (Mapped). These DS1s may be accessed off-ring using the tariffed DS3 to DS1 multiplexing optional service or at an enhanced node via a DSR DS3 Transmux Port.

Virtual Tributary, (VT): A SONET structure designed for transport of sub-STs1 payloads. A DS1 is mapped into the SONET format using a VT1.5 as a packaging mechanism that is internal to the SONET signal.

GigE: an ethernet circuit offered at the port level over DSR rings. Ethernet frames are mapped into STS1, STS-N or STS-Nc SONET frames.

<u>GigE Channel</u>	<u>Transport Bandwidth</u>	<u>Approximate Throughput</u>	<u>Effective SONET Payload Capacity</u>
GigE-1	(1) STS1	50 Mbps	49.536 Mbps
GigE-3	(1) STS-3	150 Mbps	149.760 Mbps
GigE-6	(1) STS-6	300 Mbps	299.520 Mbps
GigE-9	(1) STS-9	450 Mbps	449.280 Mbps
GigE-12	(1) STS-12	600 Mbps	599.040 Mbps
GigE-24	(1) STS-24	1000 Mbps	1,198.080 Mbps

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(B) Service Description****(1) Full Ring**

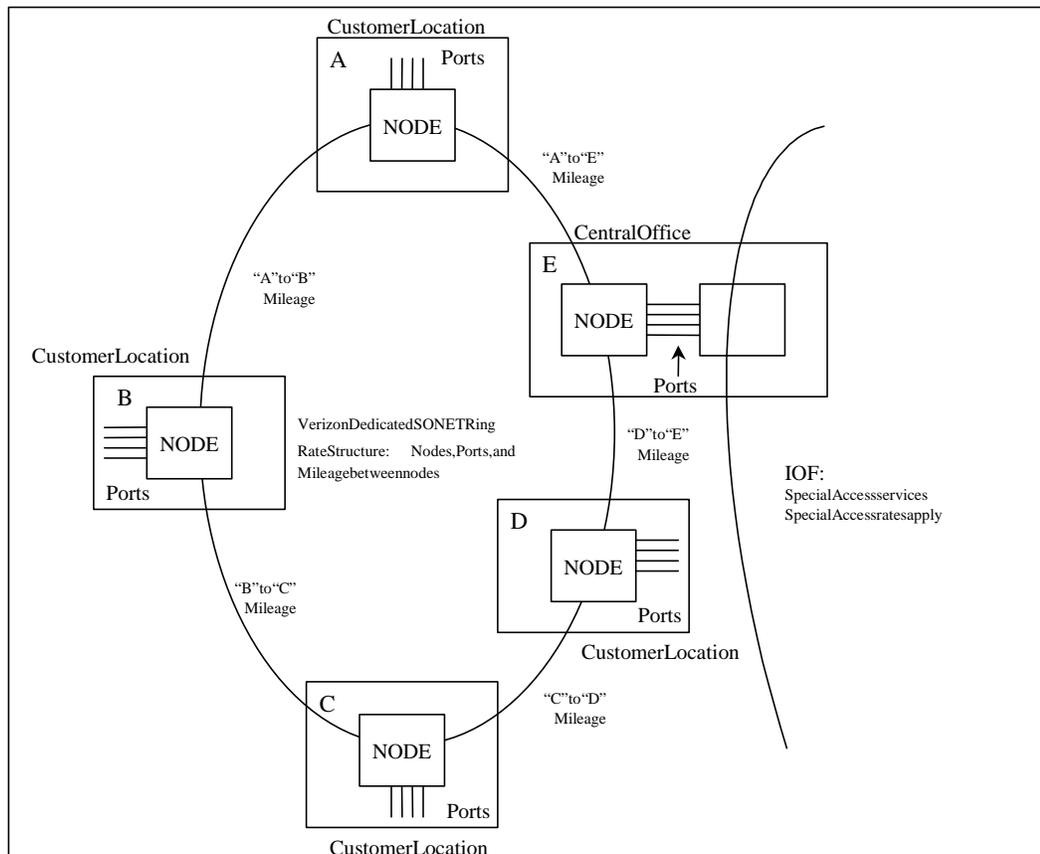
- (a) DSR may provide connectivity to multiple customer designated locations (nodes). The minimum node requirement for a full ring DSR is as follows:

- (1) For DSR rings provided wholly by the Telephone Company, the ring must be configured with a minimum of three nodes that are provided by the Telephone Company and are at different locations. One or more full rings may interconnect with each other in a subtending ring configuration as described in (B)(4) following. At least one of these nodes must be located in a Telephone Company central office (CO) and one must be located at a customer's designated location; or
- (2) For DSR rings provided jointly by the Telephone Company and one or more other exchange telephone companies, the ring must be configured with a minimum of three nodes. A minimum of one node must be provided by the Telephone Company with that node being located in a Telephone Company CO and the remaining nodes may be provided by one or more of the other exchange telephone companies jointly providing the service. If more than one node is provided by the Telephone Company, the additional nodes may be located at either a customer designated location or in a Telephone Company CO. Jointly provided DSR rings must meet all of the same requirements that are set forth in this tariff for wholly provided DSR rings. This configuration is only allowed when the DSR ring is jointly provided by the Telephone Company and one or more other exchange telephone companies in a multiple company billing arrangement as set forth in Section 2.4.7.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

- 20. **Ethernet Private Line** (Cont'd)
- 20.2 **Dedicated SONET Ring (DSR) #** (Cont'd)
- (B) **Service Description** (Cont'd)
 - (1) Full Ring (Cont'd)
 - (b) An example of a full Dedicated SONET Ring (DSR) is diagrammed below:



Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) # (Cont'd)****(B) Service Description (Cont'd)**

Partial Ring

(2)

(a)

A partial DSR ring provides connectivity to multiple customer designated locations (nodes) between fiber meet locations at which high speed interconnection of the Telephone Company's backbone network facilities to the customer's facilities or the facilities of a third party occurs. Partial ring service may only be interconnected to (1) another partial ring provided by the Telephone Company or (2) ring facilities provided by the customer or third party. Subtending rings as described in (B)(4) following may not interconnect with, or be associated with, a partial ring. The portion of the ring provided by the customer or third party must use vendor equipment that matches the equipment used by the Telephone Company and must maintain the same vintage in software release as the Telephone Company. Upon written notice by the Telephone Company, the customer or third party will have sixty (60) days in which to complete the change out of any software release deployed by the Telephone Company.

(b)

The partial ring must have a minimum of two devices provided by the Telephone Company (enhanced nodes or high speed interfaces) with a device at each fiber meet location and at least one node on the partial ring must be in a CO. When the partial ring is provided over a Dedicated SONET Optical Transport Service (DSOTS) or a Telephone Company provided DWDM ring service, the DSOTS/DWDM ring service device(s) are counted towards satisfying the minimum device requirement at each fiber meet location on the DSR partial ring. High speed interconnection may occur at a customer's designated premises, a Telephone Company central office or a location that is mutually agreeable to both the customer and the Telephone Company (such location will be designated as a premises for the purpose of administering the general regulations set forth in this tariff).

Fiber Meet

(c)

(1)

When the fiber meet occurs at a customer's designated premises, the point of interconnection between the Telephone Company's facilities and the facilities of the customer or of a third party shall be a node.

(2)

When the fiber meet occurs in a Telephone Company wire center, high speed interconnection from the device (DSR node, DSOTS/DWDM ring service node or DSOTS/DWDM ring service amplifier, as applicable) occurs at a collocation arrangement via fiber cross-connects between the Telephone Company's fiber optic facilities and the customer's or third party's facilities. Fiber Cross-connects are provided under Section 19.2 preceding.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.2 **Dedicated SONET Ring (DSR)** #(Cont'd)

(B) Service Description (Cont'd)

(2) Partial Ring (Cont'd)

(c) Fiber Meet (Cont'd)

(3) When the fiber meet occurs at a mutually agreed upon location, the point of interconnection shall be a high speed (pass-through) interface.

(4) The Telephone Company's network design will define the optical parameters at the fiber meet locations. The Telephone Company is responsible for the quality and integrity of the high speed optical signal at the fiber meet where its facilities are interconnected to the facilities of the customer or of the third party. The Telephone Company bears no responsibility for the optical parameters beyond the fiber meet (i.e., in the facilities of the customer or of the third party). In the case of DSR ring that is jointly provided by the Telephone Company and one or more other exchange telephone companies in a multiple billing arrangement, as set forth in Section 2.4.7 preceding, the overall design and configuration of the DSR ring must be mutually agreeable to the Telephone Company, any other exchange telephone company(s) involved, and to the customer. The customer or third party is responsible for engineering its portion of the jointly provided ring. At customer or third-party's option, the Telephone Company will engineer the customer or third party's portion of the ring within the LATA subject to charges for Additional Labor as set forth in Section 6 preceding.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)
- 20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)
- (C) **Service Components** (Cont'd)
- (2) Ports (Cont'd)
- (c) Asymmetrical Ports (Cont'd)
- (3) (Cont'd)
- (c) When the APF is located in a Telephone Company wire center and the APF connects to a customer designated premises that is served by a different wire center, an asymmetrical port channel extension and mileage applies to extend the APF to the customer designated premises. Rates and charges for the asymmetrical port channel extension and mileage apply in addition to the rates and charges for the port as set forth in (D) following.
- (d) When the APF is located in a Telephone Company wire center and the APF connects to an Expanded Interconnection arrangement that is located within the same wire center as the node, a port charge applies as set forth in (D) following.
- (e) When the APF is located in a Telephone Company wire center and the APF connects to an Expanded Interconnection arrangement that is not located within the same wire center as the node, mileage applies to extend the APF to the Collocated Interconnection arrangement. Rates and charges for the mileage apply in addition to the rates and charges for the port as set forth in (D) following.
- (f) For (C)(2)(c)(3)(c) through (e) preceding, channel termination or cross-connect charges apply in addition to the port, asymmetrical port channel extension, and mileage charges. Channel termination charges apply in accordance with Sections 6 and 7 preceding. Cross-connection to Expanded Interconnection Service arrangements apply in accordance with Section 17 preceding.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)20.2 Dedicated SONET Ring (DSR) #(Cont'd)(C) Service Components (Cont'd)

(2) Ports (Cont'd)

(c) Asymmetrical Ports (Cont'd)

(4) Asymmetrical ports are available in the following combinations:

<u>Ring Capacity</u>	APF <u>Rate</u>	Asymmetrical <u>Port Combinations**</u>
OC3 DSR Ring	N/A	DS3 Transmux - DS1*
	STS-1	STS1 - DS3 STS1 - DS1*
OC12 DSR Ring	N/A	STS1 - DS3 DS3 Transmux - DS1*
	OC3	OC3 - STS1 OC3 - DS3 OC3 - DS1* OC3 - GigE3* OC3 - GigE1*
OC48 DSR Ring	N/A	STS1 - DS3 DS3 Transmux - DS1*
	OC12	OC12 - OC3 OC12 - OC3c OC12 - STS1 OC12 - DS3 OC12 - DS1* OC12 - GigE12* OC12 - GigE9* OC12 - GigE6* OC12 - GigE3* OC12 - GigE1*
	OC3	OC3 - STS1 OC3 - DS3 OC3 - DS1* OC3 - GigE3* OC3 - GigE1*

* Requires enhanced node. For Ethernet (GigE) port options, the associated Ethernet Service must be SONET mapped.

** Concatenation is not available on Switched Access Ports

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(C) Service Components (Cont'd)****(2) Ports (Cont'd)****(c) Asymmetrical Ports (Cont'd)****(4) (Cont'd)**

<u>Ring Capacity</u>	APF <u>Rate</u>	Asymmetrical <u>Port Combinations**</u>
OC192 DSR Ring	N/A	STS1 - DS3 DS3 Transmux - DS1*
	OC48	OC48 – OC12 OC48 – OC12c OC48 – OC3 OC48 – OC3c OC48 – STS1 OC48 - DS3 OC48 – DS1* OC48 – GigE24* OC48 – GigE12* OC48 – GigE9* OC48 - GigE6* OC48 - GigE3* OC48 - GigE1*
	OC12	OC12 – OC3 OC12 – OC3c OC12 – STS1 OC12 - DS3 OC12 – DS1* OC12 – GigE12* OC12 – GigE9* OC12 - GigE6* OC12 - GigE3* OC12 - GigE1*
	OC3	OC3 – STS1 OC3 - DS3 OC3 – DS1* OC3 - GigE3* OC3 - GigE1*

* Requires enhanced node. For Ethernet (GigE) port options, the associated Ethernet Service must be SONET mapped.

** Concatenation is not available on Switched Access Ports

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)

(C) **Service Components** (Cont'd)

(2) Ports (Cont'd)

(d) Transmux Ports

- (1) The DS3 Transmux Port performs a DS3 to a DS1 conversion at a DSR node. The DS3 to DS1 conversion allows a single DSR DS3 Transmux port (which includes a DS3 Transmux Facility to which the DS1 circuits are mapped) to be a facility associated with up to twenty-eight (28) VT1.5 mapped DSR DS1 ports. Such DS3 Transmux facility will be provisioned upon ordering the associated DS3 Transmux port. Transmuxing is only available where suitable facilities and equipment exist to provide the DS3 Transmux Port. The DS3 Transmux port facility may connect to Switched or Special Access DS3 service as specified in Sections 6 and 7 preceding.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)

(B) Service Description (Cont'd)

(2) Partial Ring (Cont'd)

(c) Fiber Meet (Cont'd)

(5) The customer must provide the Telephone Company with its fiber optic facility requirements (i.e., whether it will use single mode fiber or multi-mode fiber) prior to the Telephone Company ordering the necessary SONET network equipment to provide the requested service. The customer may utilize its own fiber optic facilities or the facilities of a third party.

(6) Interconnection to DSR partial ring services may occur (i) at the customer's designated premises for which interconnection will occur via a node; (ii) in a Telephone Company wire center for which interconnection from a device will occur at a collocation arrangement via fiber cross-connects as described in Section 17 preceding; or (iii) at a mutually agreed upon location where interconnection occurs via a high speed (pass-through) interface. Interconnection to other Telephone Company services may not occur at the mutually agreed upon fiber meet location utilizing a high speed interface.

(7) Interconnection to DSR partial ring service is limited to high speed fiber interconnection of the Telephone Company's backbone network fiber optic facilities and the fiber optic facilities of the customer or of a third party.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)

(B) Service Description (Cont'd)

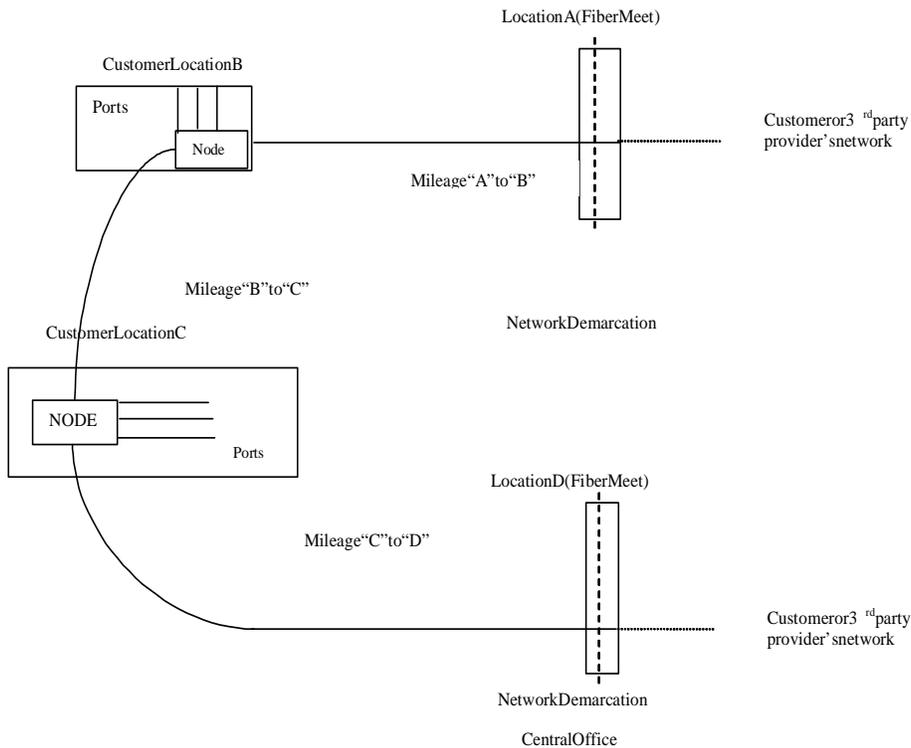
(2) Partial Ring (Cont'd)

(d) When ordering lower speed channels that originate at and terminate to nodes which are not within the partial ring provided by the Telephone Company, the customer must provide the Telephone Company with a copy of the order. This order provides the Telephone Company with authority to perform the necessary mapping of the channel through the partial ring to ensure continuity of the signal over the jointly provided ring. A Channel Mapping nonrecurring charge will apply for each channel mapped through the Telephone Company provided partial ring. Channel mapping charges do not apply when ordering channels that originate at and/or terminate to nodes on the Telephone Company's portion of the partial ring.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

- 20. **Ethernet Private Line** (Cont'd)
- 20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)
- (B) **Service Description** (Cont'd)
 - (2) Partial Ring (Cont'd)
 - (e) An example of a partial Dedicated SONET Ring is diagrammed below:



Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) # (Cont'd)****(B) Service Description (Cont'd)****(3) Ring-On-Ring**

When DSR is provided in a ring on ring design the following requirements apply:

- The lower speed ring must have a minimum of two enhanced nodes located at the customer premises or Company wire center; and
- The Company must provide the lower speed enhanced nodes; and
- Each lower speed node must be located at the same customer premises or Company wire center as its corresponding higher speed node.

(4) Subtending Rings

The customer may interconnect two (2) or more full rings in a subtending ring configuration subject to the following:

- (a) One (1) of the DSR full rings must be designated by the customer as the main ring from which the other DSR full ring(s) will subtend. The main ring must be of equal or greater capacity than each DSR full ring that subtends the main ring. For example, a main ring that is an OC12 DSR can have an OC3 and/or OC12 subtending ring but can not have an OC48 subtending ring. The number of rings that can subtend a main ring may be limited by the type and capacity of the nodes and port configuration specific to the customer's overall DSR service configuration.
- (b) Interconnection between the main ring and the subtending ring occurs via a port node. A port node provides high speed interconnection between an enhanced node on the main ring and the high speed facilities on the subtending ring, and applies in lieu of the enhanced node on the subtending ring at that location. Each subtending ring requires one port node at the point of interconnection to the enhanced node on the main ring. Interconnection between the main ring and a subtending ring may occur at a customer designated premises or within a Telephone Company wire center where such nodes are located. Up to two (2) points of interconnection are allowed per subtending ring. A port node is required per point of interconnection.
- (c) Only DSR full rings that utilize suitably equipped enhanced nodes can be arranged in subtending ring configurations.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(B) Service Description (Cont'd)****(4) Subtending Rings (Cont'd)**

- (d) Each ring included in a subtending ring configuration must be arranged as a unidirectional path switched ring (UPSR) and must use enhanced nodes. Bidirectional line switched rings (BLSR) may not be arranged in subtending ring configurations.
- (e) DSR partial rings may not be arranged in subtending ring configurations.
- (f) Where two (2) points of interconnection between the subtending ring and the main ring are provided, circuits originating on the main ring may be mapped to the subtending ring and circuits originating on the subtending ring may be mapped to the main ring. Channels mapped across the two (2) interconnecting nodes are subject to Dual Node Cross-connect Channel Mapping charges as described in (B)(4)(m) following.
- (g) The main ring and any subtending rings associated with the main ring must individually meet the minimum requirement of three (3) nodes except that only one (1) node for the entire service configuration must be located in a Telephone Company wire center. For example, if the main ring has one (1) node located in a Telephone Company wire center and two (2) nodes located at customer designated premises, the subtending ring(s) need not have a node that is located in a Telephone Company wire center.
 - (1) When determining if the minimum number of nodes on a subtending ring has been met, the port node providing interconnection to the main ring is included in the count.
 - (2) When determining if the minimum number of nodes on a subtending ring has been met, the enhanced node on the main ring that interconnects with the subtending ring is not included in the count.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)(B) Service Description (Cont'd)

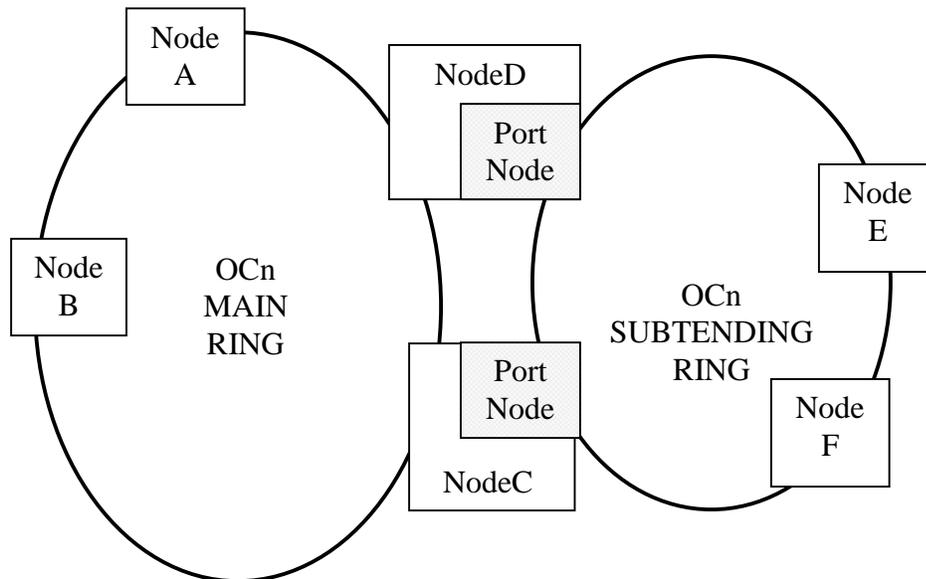
(4) Subtending Rings (Cont'd)

(h) Each subtending ring may only interconnect with one (1) main ring.

(i) Subtending ring configurations may be established using new DSR full rings, existing DSR full rings, or a combination of new and existing DSR full rings.

(j) All DSR rings in the same subtending ring configuration must be billed to the same customer.

(k) An example of a subtending ring configuration with two (2) points of interconnection to the main ring is diagrammed below:



Applicable rate elements:

- Nodes (6)
- Port Node (2)
- Mileage for circumference of Main Ring
- Mileage for circumference of Subtending Ring

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)

(B) Service Description (Cont'd)

(4) Subtending Rings (Cont'd)

- (l) Lower speed services provided over DSR must ingress at a node on either ring (the main ring or the subtending ring) and egress at a node on either ring (the subtending ring or the main ring). A single port charge applies at the point of ingress and a single port charge applies at the point of egress, unless the ingress and/or egress occurs via an asymmetrical port facility in which case a separate port charge will not apply for each such ingress or egress.
- (m) At the customer's option, a lower level service may interconnect the main and one (1) or more of the subtending ring(s) through two (2) separate points of interconnection with each subtending ring. In this case, a single Dual Node Cross-connect Charge applies per lower level service provided across the interconnecting port nodes, regardless of the number of subtending rings involved. The Dual Node Cross-connect Charge does not apply when a lower level service interconnects the main and subtending ring(s) through a single point of interconnection.
- (n) In the event that the customer elects to make a subtending ring an independent full DSR, the independent full DSR ring must meet all of the requirements for a DSR full ring as set forth in (B)(1) preceding. This may require an additional node in order to satisfy the minimum node requirement for a single, independent ring.

Service availability limited. Refer to # footnote on Page 20-128.

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20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(B) Service Description (Cont'd)**

- (5) The customer must provide, at no cost to the Telephone Company, suitable and secure space, suitable environmental conditions, and uninterrupted power supply, building entrance facilities, and conduit for placement of the facilities and network equipment at its locations as necessary to provide the service.
- (6) The customer will be billed additional charges for any charges levied the Telephone Company for space and power required to place ADMs on the Company's side of the network interface.
- (7) Connections to Other Services
 - (a) DSR may connect to Dedicated SONET Optical Transport Service (DSOTS) optical transport channels as set forth in 20.1, preceding. DSOTS combines Dense Wave Division Multiplexing (DWDM) and SONET technologies to create a high-speed backbone network configured in a ring architecture.
 - (b) Reserved for Future Use
 - (c) Reserved for Future Use
 - (d) Ethernet Private Line STS1, OC3, OC3c, OC12, OC12c, and OC48 Ethernet-to-SONET mapped services (as set forth in Section 20.3 following) may be connected to Special Access STS1, OC3, OC3c, OC12, OC12c, and OC48 ports, respectively, via symmetrical or asymmetrical port arrangements.
- (1) In a symmetrical port arrangement, one (1) of such ports applies on the higher-speed node at the Telephone Company wire center where the service enters the ring, and a second port of the same capacity applies on the higher-speed node where the service exits the ring. For example, a Ethernet Private Line OC3c Ethernet-to-SONET mapped service would require two (2) OC3c ports in a symmetrical port arrangement (one port to enter the ring and one port to exit the ring).

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(B) Service Description (Cont'd)****(7) Connections to Other Services (Cont'd)****(d) (Cont'd)**

- (2) In an asymmetrical port arrangement, one of such ports referenced above applies on the higher-speed node at the Telephone Company wire center where the service enters the ring, and the service exits the ring via the OCn port associated with the Asymmetrical Port Facility. More than one such service referenced above may utilize the same Asymmetrical Port Facility and OCn Port of that Asymmetrical Port Facility. For example, three (3) Ethernet Private Line OC12 Ethernet-to-SONET mapped services require 3 OC12 ports (one port for each service) to enter the ring, and all 3 of such services could be provided over an OC48 Asymmetrical Port Facility, and exit the ring via the same OC48 port of that facility. The number of services that can exit the ring via the same port is limited by the STS1 capacity utilized for the connecting service.

- (e) Ethernet services are provided on a point-to-point basis (i.e., native Ethernet to native Ethernet) between two suitably equipped DSR enhanced nodes. Additionally, Ethernet Private Line Gigabit Ethernet (transmitted at 50, 150, 300, 450, 600 Mbps or Full Rate) may be connected to a DSR CO Node. Native to native Ethernet services may not be provided over an asymmetrical port facility.

The connection of Ethernet Private Line Gigabit Ethernet to DSR will occur via a DSR GigE-1, 3, 6, 9, 12 or 24 port on the CO Node. When customers who subscribe to Ethernet Private Line under a one-year commitment period connect their Ethernet Private Line Gigabit Ethernet service to DSR, the DSR GigE ports will be billed at month-to-month rates. Ethernet Private Line Gigabit Ethernet is further described in Section 20.3 following.

Reserved for Future Use

- (f) Extended Superframe Format (ESF) is preferred on all DS1 circuits in order to ensure performance objectives.

- (g) DSR may also be connected to the following Telephone Company provided services, provided that such connections are technically and operationally feasible, as determined by the Telephone Company:
- (h)

- DWDM ring service
- point-to-point SONET service
- ethernet private line service
- dedicated SONET ring service

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)

(C) **Service Components**

The service components of DSR include:

- Nodes and Subtending Nodes
- Port Nodes
- Ports
- High Speed Interfaces (certain partial ring configurations only)
- Mileage between nodes
- Optional Features

(1) Nodes and Subtending Nodes

- (a) The customer specifies the ring capacity in terms of optical carrier rates. DSR is available in capacities of OC3, OC12, OC48 and OC192. Lower speed channel services are provided between nodes via port designations.
- (b) When two nodes are located in the same building, there will be no diversity between the two nodes.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(C) Service Components (Cont'd)****(1) Nodes and Subtending Nodes (Cont'd)****(c) Accepted port speeds are as follows:**

<u>Enhanced Nodes:</u>	<u>OC3</u>	<u>OC12</u>	<u>OC48</u>	<u>OC192</u>
DS1 Ports	X	X	X	X
DS3 Ports	X	X	X	X
STS1 Ports	X	X	X	X
DS3 Transmux Ports	X	X	X	X
OC3 Ports		X	X	X
OC12 Ports			X	X
OC48 Ports				X
Ethernet Ports				
GigE-1 Ports	X	X	X	X
GigE-3 Ports		X	X	X
GigE-6 Ports		X	X	X
GigE-9 Ports		X	X	X
GigE-12 Ports			X	X
GigE-24 Ports			X	X

(d) Additional nodes could be required to maintain service quality levels. Generally, a transmission of 20 or more miles or a transmission through 6 or more COs will be subject to loss of signal integrity, and would require an additional node. A regeneration node requires a full capacity node, i.e., an OC3 node cannot be used to regenerate transmission on an OC12 ring.

Service availability limited. Refer to # footnote on Page 20-128.

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20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(C) Service Components (Cont'd)****(1) Nodes and Subtending Nodes (Cont'd)**

(e) The customer may provide a single node and associated port equipment at one of its premises subject to compatibility with the Company's equipment in the COs. This compatibility requires that the customer, at its own expense, uses matching vendor's equipment and maintains the same vintage in software release as the Company. Upon written notification from the Company, the customer has 60 days in which to complete the change out of software. In addition, the customer must configure the node to limit access to the data communications channel of the node.

(f) The Company can not ensure the performance monitoring of the ring when it is equipped with customer provided nodes.

(g) Subtending Nodes

(1) A subtending node is an enhanced node that subtends another enhanced node of a higher speed (e.g., an OC12 enhanced node may subtend an OC192 enhanced node).

(2) More than one (1) lower speed enhanced node may subtend the same higher speed enhanced node.

(3) The connection between the higher and lower speed enhanced nodes is a SONET facility (Subtending Node Facility) between an OCn port on the higher speed node and the lower speed node which must be of the same optical carrier rate as the OCn port on the higher speed node.

(4) When the higher speed enhanced node is located at a customer designated premises, the subtending node(s) must be located at the same customer designated premises.

(5) When the higher speed enhanced node is located at a Telephone Company wire center, the subtending node(s) may be located within that same wire center or extended to a customer designated premises that is served by that wire center or by a different wire center. When extending the subtending node to a customer designated premises, the subtending node facility is subject to a channel extension charge. When the customer designated premises is not served by the same wire center as the higher speed enhanced node, mileage applies between the wire centers involved. Mileage applies in addition to the channel extension charge.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(C) Service Components (Cont'd)****(1) Nodes and Subtending Nodes (Cont'd)**

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

(i) When DSR is ordered under a meet point billing arrangement in which the Telephone Company acts as an intermediate carrier as set forth in Section 2.7.3 preceding, at least one node of the DSR ring must be in a Company CO.

(2) Ports

(a) Ports may be ordered in a symmetrical arrangement (e.g., DS3 Port to DS3 Port), an asymmetrical arrangement (e.g., OC12 Port to DS3 Port) as set forth in (C)(2)(c) following, or in certain transmuring arrangements as set forth in (C)(2)(d) following. Ports are not provided at mutually agreed upon locations where a high speed (pass-through) interface is utilized.

(b) (Reserved for Future Use)

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(C) Service Components (Cont'd)****(2) Ports (Cont'd)****(c) Asymmetrical Ports**

- (1) Asymmetrical ports allow lower level services to be added to, and dropped from, DSR using ports with different transmission rates. For example, a DS1 channel can be added to the ring via a DS3 port and dropped from the ring via a DS1 port. These lower level services may originate and/or terminate at locations that are on or off of the DSR.
- (2) For OCn ports, the port with the higher transmission rate uses a facility (Asymmetrical Port Facility or (APF), which is also referred to as a Stub Hub), which is channelized to individual services requiring lower capacity facilities and lower capacity ports. Only one (1) such higher transmission rate OCn port applies per asymmetrical port facility. The number of lower capacity services that can utilize the same APF is limited by the total STS1 capacity of the connecting services. Available transmission rates for the APF are dependent on the capacity of the port to which it is connected. For example, an OC12 APF cannot be established on an OC3 Port. Additionally, the capacity of the port is dependent on the capacity of the node involved.
- (3) The APF provides a two-point channelized facility between a customer designated premises or an Expanded Interconnection arrangement and the OCn higher transmission rate port of the asymmetrical port combination. Such port may be associated with a node that is located at either the customer designated premises or within a Telephone Company wire center.
 - (a) When the APF is located at the customer's designated premises, the APF is provided between the customer's designated premises and the port on the associated node located at that same premises. Rates and charges for the port apply as set forth in (D) following.
 - (b) When the APF is located in a Telephone Company wire center and the APF connects to a customer designated premises that is served by the same wire center, an asymmetrical port channel extension applies to extend the APF to the customer designated premises. Rates and charges for the asymmetrical port channel extension apply in addition to the rates and charges for the port as set forth in (D) following.

Service availability limited. Refer to # footnote on Page 20-128.

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20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(C) Service Components (Cont'd)**

(2) Ports (Cont'd)

(d) Transmux Ports (Cont'd)

(2) DS3 Transmux Ports utilize a DS3 Transmux Facility to which VT1.5 mapped DSR DS1 ports are associated. Such facility will be provisioned upon ordering the associated DS3 Transmux port.

(3) When transmuxing arrangements are ordered in symmetrical or asymmetrical port combinations, the following conditions apply:

- A DS1 port associated with a DS3 Transmux port and facility may not coexist as a separate DS1 port within the same DSR node.
- An end-to-end DS1 service provided over DSR may not be associated with more than one DS3 Transmux port or DS3 Transmux facility.
- DS3 Transmux ports are available at a premises node or at a wire center node.
- When a DS3 Transmux port is utilized on an enhanced node located in a Telephone Company wire center, such port must be connected to DS3 High Capacity Service as set forth in Section 6 and Section 7 preceding.
- The higher speed port of an asymmetrical port combination will be mapped based on the speed of the connecting service and port.

(e) The maximum number of ports that are supported on a node may be limited by the number and type of ports that are provided on that node. Upon installation of a new ring, the Customer must provide the Telephone Company with an initial port requirement and a forecast of future port requirements on each node which the Telephone Company will utilize when engineering the port configuration for that node.

(f) Engineering requirements must be taken into consideration when planning port configurations on enhanced nodes. Each NG-ADM platform has different port capacities. Upon installation of the ring, the customer shall provide initial port requirements and forecasts for each node to allow to design the network most efficiently.

OC12 and OC48c ports may also be utilized with service connecting to certain advanced data services.

(g)

Service availability limited. Refer to # footnote on Page 20-128.

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20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(C) Service Components (Cont'd)****(3) High Speed (Pass-Through) Interfaces**

A high-speed (pass-through) interface is a device placed at a mutually agreed upon fiber-meet location where interconnection between the facilities of the Telephone Company and those of the customer or of a third party provider occurs. The high-speed (pass-through) interface will not be utilized when such interconnection occurs within a Telephone Company CO (for which a node and fiber cross-connects apply) or at a customer's designated premises for which interconnection via a node occurs. Connection to other Telephone Company services is prohibited at locations utilizing a high-speed (pass-through) interface.

(4) Mileage

(a) DSR Mileage is the total of airline distances between enhanced nodes rounded up to the nearest mile. The mileage rate is based on total ring capacity and not on individual services between nodes.

(b) DSR Mileage on a Partial ring is the total of airline distances between devices nodes and the designated fiber meet locations (customer designated premises, wire center or mutually agreed upon pass-through location, as applicable) on the partial ring. The total mileage is then rounded up to the nearest mile.

(c) The mileage charge for a four-node OC3 ring with 5.1 miles between each node (20.4 total miles) would be calculated by multiplying the OC3 mileage rate in 20.2(K)(3) by 21 miles. This mileage calculation applies regardless of the number of services (e.g., DS3s) on the ring.

(d) Connection of DSR to an DSOTS ring is provided over an equal speed, unprotected optical transport channel (e.g. a 155.52 Mbps unprotected channel would connect to an OC3 DSR node). When DSR is provided entirely or in part over an DSOTS backbone network, connection between the DSR nodes is provided using DSOTS unprotected optical transport channels in lieu of DSR channel mileage between the nodes. Each node on the DSR ring must be located at the same customer designated premises or in the same Telephone Company wire center as its corresponding DSOTS node.

(e) When DSR is provided entirely or in part over a Telephone Company provided DWDM ring service backbone network, no DSR channel mileage will apply between the nodes.

(5) Optional Features

Optional features are described in (J) following.

(6) Port Nodes

A port node allows interconnection between two (2) full DSR rings. One (1) of the rings will be designated as the main ring and the other ring is designated as a subtending ring. Subtending rings are described in (B)(4) preceding.

Service availability limited. Refer to # footnote on Page 20-128.

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20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(D) Application of Rates and Charges**

- (1) All monthly recurring rate elements for DSRs are available for 3, 5 and 7-year commitment periods. DSR ports and asymmetrical port facilities are also available on monthly terms. Nodes, optional features, subtending node facilities, asymmetrical port facilities, and ports added subsequent to the initial installation may be coterminous to the expiration date of the DSR provided the addition is prior to the 21st month for a 3-year plan, prior to the 36th month for a 5-year plan, or prior to the 50th month for a 7-year plan. Nodes, optional features, subtending node facilities, and asymmetrical port facilities added after the aforementioned periods require extending the commitment period for an additional one year for a 3-year plan, an additional 2 years for a 5-year plan, or an additional 3 years for a 7-year plan. However, ports and asymmetrical port facilities in a Month-to-Month plan may be added at any time.
- (2) Once a term period expires, the prevailing monthly rates of the current plan will continue until the customer cancels service or requests a new term plan.
- (3) Nonrecurring Charges
 - (a) First and Additional Nonrecurring Charges for Ports
 - (1) The First Nonrecurring Charge applies to the first of each port type and speed installed at a node. The Additional Nonrecurring Charge applies for each additional port of the same type and same speed added at the same node on the same order. For example, if a customer places an order for ten (10) GigE3 Ports at the same OC48 node, one First Nonrecurring Charge and nine Additional Nonrecurring Charges will apply for the GigE3 Ports. The charge will vary based on whether the installation is in connection with the initial installation of the DSR service or a subsequent installation of ports.
 - (2) Changes in Month-to-Month billed ports or asymmetrical port facilities are treated as disconnects and subsequent installations for which subsequent nonrecurring charges apply.
 - (b) Nonrecurring charges for DSR nodes apply to all nodes installed subsequent to the initial installation of DSR.
 - (c) A Channel Mapping nonrecurring charge as set forth in (K)(b) following applies for each channel which the Telephone Company must map over the partial ring. Channel mapping is only required on channels that originate at and terminate to devices that are not within the partial ring.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)
- 20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)
- (D) **Application of Rates and Charges** (Cont'd)
- (3) Nonrecurring Charges (Cont'd)
- (d) When a lower capacity service is dropped from a DSR, the associated ports will be billed to the lower capacity service. Lower capacity services may not be dropped at locations utilizing a pass-through interface. However, a Channel Mapping charge will apply for each lower capacity service that originates at and terminates to devices that are not within the partial ring provided by the Telephone Company. The Channel Mapping Charge is billed to the lower capacity service.
- (e) When a lower capacity service is provided between two (2) separate asymmetric port facilities (APF) on the same DSR, the Telephone Company must map the facility assignment on the first APF to the facility assignment on the second APF for which an Asymmetrical Port Mapping Nonrecurring Charge applies per lower capacity service mapped.
- (f) Nonrecurring charges apply for the installation of an Optional Feature as described in (J)(1) and (J)(2) following.
- (g) A single Dual Node Cross-connect Charge applies per lower level service provided across the interconnecting port nodes of a subtending ring(s) configuration, regardless of the number of subtending rings involved. Dual Node Cross-connect Charges as set forth in (K)(11) following apply for each channel which the Telephone Company must cross-connect between the port nodes of the interconnecting ring(s).
- (4) When a node is disconnected prior to the end of the commitment period, the node is subject to termination liability under (E)(1) following.
- (5) Reserved
- (6) Where an Ethernet, Fibre Channel, or FICON signal is mapped to a SONET service, and that SONET service is provided in a symmetrical port arrangement, two (2) OCn ports apply (one where the mapped signal enters the ring and one where the mapped signal exits the ring).
- (7) Where one or more Ethernet, Fibre Channel or FICON signals are mapped to a SONET service, and that SONET service utilizes an asymmetrical port combination (e.g., the signals enter the ring mapped to an OC12 SONET service and exit the ring via an OC48 port associated with an asymmetrical port facility), only one OCn port applies per mapped signal to enter the ring and the signal exits the ring over the asymmetrical port facility. The total number of such mapped Ethernet, Fibre Channel, or FICON signals that can be associated with the OCn Port of the asymmetrical port facility is limited by the STS1 capacity required to map each signal into the SONET service. For example, assume that an OC48 APF is ordered for which an OC48 port, OC48 mileage, and, when applicable, an OC48 Extension applies (an OC48 has a capacity of 48 STS1s). Further assume that 2 Ethernet Private Line 600 Mbps Ethernet-to-SONET mapped services are ordered, each of which requires 6 STS1s when mapped into an OC12 SONET signal. In this example, the OC48 asymmetrical port arrangement would still have 36 available STS1s.
- (8) Changes in Month-to-Month billed asymmetrical port facilities are treated as disconnects and subsequent installations.

Service availability limited. Refer to # footnote on Page 20-128.

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20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(E) Termination Liability**

- (1) Unless otherwise set forth in this section, termination liability applies when DSR service or a Customer Network Management Optional Feature is terminated prior to the end of the applicable commitment term. Termination liability is charged per monthly rate element on all nodes, high speed (pass-through) interfaces, port nodes, optional features, subtending node facilities, asymmetrical port facilities, and ports (other than Month-to-Month billed ports for which the one month minimum service charges applies).
- (2) A separate termination liability charge is assessed for each rate element associated with the disconnected DSR service or a Customer Network Management Optional Feature.
- (3) DSR service or a Customer Network Management Optional Feature may be canceled without termination liability when cancellation of the DSR service or Customer Network Management Optional Feature occurs within thirty (30) days of the effective date of a Telephone Company initiated rate increase of eight percent (8%) or more on any rate applicable to the DSR service or Customer Network Management Optional Feature.
- (4) Termination liability will not apply on any DSR service or Customer Network Management Optional Feature if a customer changes to a longer term commitment period for such service.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)

(E) **Termination Liability** (Cont'd)

- (5) Termination liability will not apply to a customer upgrade (change to a higher capacity DSR service), if all of the following conditions are met. These conditions do not apply to Optional Features.
- (a) A new commitment period commenced with the upgrade.
 - (b) The new expiration date extends beyond the discontinued plan date.
 - (c) The upgrade consists of one (1) existing DSR service being upgraded into a higher capacity DSR service or two (2) existing DSR services being upgraded into a single, higher capacity DSR service.
 - (d) The new DSR service has at least one customer premises Node and one CO Node in common with the discontinued service(s).
 - (e) When two (2) existing DSR services are being upgraded into a single, higher capacity DSR service, the aggregate amount of all monthly charges for the nodes and ports included under the new commitment period is at least 25% greater than the aggregate amount of the monthly charges remaining in the commitment period for the nodes and ports being disconnected.

For illustrative purposes, assume the following:

- Customer has 2 separate OC3 DSR services
- One OC3 DSR is in its twenty-fourth (24th) month of a 3-year term plan (i.e., 12 months remain in the term commitment period) and is configured with 3 nodes and 6 ports (Ring A)
- The other OC3 DSR is in its twenty-first (21st) month of a 3-year term plan (i.e., 15 months remain in the term commitment period) and is configured with 3 nodes and 6 ports (Ring B)
- The customer is upgrading Rings A & B to a single OC12 DSR with a term plan of 3 years that is to be configured with 3 nodes and 6 ports (Ring C)

Based on the above assumptions, the following calculations are used to determine if the aggregate amount of monthly charges for the commitment period of Ring C is greater than the combined aggregate amount of monthly charges for the remainder of the commitment periods on Rings A & B and therefore, whether or not termination liability will apply to Rings A & B for the upgrade.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)

(E) **Termination Liability** (Cont'd)

(5) (Cont'd)

Step 1 – Determine the amount of monthly charges remaining on Ring A for the balance of the term commitment by multiplying the monthly rates for the 3 nodes and 6 ports (assume \$4680 per month) by the 12 months remaining in the term commitment = \$56,160.

Step 2 - Determine the amount of monthly charges remaining on Ring B for the balance of the term commitment by multiplying the monthly rates for the 3 nodes and 6 ports (assume \$4680 per month) by the 15 months remaining in the term commitment = \$70,200.

Step 3 – Determine the combined aggregate amount of monthly charges remaining for Rings A & B by summing the amounts determined in Steps 1 and 2 (\$56,160 + \$70,200 = \$126,360).

Step 4 – Determine the aggregate amount of monthly charges associated with Ring C by multiplying the monthly rates (assume \$9390) by 36 months for the term commitment = \$338,040.

Step 5 – Determine the difference between the monthly charges for the existing service and the monthly charges for the upgraded service by subtracting the combined aggregate amount determined in Step 3 from the aggregate amount determined in Step 4 (\$338,040 - \$126,360 = \$211,680).

Step 6 - Divide the result obtained in Step 5 by the aggregate amount determined in Step 3 (\$211,680/\$126,360 = 1.675). Convert the decimal amount to a percentage by multiplying by 100 (1.675 x 100 = 167.5%).

If the result is equal to or greater than 25%, then the upgrade occurs without the application of termination liability on Rings A & B. If the result is less than 25%, termination liability applies to Rings A & B in accordance with this Section 20.2(E). Standard rounding rules apply. For this example, the result is 167.5%; therefore, termination liability does not apply.

Additional nodes and ports added at the time of the upgrade incur all applicable rates.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)

(E) Termination Liability (Cont'd)

(5) (Cont'd)

(f) Termination liability will apply when none of the conditions above are met and the customer cancels service prior to expiration of the plan period. If the cancellation occurs within the first two years of a term plan, termination liability is equal to 100 percent of the monthly charges for the unexpired portion of the first two years, and 25 percent of the monthly charges for the remainder of the plan. If the customer cancels after the first two years of service, then termination liability is equal to 25 percent of the monthly charges for the remaining life of the term.

(g) For Dedicated SONET Ring (DSR) with a commitment period which was extended under (I) following, termination liability is calculated as the difference between the monthly rates for the highest Term Pricing Plan commitment period that could have been satisfied prior to disconnection of the service or cancellation of the plan and the monthly rates already paid for the expired commitment period and the extended commitment period for the period of time the service was in effect.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(F) Conversions**

Customers who wish to move or convert existing High Capacity Special Access Services to DSR may do so without conversion charges (termination liability and installation charges) as long as the total capacity of Special Access services purchased by the customer does not change.

Customers who wish to move or convert existing Custom Connect to a DSR may do so without Custom Connect initial termination liability charges as set forth in 20(G)(5) preceding or DSR installation charges as long as the total capacity of Special Access services purchased by the customer does not decrease. The customer also has the option to select a Term Pricing Plan (TPP) for their DSR that is longer than the TPP on Custom Connect.

When the following conditions are met, a customer who converts a Custom Connect Ring to DSR is also eligible to receive credit towards the commitment period of the replacing DSR TPP for the actual time that the Custom Connect Ring was in effect under its current TPP (i.e., time-in-service credit). Time-in-service associated with prior TPPs for Custom Connect are not eligible for time-in-service credit. Time-in-service credit is further described in (I) following. Such credit is not allowed unless the conditions set forth in (1) through (5) following are met.

- (1) All rate elements associated with the Custom Connect Ring must have been in service under its TPP for at least 10 months.
- (2) The commitment period selected for the DSR TPP must be longer than the commitment period of the TPP for the Custom Connect Ring being converted as follows:
 - (a) Custom Connect Ring under a 1 year TPP may be converted to DSR under a 3, 5 or 7 year Term Plan.
 - (b) Custom Connect Ring under a 3 year TPP may be converted to DSR under a 5 or 7 year TPP.
 - (c) Custom Connect Ring under a 5 year TPP may be converted to DSR under a 7 year TPP.
- (3) The Custom Connect Ring being converted to DSR must utilize enhanced nodes. Enhanced nodes are OCn nodes that meet the technical requirements to provide DSR. These nodes are technically capable of providing DS1 and DS3 drops directly from an OCn node terminal as delineated in this Section 20.2 and in Section 20(D)(1)(j) preceding.
- (4) The enhanced nodes utilized on the Custom Connect Ring must be capable of being upgraded to the OCn enhanced nodes required for DSR. The technical ability to upgrade such nodes will be determined by the Telephone Company during the planning session with the customer.
- (5) The customer acknowledges that portions of the ring will experience a service outage during those times when the nodes are being upgraded. Service outages that occur during such periods of upgrade are not subject to credit for a service interruption as set forth in Section 2.7.1.1 preceding.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(G) Deployment and Availability**

Since DSR service provides a dedicated high capacity customized network, it is deployed upon customer request. Where suitable facilities are not available to provide DSR, the Telephone Company will construct facilities for DSR in the same manner in which it constructs facilities for DSOTS under Section 20.1(G) preceding.

DSR is available based on negotiated intervals as described in 5.1.7, preceding.

(H) Shared Use

Shared use is permitted whenever Special Access and Switched Access are provided over the same DSR. At least one channel of a service (e.g., DS1 or DS3) on the ring must be Special Access for the service to be billed as Special Access.

The node, mileage and port rate elements are reduced (ratcheted) to offset the Switched Access charges for the entrance facility, and mileage. Two separate reduction ratios are used. The reduction ratio for the node and mileage charges is calculated by dividing the number of switched DS0 equivalents in use on the DSR by the total DS0 equivalent quantities for the ring; see the table below.

<u>Ring Type</u>	<u>DS3 Quantities</u>	<u>DS1 Quantities</u>	<u>DS0 Quantities</u>
OC3	3	84	2,016
OC12	12	336	8,064
OC48	48	1,344	32,256
OC192	192	5,370	129,024

The reduction ratio for the port charge is calculated by dividing the number of switched DS0 equivalents in use on the channelized services on the DSR (the lower speed services on the ring) by the total number of DS0 equivalents that are in use on the channelized services on the DSR.

If the DSR is used to route Switched Access traffic between Telephone Company Wire Centers, then Switched Access Direct Trunk Transport rates are also applied.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(l) Extension of a Commitment Period**

- (1) For Dedicated SONET Ring (DSR), the customer also has the option, within sixty (60) days prior to the expiration date for its commitment period, to extend its expiring Term Pricing Plan to a plan with a longer commitment period, for which time-in-service credit will be allowed for the expiring plan. The commitment period selected for the extended plan must be longer than the commitment period of the expiring plan as follows:
 - An expiring 3-Year Term may be extended to either a 5-Year or 7-Year Term Plan.
 - An expiring 5-Year Term may be extended to a 7-Year Term Plan.
- (2) Time-in-service credit on the expiring plan will be granted and applied towards the new extended plan. For example, an expiring 3-Year term plan will allow for 3 years of time-in-service credit towards the extended plan.
- (3) The discount percentage associated with the extended plan will apply effective with the first bill day following expiration of the commitment period for the existing plan and continue through the remainder of the commitment period associated with the extended plan. No adjustment for the increased discount percentage associated with the extended plan will be made to the monthly rates already billed on the expiring plan.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(J) Optional Features**

The customer has the option of purchasing a Customer Network Management Optional Feature for use with a DSR service provided by the Telephone Company in accordance with this Section 20.2. In order to purchase an Optional Feature, the customer must be subscribed to a DSR service and must use such DSR service in conjunction with the selected Optional Feature.

(1) Customer Service Management Optional Feature**(a) Description**

Customer Service Management Optional Feature (CSM) provides a customer with real-time information about the operational status of its DSR network and the ability to reconfigure lower level services riding the DSR ring. Three (3) Service Levels of support are offered for CSM. Each Service Level provides different functionalities to which the customer may gain access. These functionalities are described following and include access to real-time information about the customer's DSR network, the ability to generate reports, and the ability to reconfigure lower level services riding the DSR ring. When ordering CSM, the customer must specify the level of CSM support as one of the following three (3) Service Levels.

(1) Level 1 support provides a network view of real-time detection and reporting of network alarm conditions within the customer's DSR network.

(2) Level 2 support provides the same support described in Level 1 along with the ability for the customer to generate basic network performance reports for its DSR network. In accordance with (J)(1)(c)(5), the customer may also request network performance reports that are customized to meet their specific needs.

(3) Level 3 support provides the same support described in Levels 1 and 2 along with the ability to reconfigure (re-map) the end points of lower level services riding the ring.

(a) Reconfiguration using CSM consists of re-mapping the end point of a primary circuit to its preplanned (backup) port location. The customer must specify a preplanned port location for each primary circuit installed. The preplanned port location is a backup location that is activated and de-activated when a primary circuit is reconfigured at the request of the customer via the CSM platform. A reconfiguration is limited to the mapping of one primary circuit to its assigned preplanned location. For each preplanned port location, a monthly recurring rate and a nonrecurring installation charge apply per port in accordance with (J)(1)(b) following. When the primary circuit and preplanned port are billed to a customer other than the DSR customer (Service User), the Service User must provide a Letter of Authorization (LOA) signed by both the Service User and the DSR customer (Host Customer). The LOA must include an acknowledgment that the Host Customer has the ability to perform CSM functions (e.g., reconfiguration) on the portion of the Service User's service that rides the DSR.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(J) Optional Features (Cont'd)****(1) Customer Service Management Optional Feature (Cont'd)****(a) Description (Cont'd)****(3) (Cont'd)**

(b) A Telephone Company Performed Reconfiguration charge, as described in (J)(1)(b)(2)(g) following, will apply when the customer requests that the Telephone Company perform a reconfiguration of service on its behalf. This charge does not apply when a customer performs its own service reconfiguration.

(c) Reconfiguration is not permitted on services arranged in the following service configurations:

Switched Access Service;
service provided under a shared use arrangement;
service associated with Centrex-CO or Primary Rate ISDN service; or
primary circuits for which the customer has not specified a preplanned backup location.

(d) The type of nodes deployed within the DSR network may limit reconfiguration of OC12/OC12c circuits within an OC48 DSR. CSM is not available on partial ring configurations.

(e) When CSM is added to an existing ring, existing circuits that are being made reconfigurable will require that an Access Order be issued to designate the circuit as reconfigurable. Nonrecurring charges as set forth in Section 5 preceding may apply. The Telephone Company's ability to provide CSM on a particular ring may be limited by the overall configuration of that ring. Reconfiguration is limited to those circuits that originate and/or terminate on the ring (i.e., at locations served by a node on the ring) and utilize ports that are symmetrical. For circuits that originate or terminate off the ring (i.e., at locations not served by a node on the ring), the reconfiguration is limited to customer premises node locations on the ring.

(b) Rate Regulations

CSM rates and charges are set forth in (K)(7)(a) following, unless noted otherwise. CSM rates and charges apply in addition to any applicable DSR rates and charges as described in (K) following. Unless otherwise indicated below, CSM rates and charges apply regardless of the Service Level selected by the customer.

(1) Monthly Recurring Rate

(a) A CSM Service Level rate applies for each DSR ring provided with CSM.

(b) For customers subscribing to Service Level 3 support, a Preplanned Port rate, as set forth in (K)(7)(a)(2) following, applies for each preplanned port location established.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)

(J) **Optional Features** (Cont'd)

(1) **Customer Service Management Optional Feature** (Cont'd)

(b) **Rate Regulations** (Cont'd)

(2) **Nonrecurring Charge**

- (a) A Node Setup charge applies for each node that is equipped with CSM at the time that CSM is initially established on the ring.
- (b) An Add/Remove Node charge applies for each node that is subsequently added to, or removed from, a ring that has already been equipped to provide CSM.
- (c) An Initial CSM Setup charge applies for establishment of the customer's initial CSM database partition. The initial CSM database partition includes setup for up to six (6) users.
- (d) A Setup of Additional Users charge applies for the setup of up to six (6) additional users beyond those provided with the initial database setup when CSM is initially established on the ring.
- (e) A Setup of Additional Partition or Change in CSM Service Level charge applies for the setup of an additional CSM database partition created for the same customer or to change from one CSM service level to another (e.g., change Service Level 2 to Service Level 3). Each additional CSM database provides for the setup of up to six (6) additional users.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)

20.2 Dedicated SONET Ring (DSR) #(Cont'd)

(J) Optional Features (Cont'd)

(1) Customer Service Management Optional Feature (Cont'd)

(b) Rate Regulations (Cont'd)

(2) Nonrecurring Charges (Cont'd)

(f) A Consultation and Support charge applies for each thirty (30) minutes or fraction thereof that the customer requests Telephone Company consultation and support of its CSM network. This charge does not apply during initial setup of CSM on the ring.

(g) A Telephone Company Performed Reconfiguration charge applies for Service Level 3 customers only when the customer requests that the Telephone Company perform a reconfiguration based on its pre-mapping instructions.

(h) A Preplanned Port charge in (K)(7)(a)(2) following, applies for Service Level 3 customers only for each port associated with a preplanned location that is established during the initial establishment of CSM on the ring.

(c) Terms and Conditions

(1) The customer must utilize Internet web access to connect its customer-provided terminal equipment to the Telephone Company's CSM management system. Access to the Internet and any associated rates and charges are the responsibility of the customer. The customer is also responsible for obtaining communications software that is compatible with the software the Telephone Company utilizes to provide CSM. The Telephone Company will work cooperatively with the customer to determine compatibility of its communications software.

(2) CSM is provided only when the Telephone Company provides all nodes on the ring.

(3) Subject to the restrictions set forth in (J)(1)(c)(4) following, CSM is provided coincident with the installation of the associated DSR ring or may be added to an existing ring. The customer will be responsible for the rates and charges set forth in (J)(1)(b) preceding (Rate Regulations).

(4) CSM Service Level is provided under a term plan of 3 years, 5 years, or 7 years, as described following.

(1) The duration of the term plan for CSM Service Level must be the same duration as the term plan for the DSR nodes provided with CSM. The customer has the option of subscribing to Preplanned Ports on a month-to-month basis or under a term plan of 3, 5, or 7 years. At the expiration of its 3, 5, or 7 year term plans for CSM Service Levels or Preplanned Ports, the customer has the option of extending CSM Service Level or Preplanned Ports with a coterminous end date as described in (J)(1)(c)(4)(b) following.

(2) The expiration date of each CSM Service Level added subsequent to the initial installation must be coterminous to the expiration date of the associated DSR service, provided that the addition is prior to the 21st month for a 3-year plan, prior to the 36th month for a 5-year plan, or prior to the 50th month for a 7-year plan. A CSM added after the aforementioned periods requires extension of the commitment period for the associated DSR service in accordance with this Section 20.2. Such extension results in the establishment of a new plan that includes both the DSR and the CSM under the same plan with the same expiration date.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)

(J) **Optional Features** (Cont'd)

(1) **Customer Service Management Optional Feature** (Cont'd)

(c) **Terms and Conditions** (Cont'd)

(5) With Service Level 2 or 3 support, the customer may retrieve certain basic reports containing performance-monitoring information on its DSR network, as designated and provided by the Telephone Company. Basic reports are available at no additional charge to the customer. The customer may also request that a report be customized to meet its particular needs. Rates and charges for customized reports are provided on an individual case basis (**ICB**) only. Reports are not provided with Level 1 support.

(6) CSM is subject to termination liability if CSM is removed prior to completion of the existing commitment period. The terms and conditions in (E) preceding, as applicable, apply to removal of CSM prior to completion of the existing commitment period.

(7) When the primary circuit and preplanned port are billed to a customer other than the DSR customer (Service User), the Service User must provide a Letter of Authorization (LOA) signed by both the Service User and the DSR customer (Host Customer). The LOA must include an acknowledgment that the Host Customer has the ability to perform CSM functions (e.g., reconfiguration) on the portion of the Service User's service that rides the DSR.

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)20.2 Dedicated SONET Ring (DSR) #(Cont'd)(K) Rates & Charges(1) Enhanced Node Monthly Rates, per Node
(Jurisdiction: All Jurisdictions)

<u>Enhanced Node Type</u>	<u>3-Year Term</u>	<u>5-Year Term</u>	<u>7-Year Term</u>
OC3	\$1,330.00	\$1,290.00	\$1,186.00
OC12	\$2,900.00	\$2,700.00	\$2,430.00
OC48	\$4,800.00	\$4,604.00	\$4,143.00
OC192	\$10,000.00	\$9,200.00	\$8,280.00

Enhanced Node Subsequent Installation , per node (any capacity)*

(2)	:	<u>Nonrecurring Rates</u> \$1,599.00
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Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)(K) **Rates & Charges** (Cont'd)(2) Mileage - Monthly Rates, per mile between nodes
(Jurisdiction: All Jurisdictions)

<u>Ring Type</u>	<u>3-Year Term</u>	<u>5-Year Term</u>	<u>7-Year Term</u>
OC3	\$325.00	\$300.00	\$275.00
OC12	\$335.00	\$320.00	\$300.00
OC48	\$450.00	\$420.00	\$400.00
OC192	\$1,390.00	\$1,279.00	\$1,215.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)20.2 Dedicated SONET Ring (DSR) #(Cont'd)(K) Rates & Charges (Cont'd)(3) Ports – Monthly Rates per Enhanced Node
(Jurisdiction: All Jurisdictions)

<u>Port Type</u>	<u>3-Year Term</u>	<u>5-Year Term</u>	<u>7-Year Term</u>
DS1at OC3 Node	\$28.00	\$28.00	\$28.00
DS1at OC12 Node	\$28.00	\$28.00	\$28.00
DS1at OC48 Node	\$28.00	\$28.00	\$28.00
DS1at OC192 Node	\$28.00	\$28.00	\$28.00
DS3 or STS1 at OC3 Node	\$115.00	\$115.00	\$115.00
DS3 or STS1 at OC12 Node	\$115.00	\$115.00	\$115.00
DS3 or STS1 at OC48 Node	\$115.00	\$115.00	\$115.00
DS3 or STS1 at OC192 Node	\$115.00	\$115.00	\$115.00
DS3 Transmux at OC3 Node*	\$400.00	\$400.00	\$400.00
DS3 Transmux at OC12 Node	\$400.00	\$400.00	\$400.00
DS3 Transmux at OC48 Node	\$400.00	\$400.00	\$400.00
DS3 Transmux at OC192 Node	\$400.00	\$400.00	\$400.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)(K) **Rates & Charges** (Cont'd)(3) Ports – Monthly Rates per Enhanced Node (Cont'd)
(Jurisdiction: All Jurisdictions)

<u>Port Type</u>	<u>Month to Month</u>
DS1 at OC3 Node	\$28.00
DS1 at OC12 Node	\$28.00
DS1 at OC48 Node	\$28.00
DS1 at OC192 Node	\$28.00
DS3 or STS1 at OC3 Node	\$115.00
DS3 or STS1 at OC12 Node	\$115.00
DS3 or STS1 at OC48 Node	\$115.00
DS3 or STS1 at OC192 Node	\$115.00
DS3 Transmux at OC3 Node*	\$400.00
DS3 Transmux at OC12 Node	\$400.00
DS3 Transmux at OC48 Node	\$400.00
DS3 Transmux at OC192 Node	\$400.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)(K) **Rates & Charges** (Cont'd)

(3) Ports – Monthly Rates per Node (Cont'd)

<u>Port Type</u>	<u>3 Year Term</u>	<u>5-Year Term</u>	<u>7-Year Term</u>
OC3 at OC12 Node	\$343.00	\$343.00	\$343.00
OC3 at OC48 Node	\$343.00	\$343.00	\$343.00
OC3 at OC192 Node	\$343.00	\$343.00	\$343.00
OC3c at OC12 Node	\$274.00	\$274.00	\$274.00
OC3c at OC48 Node	\$274.00	\$274.00	\$274.00
OC3c at OC192Node	\$274.00	\$274.00	\$274.00
OC12 at OC48 Node	\$642.00	\$642.00	\$642.00
OC12 at OC192 Node	\$642.00	\$642.00 \$	642.00
OC12c at OC48 Node	\$514.00	\$514.00	\$514.00
OC12c at OC192Node	\$514.00	\$514.00	\$514.00
OC48 at OC192 Node	\$1,400.00	\$1,400.00	\$1,400.00
OC48c at OC192Node	\$1,200.00	\$1,200.00	\$1,200.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)(K) **Rates & Charges** (Cont'd)

(3) Ports – Monthly Rates perEnhanced Node (Cont'd)

<u>Port Type</u>	<u>Month to Month</u>
OC3 at OC12 Node	\$343.00
OC3 at OC48 Node	\$343.00
OC3 at OC192 Node	\$343.00
OC3c at OC12 Node	\$274.00
OC3c at OC48 Node	\$274.00
OC3c at OC192Node	\$274.00
OC12 at OC48 Node	\$642.00
OC12 at OC192 Node	\$642.00
OC12c at OC48 Node	\$514.00
OC12c at OC192Node	\$514.00
OC48 at OC192 Node	\$1,400.00
OC48c at OC192Node	\$1,200.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)20.2 Dedicated SONET Ring (DSR) #(Cont'd)(K) Rates & Charges (Cont'd)

(3) Ports – Monthly Rates per Enhanced Node (Cont'd)

<u>Port Type</u> <u>-Special</u>	<u>Month to Month</u>	<u>3-Year Term</u>	<u>5-Year Term</u>	<u>7-Year Term</u>
Gigabit Ethernet				
GigE1 at OC3 Node*	\$230.00	\$230.00	\$230.00	\$230.00
GigE1 at OC12 Node	\$230.00	\$230.00	\$230.00	\$230.00
GigE1 at OC48 Node	\$230.00	\$230.00	\$230.00	\$230.00
GigE1 at OC192 Node	\$230.00	\$230.00	\$230.00	\$230.00
GigE3 at OC12 Node	\$345.00	\$345.00	\$345.00	\$345.00
GigE3 at OC48 Node	\$345.00	\$345.00	\$345.00	\$345.00
GigE3 at OC192 Node	\$345.00	\$345.00	\$345.00	\$345.00
GigE6 at OC12 Node	\$455.00	\$455.00	\$455.00	\$455.00
GigE6 at OC48 Node	\$455.00	\$455.00	\$455.00	\$455.00
GigE6 at OC192 Node	\$455.00	\$455.00	\$455.00	\$455.00
GigE9 at OC12 Node	\$535.00	\$535.00	\$535.00	\$535.00
GigE9 at OC48 Node	\$535.00	\$535.00	\$535.00	\$535.00
GigE9 at OC192 Node	\$535.00	\$535.00	\$535.00	\$535.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)20.2 Dedicated SONET Ring (DSR) #(Cont'd)(K) Rates & Charges (Cont'd)

(3) Ports – Monthly Rates perEnhanced Node (Cont'd)

<u>Port Type</u>	<u>Month to Month</u>	<u>3-Year Term</u>	<u>5-Year Term</u>	<u>7-Year Term</u>
<u>-Special</u>				
Gigabit Ethernet				
GigE12 at OC48 Node	\$645.00	\$645.00	\$645.00	\$645.00
GigE12 at OC192 Node	\$645.00	\$645.00	\$645.00	\$645.00
GigE24 at OC48 Node	\$880.00	\$880.00	\$880.00	\$880.00
GigE24 at OC192 Node	\$880.00	\$880.00	\$880.00	\$880.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)20.2 Dedicated SONET Ring (DSR) #(Cont'd)(K) Rates & Charges (Cont'd)

(4) Ports – Nonrecurring Charges

(a) Initial Installation Charges: Month-to-Month ports only
(Jurisdiction: All Jurisdictions)

<u>Port Type</u>	<u>First</u>	<u>Additional</u>
DS1 at OC3 Node	\$525.00	\$210.00
DS1 at OC12 Node	525.00	210.00
DS1 at OC48 Node	525.00	210.00
DS1 at OC192 Node	525.00	210.00
DS3 or STS1 at OC3 Node	805.00	343.00
DS3 or STS1 at OC12 Node	805.00	343.00
DS3 or STS1 at OC48 Node	805.00	343.00
DS3 or STS1 at OC192 Node	805.00	343.00
DS3 Transmux at OC3 Node*	805.00 805.00	343.00 210.00
DS3 Transmux at OC12 Node	805.00 805.00	343.00 210.00
DS3 Transmux at OC48 Node	805.00 805.00	343.00 210.00
DS3 Transmux at OC192 Node	805.00 805.00	343.00 210.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

**20. Ethernet Private Line (Cont'd)
Dedicated SONET Ring (DSR) #(Cont'd)****20.2**Rates & Charges (Cont'd)

K)

Ports – Nonrecurring Charges (Cont'd)

(4)

Initial Installation Charges: Month-to-Month ports only (Cont'd)

(a)

(Jurisdiction: All Jurisdictions)

<u>Port Type</u>	<u>First</u>	<u>Additional</u>
OC3 at OC12 Node	\$805.00	\$343.00
OC3 at OC48 Node	805.00	343.00
OC3 at OC192 Node	805.00	343.00
OC3c at OC12 Node	805.00	343.00
OC3c at OC48 Node	805.00	343.00
OC3c at OC192 Node	805.00	343.00
OC12 at OC48 Node	767.00	327.00
OC12 at OC192 Node	767.00	327.00
OC12c at OC48 Node	767.00	327.00
OC12c at OC192 Node	767.00	327.00
OC48 at OC192 Node	767.00	327.00
OC48c at OC192 Node	767.00	327.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)
- 20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)
- (K) **Rates & Charges** (Cont'd)
- (4) Ports – Nonrecurring Charges (Cont'd)
- (a) Initial Installation Charges: Month-to-Month ports only (Cont'd)
(Jurisdiction: All Jurisdictions)

<u>Port Type</u>	<u>I</u>	<u>First</u>	<u>Additional</u>
Gigabit Ethernet*			
GigE1 at OC3 Node		\$767.00	\$327.00
GigE1 at OC12 Node		767.00	327.00
GigE1 at OC48 Node		767.00	327.00
GigE1 at OC192 Node		767.00	327.00
GigE3 at OC12 Node		767.00	327.00
GigE3 at OC48 Node		767.00	327.00
GigE3 at OC192 Node		767.00	327.00
GigE6 at OC12 Node		767.00	327.00
GigE6 at OC48 Node		767.00	327.00
GigE6 at OC192 Node		767.00	327.00
GigE9 at OC12 Node		767.00	327.00
GigE9 at OC48 Node		767.00	327.00
GigE9 at OC192 Node		767.00	327.00
GigE12 at OC48 Node		767.00	327.00
GigE12 at OC192 Node		767.00	327.00
GigE24 at OC48 Node		767.00	327.00
GigE24 at OC192 Node		767.00	327.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)20.2 Dedicated SONET Ring (DSR) #(Cont'd)(K) Rates & Charges (Cont'd)

- (5) Partial Ring Pass-Through interface, per Interface
-
- (Jurisdiction: All Jurisdictions)

		<u>Monthly Rate</u>
3-Year Term		
OC3		\$1,330.00
OC12		2,900.00
OC48		4,800.00
OC192		10,000.00
5-Year Term		
OC3		\$1,290.00
OC12		2,700.00
OC48		4,604.00
OC192		9,200.00
7-Year Term		
OC3		\$1,186.00
OC12		2,430.00
OC48		4,143.00
OC192		8,280.00

- (6) Partial Ring Channel Mapping,
-
- per channel mapped on a partial ring

<u>Channel Type</u>	<u>Nonrecurring Charge</u>
DS1	\$150.00
DS3 or STS1	150.00
OC3	150.00
OC3c	150.00
OC12	150.00
OC12c	150.00
OC48	150.00
OC48c	150.00
GigE1	150.00
GigE3	150.00
GigE6	150.00
GigE9	150.00
GigE12	150.00
GigE24	150.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)(K) Rates and Charges (Cont'd)(7) Optional Features(a) Customer Service Management Optional Feature

(1) Service Level, per ring

<u>Service Level</u>	<u>Monthly Rate</u>
Level 1: Network View only	
3-Year	\$250.00
5-Year	250.00
7-Year	250.00
Level 2: Network View and Basic Reports	
3-Year	\$450.00
5-Year	450.00
7-Year	450.00
Level 3: Network View, Basic Reports and Reconfiguration	
3-Year	\$850.00
5-Year	850.00
7-Year	850.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)(K) Rates and Charges (Cont'd)(7) Optional Features (Cont'd)(a) Customer Service Management Optional Feature (Cont'd)

(2) Preplanned Port, per port

(Rates and Charges are the same as those set forth in 20.2(K)(4) preceding)

	<u>Nonrecurring Charge</u>
(3) Node Setup, per node on the ring equipped during initial establishment	\$200.00
(4) Initial CSM Setup, first partition with up to 6 users	\$500.00
(5) Setup of additional Partition or change in CSM Service Level, each	\$500.00
(6) Setup of Additional Users, up to 6 additional users	\$350.00
(7) Add/remove Node, per node added to, or removed from, the CSM ring	\$200.00
(8) Telephone Company performed Reconfiguration, per mapping	\$300.00
(9) Consultation and support, each 30 minutes or fraction thereof	\$100.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.2 Dedicated SONET Ring (DSR) #(Cont'd)****(K) Rates and Charges (Cont'd)****(8) Asymmetrical Port Facility (APF)****(a) Monthly Rates, per APF****(1) Month to Month Billing**

<u>APF Type</u>	<u>Monthly Rate</u>
OC3 APF	
- OC3 Mileage, per mile	\$ 500.00
- OC3 Channel Extension, each	3,800.00
OC12 APF	
- OC12 Mileage, per mile	1,000.00
- OC12 Channel Extension, each	7,000.00
OC48 APF	
- OC48 Mileage, per mile	3,500.00
- OC48 Channel Extension, each	11,000.00

(2) Term Plan Billing

<u>APF Type</u>	<u>Monthly Rate 3-Year Term</u>
OC3 APF	
- OC3 Mileage, per mile	\$ 375.00
- OC3 Channel Extension, each	2,850.00
OC12 APF	
- OC12 Mileage, per mile	750.00
- OC12 Channel Extension, each	5,500.00
OC48 APF	
- OC48 Mileage, per mile	2,625.00
- OC48 Channel Extension, each	7,500.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)
- 20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)
- (K) **Rates and Charges** (Cont'd)
- (8) Asymmetrical Port Facility (APF) (Cont'd)
- (a) Monthly Rates, per APF (Cont'd)
- (2) Term Plan Billing (Cont'd)

<u>APF Type</u>	<u>Monthly Rate 5-Year Term</u>
OC3 APF	
- OC3 Mileage, per mile	\$ 337.50
- OC3 Channel Extension, each	2,565.00
OC12 APF	
- OC12 Mileage, per mile	675.00
- OC12 Channel Extension, each	4,500.00
OC48 APF	
- OC48 Mileage, per mile	2,362.50
- OC48 Channel Extension, each	6,350.00
	<u>Monthly Rate 7-Year Term</u>
<u>APF Type</u>	
OC3 APF	
- OC3 Mileage, per mile	\$ 303.75
- OC3 Channel Extension, each	2,308.50
OC12 APF	
- OC12 Mileage, per mile	607.50
- OC12 Channel Extension, each	4,050.00
OC48 APF	
- OC48 Mileage, per mile	2,126.25
- OC48 Channel Extension, each	5,715.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)
- 20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)
- (K) Rates and Charges (Cont'd)
- (8) Asymmetrical Port Facility (APF) (Cont'd)
- (b) Nonrecurring Charges
- (1) APF Mapping Charge,
 - per lower capacity channel mapped
 between two APFs on the same DSR

<u>Channel Type</u>	<u>Nonrecurring Charge</u>
All Channel Types	\$ 500.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE**20. Ethernet Private Line (Cont'd)****20.2 Dedicated SONET Ring (DSR) # (Cont'd)****(K) Rates and Charges (Cont'd)**

- (9) Subtending Node Facility (SNF)
- (a) Monthly Rates, per SNF extended
- (1) Term Plan Billing

<u>SNF Type</u>	<u>3-Year Term</u>	Monthly Rate
OC3 SNF		
- OC3 Mileage, per mile		\$ 375.00
- OC3 Channel Extension, each		2,850.00
OC12 SNF		
- OC12 Mileage, per mile		750.00
- OC12 Channel Extension, each		5,500.00
OC48 SNF		
- OC48 Mileage, per mile		2,625.00
- OC48 Channel Extension, each		7,500.00
<u>SNF Type</u>	<u>5-Year Term</u>	Monthly Rate
OC3 SNF		
- OC3 Mileage, per mile		\$ 337.50
- OC3 Channel Extension, each		2,565.00
OC12 SNF		
- OC12 Mileage, per mile		675.00
- OC12 Channel Extension, each		4,500.00
OC48 SNF		
- OC48 Mileage, per mile		2,362.50
- OC48 Channel Extension, each		6,350.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)20.2 **Dedicated SONET Ring (DSR) #** (Cont'd)(K) **Rates and Charges** (Cont'd)

(9) Subtending Node Facility (SNF) (Cont'd)

(a) Monthly Rates, per SNF extended (Cont'd)

(1) Term Plan Billing (Cont'd)

<u>SNF Type</u>	<u>Monthly Rate 7-Year Term</u>
OC3 SNF	
- OC3 Mileage, per mile	\$ 303.75
- OC3 Channel Extension, each	2,308.50
OC12 SNF	
- OC12 Mileage, per mile	607.50
- OC12 Channel Extension, each	4,050.00
OC48 SNF	
- OC48 Mileage, per mile	2,126.25
- OC48 Channel Extension, each	5,715.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)(K) **Rates & Charges** (Cont'd)

(9) Subtending Node Facility (SNF) (Cont'd)

(b) Monthly Rates, per port node

<u>Port Node Type</u>	<u>Monthly Rate 3-Year Rate</u>
OC3 at OC3 Node	\$ 600.00
OC3 at OC12 Node	600.00
OC3 at OC48 Node	600.00
OC3 at OC192 Node	600.00
OC12 at OC12 Node	850.00
OC12 at OC48 Node	850.00
OC12 at OC192 Node	850.00
OC48 at OC48 Node	1,800.00
OC48 at OC192 Node	1,800.00
OC192 at OC192 Node	4,500.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE20. **Ethernet Private Line** (Cont'd)20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)(K) **Rates & Charges** (Cont'd)

(9) Subtending Node Facility (SNF) (Cont'd)

(b) Monthly Rates, per port node (Cont'd)

<u>Port Node Type</u>	<u>Monthly Rate 5-Year Rate</u>
OC3 at OC3 Node	\$ 500.00
OC3 at OC12 Node	500.00
OC3 at OC48 Node	500.00
OC3 at OC192 Node	500.00
OC12 at OC12 Node	750.00
OC12 at OC48 Node	750.00
OC12 at OC192 Node	750.00
OC48 at OC48 Node	1,600.00
OC48 at OC192 Node	1,600.00
OC192 at OC192 Node	3,800.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)
- 20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)
- (K) Rates & Charges (Cont'd)
- (9) Subtending Node Facility (SNF) (Cont'd)
- (b) Monthly Rates, per port node (Cont'd)

<u>Port Node Type</u>	<u>Monthly Rate</u> <u>7-Year Rate</u>
OC3 at OC3 Node	\$ 450.00
OC3 at OC12 Node	450.00
OC3 at OC48 Node	450.00
OC3 at OC192 Node	450.00
OC12 at OC12 Node	700.00
OC12 at OC48 Node	700.00
OC12 at OC192 Node	700.00
OC48 at OC48 Node	1,500.00
OC48 at OC192 Node	1,500.00
OC192 at OC192 Node	3,000.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

- 20. **Ethernet Private Line** (Cont'd)
- 20.2 **Dedicated SONET Ring (DSR) #**(Cont'd)
- (K) **Rates & Charges** (Cont'd)
- (10) Dual Node Cross-Connect Charge,
- per lower capacity channel provided
through two interconnecting nodes in a
subtending ring arrangement

<u>Channel Type</u>	<u>Nonrecurring Charge</u>
All Channel Types	\$500.00

Service availability limited. Refer to # footnote on Page 20-128.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.3 Ethernet Private Line#****(A) General**

- (1) Ethernet Private Line service provides managed optical transport of data signals of various speeds over the Telephone Company's shared network. Ethernet Private Line architecture allows for point-to-point transmissions of varying bandwidths between customer designated locations.
- (2) Ethernet Private Line is provided where Telephone Company fiber optic facilities and equipment with sufficient bandwidth capacity permit.

(B) Service Description

- (1) Ethernet Private Line service consists of 3 components, an On-Net Channel Extension, On-Net Channel Mileage, and an Access Aggregation Port.
 - (a) **On-Net Channel Extension** provides the communications path and interface termination from a customer's location to the serving wire center. The On-Net Channel Extension utilizes a Telephone Company optical network element at the customer-designated location.
 - (b) **On-Net Channel Mileage** provides transport between two telephone company Serving Wire Centers (SWCs). On-Net Channel Mileage is measured in airline miles between the SWCs involved.
 - (c) **Access Aggregation Ports** support multiple Ethernet signal(s) that are mapped into SONET at one end of the channel.
- (2) Ethernet Private Line Channel Extensions may be available as protected or unprotected.
 - (a) For protected services, the Telephone Company will provision the service over diversely routed, self-healing architecture. Protected services allow for a near 100% availability and restoration in the event of a network failure.
 - (b) For unprotected services, the Telephone Company does not guarantee the service will be provisioned over diversely routed facilities.

Effective March 30, 2007, orders for new Ethernet Private Line are no longer permitted. The Telephone Company will continue to provide Ethernet Private Line pursuant to this Section 20.3 on any existing Ethernet Private Line that is in-service as of March 30, 2007, or any order for Ethernet Private Line that is placed with the Telephone Company prior to March 29, 2007 (collectively, Existing Ethernet Private Line), subject to the following conditions:

- a. For any Existing Ethernet Private Line that is currently subscribed to a term plan (i.e., commitment periods of 1-, 3-, 5-, and 7-years), the Telephone Company will continue to provide the Existing Ethernet Private Line for an additional six (6) months beyond the expiration date of the customer's current commitment period, or until the customer replaces the Existing Ethernet Private Line with a comparable Telephone Company provided service, or discontinues service, whichever comes first. Effective March 30, 2007, moves, additions, and/or changes are not permitted.
- b. For any Existing Ethernet Private Line whose term plan expired prior to March 30, 2007, but the Existing Ethernet Private Line continued on a month-to-month basis at prevailing rates, the Telephone Company will continue to provide the Existing Ethernet Private Line until September 30, 2007, or until the customer replaces the Existing Ethernet Private Line with a comparable Telephone Company provided service, or discontinues service, whichever comes first. Effective March 30, 2007, moves, additions, and/or changes are not permitted.

ACCESS SERVICE**20. Ethernet Private Line (Cont'd)****20.3 Ethernet Private Line # (Cont'd)****(B) Service Description (Cont'd)**

- (3) The On-Net Aggregation Port will only be permitted at a customer premises location.
- (a) This port must utilize a SONET interface (i.e., OC3, OC12, OC48) at the customer demarcation point. A Ethernet Private Line Aggregation Port can only reside at one end of a Ethernet Private Line circuit. The end of a Ethernet Private Line circuit that is not assigned to a Ethernet Private Line Access Aggregation Port must have a native Ethernet hand-off.
- (4) Channel Interfaces

<u>SONET Mapped Interface</u>	<u>SONET Mappings & Ports</u>	
	<u>STS1s</u>	<u>Aggregation Port</u>
100 Mbps Ethernet (50Mb) Mapped to STS1	1 - STS1	OC3, OC12, OC48
100 Mbps Ethernet (Full Rate) Mapped to OC3c	3 - STS1s	OC12, OC48
1 Gbps Ethernet (50Mb) Mapped to OC3	1 - STS1	OC3, OC12, OC48
1 Gbps Ethernet (150Mb) Mapped to OC3	3 - STS1s	OC12, OC48
1 Gbps Ethernet (300Mb) Mapped to OC12	6 - STS1s	OC12, OC48
1 Gbps Ethernet (450Mb) Mapped to OC12	9 - STS1s	OC12, OC48
1 Gbps Ethernet (600Mb) Mapped to OC12	12 - STS1s	OC48
1 Gbps Ethernet (Full Rate) Mapped to OC48	21 - STS1s	OC48
1 Gbps Fibre Channel (Full Rate) Mapped to OC48	19 - STS1s	OC48
1 Gbps FICON (Full Rate) Mapped to OC48	19 - STS1s	OC48
<u>Aggregation Ports</u>	<u>Total STS1s</u>	
OC3 Port - Supports Up to 3 Total Mapped STS1s	3 - Total STS1s	N/A
OC12 Port - Supports Up to 12 Mapped STS1s	12 - Total STS1s	N/A
OC48 Port - Supports Up to 48 Mapped STS1s	48 - Total STS1s	N/A

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE

20. **Ethernet Private Line** (Cont'd)

20.3 **Ethernet Private Line #** (Cont'd)

(B) **Service Description** (Cont'd)

(5) Ethernet Private Line service transmissions are provided in the following protocols/data interfaces:

- Ethernet: transmits Ethernet at 10 Mbps
- Fast Ethernet: transmits at 100 Mbps
- Gigabit Ethernet: transmits at 1 Gbps.
- Gigabit Fibre Channel: transmits at 1 Gbps.
- Gigabit FICON: transmits at 1 Gbps.
- Ethernet mapped to STS1
- Fast Ethernet Mapped to STS1
- Fast Ethernet Mapped to OC3c
- Gigabit Ethernet Mapped to OC3
- Gigabit Ethernet Mapped to OC12
- Gigabit Ethernet Mapped to OC12c
- Gigabit Ethernet Mapped to OC48
- Gigabit Fibre Channel Mapped to OC48
- Gigabit FICON Mapped to OC48
- Ethernet Private Line Services Mapped to OC3 Access Aggregation Port
- Ethernet Private Line Services Mapped to OC12 Access Aggregation Port
- Ethernet Private Line Services Mapped to OC48 Access Aggregation Port

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.3 Ethernet Private Line #(Cont'd)****(B) Service Description (Cont'd)**

- (6) Ethernet Private Line services may connect to other Telephone Company services capable of transmitting the specified protocol.
- (a) A Ethernet Private Line Ethernet to SONET mapped service may be multiplexed onto an Express Connect of a higher bit rate or a Flex Express Connect of a higher bit rate.
- (b) A Ethernet Private Line Ethernet to SONET mapped service may connect to an equal speed Custom Connect Rider at a Single Route CDL, Diverse Route CDL, or a CO Node. When connecting to Custom Connect services a CDL Link or Rider as set forth in Section 20(D)(j) preceding will apply. Ethernet Private Line services cannot terminate on a customer provided node of a connecting service.
- (c) A Ethernet Private Line Ethernet mapped to STS1; Fast Ethernet mapped to STS1 and/or OC3c; Gigabit Ethernet mapped to OC3, OC12, OC12c and/or OC48 service may be multiplexed onto a port on a higher speed node of a Dedicated SONET Ring (DSR) service for transport over the higher bit rate DSR.
- (d) An Ethernet Private Line Gigabit Ethernet service may be multiplexed onto a port of a higher speed node of a Dedicated SONET Ring (DSR) service for transport over the higher bit rate DSR at an equivalent speed GigE.
- (e) An Ethernet Private Line Fast Ethernet mapped to OC3c and/or Gigabit Ethernet mapped to OC12c service may connect to an equal speed Optical Transport Channel of a Dedicated SONET Optical Transport Service (DSOTS)ring at a node on the DSOTS ring.
- (f) An Ethernet Private Line Gigabit Ethernet Full Rate may connect to Gigabit Ethernet Optical Transport Channel of a Dedicated SONET Optical Transport Service (DSOTS)at a node on the DSOTS ring.
- (g) An Ethernet Private Line Gigabit Fibre Channel and/or Gigabit FICON service may be connected to a Gigabit Fibre Channel and/or Gigabit FICON Optical Transport Channel on a Dedicated SONET Optical Transport Service (DSOTS)ring at a node on the DSOTS ring.
- (h) Ethernet Private Line may also be connected to the following Telephone Company provided services, where such connections are technically and operationally feasible, as determined by the Telephone Company.
- dedicated SONET ring service
 - point-to-point SONET service
 - DWDM ring service
 - SONET entrance facility service

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.3 Ethernet Private Line #(Cont'd)****(C) Technical Specifications**

The technical specifications for the protocols transmitted over Ethernet Private Line are delineated in the following Technical References:

<u>Protocol</u>	<u>Technical Reference</u>
SONET	GR-253-CORE, Issue 4
10 Mbps Ethernet	IEEE 802.3-2005/Cor2/D2.0-2007
100 Mbps Fast Ethernet	IEEE 802.3u-1995
1 Gbps Ethernet	IEEE 802.3z-1998
1 Gbps Fibre Channel	ANSI INCITS 303-1998 (R2003)
1 Gbps FICON	ANSI INCITS 296-1997 (R2007)

(D) Terms and Conditions

- (1) A planning session is required prior to the submission of an order for Ethernet Private Line. Ethernet Private Line is available based on negotiated intervals as described in Section 5.1.7 preceding.
- (2) Where distance limitations affect the Telephone Company's ability to engineer end-to-end transport of some protocols, the Telephone Company will notify the customer that it cannot provide the requested service.
- (3) All signals generated by the customer's equipment (CPE/customer provided equipment) must meet industry standards and specifications. See (C) of this section preceding.
- (4) The customer is responsible to ensure that its equipment meets any applicable technical requirements or limitations for the protocol being transmitted.
- (5) The customer is responsible for any error detection and error correction of the data generated by its equipment.
- (6) The Telephone company assumes no responsibility for the quality of the signal generated by CPE and will deliver the signal in the format provided by the customer.

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.3 Ethernet Private Line #(Cont'd)****(D) Terms and Conditions (Cont'd)**

- (7) When requested by the customer, one or more Ethernet Private Line Ethernet, Fast Ethernet, Gigabit Ethernet, Gigabit Fibre Channel, and/or FICON signal(s) may be mapped into a SONET signal. The options for mapping a single signal are:

- 10 Mbps Ethernet to STS1
- 100 Mbps Fast Ethernet to STS1, OC3c
- 1 Gbps Gigabit Ethernet to OC3, OC12, OC12c, OC48
- 1 Gbps Gigabit Fibre Channel to OC48
- 1 Gbps Gigabit FICON to OC48

The options for mapping multiple signals are:

- 10 Mbps Ethernet to OC3, OC12, OC48
- 100 Mbps Fast Ethernet to OC3, OC12, OC48
- 1 Gbps Gigabit Ethernet to OC3, OC12, OC48
- 1 Gbps Gigabit Fibre Channel to OC48
- 1 Gbps Gigabit FICON to OC48

Only one end of an Ethernet Private Line channel may be Ethernet-to-SONET mapped. Mapping of multiple signals requires placement of an Ethernet Private Line Access Aggregation Port as described in (B)(1) preceding.

- (8) Where facilities, conditions, and/or sufficient bandwidth capacity permit, the Telephone Company, upon customer request, may provide a diverse fiber path between the customer designated location and its Serving Wire Center. Rates and charges may apply as specified in the Special Construction tariff.

(E) Rate Regulations

- (1) Ethernet Private Line is available for 1, 3, 5, and 7-year commitment periods/term plans.
- (2) The minimum service period for Ethernet Private Line is one year.
- (3) Upon expiration of a commitment period, the customer may choose to continue service under a new commitment period or cancel service. If the customer does not choose one of these options, the Telephone Company will continue the service at the monthly rate for the original commitment period.

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Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)

20.3 Ethernet Private Line# (Cont'd)

(E) Rate Regulations (Cont'd)

- (4) The customer has the option, within sixty (60) days prior to the expiration date for its commitment period, to extend its expiring Plan to a longer commitment period, for which time-in-service credit will be allowed for the expiring plan. The commitment period selected for the extended plan must be longer than the commitment period of the expiring plan, e.g., an expiring 1-Year Term may be extended to either a 3-Year, 5-Year, or 7-Year Commitment period. Time-in-service credit lessens the actual time commitment for the extended plan. For example, Time in Service Credit for an expiring 3-Year term plan applied toward a new 7-year plan equals a new commitment period of 4 years at the 7-year plan rate. The rate for the longer commitment period will apply effective with the first bill day following expiration of the commitment period for the existing plan and continue through the remainder of the commitment period associated with the extended plan. No adjustment for the increased discount associated with the extended plan will be made to the monthly rates already billed on the expiring plan.
- (5) A change in protocol of an On-Net Channel Extension is treated as a discontinuance of service and an installation of both, a new On-Net Channel Extension and the appropriate On-Net Channel Mileage, and will result in Termination Liability Charges applied for the discontinuance of the existing service.
- (6) Monthly recurring charges (MRCs) apply for On-Net Channel Extensions, On-Net Channel Mileage, and Access Aggregation Ports.
- (7) The MRC for the Channel Extension applies per channel extension and at the specified term plan rate. The On-Net Channel Extension charge is also dependent on the type of facility interface provided.
- (8) The MRC for the Channel Mileage applies on a fixed and on a per mile basis for the airline miles between the Serving Wire Centers. The fixed portion of Channel Mileage is applied at each termination of the interoffice portion of the circuit. When the mileage calculation results in a fraction of a mile, it is rounded up to the next whole mile.

Service availability limited. Refer to # footnote on Page 20-192.

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20. Ethernet Private Line (Cont'd)
- 20.3 Ethernet Private Line # (Cont'd)
- (E) Rate Regulations (Cont'd)
- (9) The MRC for the Access Aggregation Port applies per port and at the specified term plan rate. The Access Aggregation Port charge is also dependent on the type of facility interface provided.
- (10) Nonrecurring charges (apply for the initial installation of On-Net Channel Extensions, On-Net Channel Mileage, and Access Aggregation Ports.
- (11) When connecting Ethernet Private Line services to other Telephone Company provided services, the rates and charges, and terms and conditions of the connecting services also apply.

Service availability limited. Refer to # footnote on Page 20-192.

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20. Ethernet Private Line (Cont'd)**20.3 Ethernet Private Line #(Cont'd)****(F) Termination Liability**

- (1) Cancellation charges as set forth in Section 5.3.2 preceding apply if an ASR for Ethernet Private Line is cancelled.
- (2) The MRCs and for Ethernet Private Line are listed in (H) following.
- (3) Termination liability applies to On-Net Channel Mileage, On-Net Channel Extension and Access Aggregation Port service components and applies when either is disconnected prior to expiration of the commitment period, i.e., term plan.
- (4) The termination liability charge is equal to 25% of the remaining monthly charges for the balance of the commitment period beginning with the date of disconnection or cancellation, and ending with the expiration date of the commitment period.
- (5) Termination liability applies in addition to any charges associated with satisfying the minimum period obligation.
- (6) When the service includes connection to another service, termination liability for the connecting service also applies in accordance with the regulations specified for that connecting service.
- (7) Termination liability will not apply to the existing service when; (1) an Ethernet Private Line Ethernet service is upgraded to a higher bit rate Ethernet Private Line Ethernet service (e.g., an Ethernet Private Line Ethernet 10 Mbps service is changed to a Ethernet Private Line Ethernet 100 Mbps service or to a Ethernet Private Line Ethernet 1 Gbps service), and (2), the new term is equal to or of greater length than the term for the terminating service.
- (8) Termination liability will not apply to the existing service when a Ethernet Private Line Ethernet service is rearranged to enable interconnection with an Enhanced Central Office Node on a Dedicated SONET Ring (DSR) as specified in 20.2, preceding, provided that (1) the rearrangement occurs at the same time as the DSR is being established, (2) a new commitment period is established for the Ethernet Private Line Ethernet service that matches the commitment period of the DSR, and (3) the change does not result in a change of either of the end points of the circuit.
- (9) Termination liability will not apply if a customer changes its term plan to a longer commitment period as explained in (E) preceding.
- (10) Termination liability will not apply to the existing service when; (1) a Ethernet Private Line Ethernet service is upgraded to a higher bit rate Ethernet Private Line Ethernet service (e.g., a Ethernet Private Line Ethernet 10 Mbps service is changed to a Ethernet Private Line Ethernet 100 Mbps service or to a Ethernet Private Line Ethernet 1 Gbps service), and (2) the new term is equal to or of greater length than the term for the terminating service.

Service availability limited. Refer to # footnote on Page 20-192.

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20. **Ethernet Private Line** (Cont'd)20.3 **Ethernet Private Line #** (Cont'd)(G) **Channel Interfaces**

The channel interfaces for Ethernet Private Line are as follows.

<u>Cls</u>	<u>Cls</u>	<u>Cls</u>
04LN9.04LN9.10T		
02LNF.A07	02LNF.A02	02LNF.A04
02SOF.F	02SOF.B	02SOF.X
04SOF.F	04SOF.B	02SOF.D
04SOF.X	04SOF.D	02OPF.A02
02OPF.A04	02OPF.A07	04CMF.C3
04CMF.C12	04CMF.C48	

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE**20. Ethernet Private Line (Cont'd)****20.3 Ethernet Private Line # (Cont'd)****(H) Rates and Charges**

(1) On-Net Channel Extensions, per channel extension

(a) Protected Channel Extensions(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)

(1) 1-year Commitment Period/Term Plan

<u>Interface Type</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
10 Mbps Ethernet (Full Rate)	\$1,200.00	\$1.00
100 Mbps Ethernet (50 Mbps)*	1,920.00	1.00
100 Mbps Ethernet (Full Rate)	2,630.00	1.00
1 Gbps Ethernet (50 Mbps)*	1,920.00	1.00
1 Gbps Ethernet (150 Mbps)*	2,790.00	1.00
1 Gbps Ethernet (300 Mbps)*	3,660.00	1.00
1 Gbps Ethernet (450 Mbps)*	4,530.00	1.00
1 Gbps Ethernet (600 Mbps)	5,400.00	1.00
1 Gbps Ethernet (Full Rate)*	7,560.00	1.00
1 Gbps Fibre Channel (Full Rate)*	8,320.00	1.00
1 Gbps FICON (Full Rate)*	8,320.00	1.00
<u>(Mapped to SONET at one end)</u>		
10 Mbps Ethernet (Full Rate) to STS1	1,200.00	1.00
100 Mbps Ethernet (50 Mbps) to STS1*	1,920.00	1.00
100 Mbps Ethernet (Full Rate) to OC3c	2,630.00	1.00
1 Gbps Ethernet (50 Mbps) to OC3*	1,920.00	1.00
1 Gbps Ethernet (150 Mbps) to OC3*	2,790.00	1.00
1 Gbps Ethernet (300 Mbps) to OC12*	3,660.00	1.00
1 Gbps Ethernet (450 Mbps) to OC12*	4,530.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12*	5,400.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12c	5,400.00	1.00
1 Gbps Ethernet (Full Rate) to OC48*	7,560.00	1.00
1 Gbps Fibre Channel (Full Rate) to OC48*	8,320.00	1.00
1 Gbps FICON (Full Rate) to OC48*	8,320.00	1.00

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE**20. Ethernet Private Line** (Cont'd)**20.3 Ethernet Private Line #**(Cont'd)(H) **Rates and Charges** (Cont'd)

(1) On-Net Channel Extensions, per channel extension (Cont'd)

(a) **Protected** Channel Extensions (Cont'd)(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)

(2) 3-year Commitment Period/Term Plan

<u>Interface Type</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
10 Mbps Ethernet (Full Rate)	\$ 900.00	\$1.00
100 Mbps Ethernet (50 Mbps)*	1,470.00	1.00
100 Mbps Ethernet (Full Rate)	2,030.00	1.00
1 Gbps Ethernet (50 Mbps)*	1,470.00	1.00
1 Gbps Ethernet (150 Mbps)*	2,310.00	1.00
1 Gbps Ethernet (300 Mbps)*	3,140.00	1.00
1 Gbps Ethernet (450 Mbps)*	3,970.00	1.00
1 Gbps Ethernet (600 Mbps)	4,800.00	1.00
1 Gbps Ethernet (Full Rate)*	6,720.00	1.00
1 Gbps Fibre Channel (Full Rate)*	7,400.00	1.00
1 Gbps FICON (Full Rate)*	7,400.00	1.00
<u>(Mapped to SONET at one end)</u>		
10 Mbps Ethernet (Full Rate) to STS1	900.00	1.00
100 Mbps Ethernet (50 Mbps) to STS1*	1,470.00	1.00
100 Mbps Ethernet (Full Rate) to OC3c	2,030.00	1.00
1 Gbps Ethernet (50 Mbps) to OC3*	1,470.00	1.00
1 Gbps Ethernet (150 Mbps) to OC3*	2,310.00	1.00
1 Gbps Ethernet (300 Mbps) to OC12*	3,140.00	1.00
1 Gbps Ethernet (450 Mbps) to OC12*	3,970.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12	4,800.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12c	4,800.00	1.00
1 Gbps Ethernet (Full Rate) to OC48*	6,720.00	1.00
1 Gbps Fibre Channel (Full Rate) to OC48*	7,400.00	1.00
1 Gbps FICON (Full Rate) to OC48*	7,400.00	1.00

Service availability limited. Refer to # footnote on Page 20-192.

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20. Ethernet Private Line (Cont'd)**20.3 Ethernet Private Line #** (Cont'd)(H) **Rates and Charges** (Cont'd)

(1) On-Net Channel Extensions, per channel extension (Cont'd)

(a) **Protected** Channel Extensions (Cont'd)(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)

(3) 5-year Commitment Period/Term Plan

<u>Interface Type</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
10 Mbps Ethernet (Full Rate)	\$ 720.00	\$1.00
100 Mbps Ethernet (50 Mbps)	1,200.00	1.00
100 Mbps Ethernet (Full Rate)	1,680.00	1.00
1 Gbps Ethernet (50 Mbps)	1,200.00	1.00
1 Gbps Ethernet (150 Mbps)	2,000.00	1.00
1 Gbps Ethernet (300 Mbps)	2,790.00	1.00
1 Gbps Ethernet (450 Mbps)	3,590.00	1.00
1 Gbps Ethernet (600 Mbps)	4,380.00	1.00
1 Gbps Ethernet (Full Rate)	6,140.00	1.00
1 Gbps Fibre Channel (Full Rate)	6,760.00	1.00
1 Gbps FICON (Full Rate)	6,760.00	1.00
<u>(Mapped to SONET at one end)</u>		
10 Mbps Ethernet (Full Rate) to STS1	720.00	1.00
100 Mbps Ethernet (50 Mbps) to STS1	1,200.00	1.00
100 Mbps Ethernet (Full Rate) to OC3c	1,680.00	1.00
1 Gbps Ethernet (50 Mbps) to OC3	1,200.00	1.00
1 Gbps Ethernet (150 Mbps) to OC3	2,000.00	1.00
1 Gbps Ethernet (300 Mbps) to OC12	2,790.00	1.00
1 Gbps Ethernet (450 Mbps) to OC12	3,590.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12	4,380.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12c	4,380.00	1.00
1 Gbps Ethernet (Full Rate) to OC48	6,140.00	1.00
1 Gbps Fibre Channel (Full Rate) to OC48	6,760.00	1.00
1 Gbps FICON (Full Rate) to OC48	6,760.00	1.00

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE**20. Ethernet Private Line** (Cont'd)**20.3 Ethernet Private Line #**(Cont'd)(H) **Rates and Charges** (Cont'd)

(1) On-Net Channel Extensions, per channel extension (Cont'd)

(a) **Protected** Channel Extensions (Cont'd)(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)

(4) 7-year Commitment Period/Term Plan

<u>Interface Type</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
10 Mbps Ethernet (Full Rate)	\$ 600.00	\$1.00
100 Mbps Ethernet (50 Mbps)*	1,020.00	1.00
100 Mbps Ethernet (Full Rate)	1,430.00	1.00
1 Gbps Ethernet (50 Mbps)*	1,020.00	1.00
1 Gbps Ethernet (150 Mbps)*	1,840.00	1.00
1 Gbps Ethernet (300 Mbps)*	2,660.00	1.00
1 Gbps Ethernet (450 Mbps)*	3,480.00	1.00
1 Gbps Ethernet (600 Mbps)	4,300.00	1.00
1 Gbps Ethernet (Full Rate)*	6,020.00	1.00
1 Gbps Fibre Channel (Full Rate)*	6,630.00	1.00
1 Gbps FICON (Full Rate)*	6,630.00	1.00
<u>(Mapped to SONET at one end)</u>		
10 Mbps Ethernet (Full Rate) to STS1	600.00	1.00
100 Mbps Ethernet (50 Mbps) to STS1*	1,020.00	1.00
100 Mbps Ethernet (Full Rate) to OC3c	1,430.00	1.00
1 Gbps Ethernet (50 Mbps) to OC3*	1,020.00	1.00
1 Gbps Ethernet (150 Mbps) to OC3*	1,840.00	1.00
1 Gbps Ethernet (300 Mbps) to OC12*	2,660.00	1.00
1 Gbps Ethernet (450 Mbps) to OC12*	3,480.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12*	4,300.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12c	4,300.00	1.00
1 Gbps Ethernet (Full Rate) to OC48*	6,020.00	1.00
1 Gbps Fibre Channel (Full Rate) to OC48*	6,630.00	1.00
1 Gbps FICON (Full Rate) to OC48*	6,630.00	1.00

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE**20. Ethernet Private Line** (Cont'd)**20.3 Ethernet Private Line #**(Cont'd)(H) Rates and Charges

(1) On-Net Channel Extensions, per channel extension

(b) **Unprotected** Channel Extensions(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)

(1) 1-year Commitment Period/Term Plan

<u>Interface Type</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
10 Mbps Ethernet (Full Rate)	\$ 900.00	\$1.00
100 Mbps Ethernet (50 Mbps)*	1,470.00	1.00
100 Mbps Ethernet (Full Rate)	2,030.00	1.00
1 Gbps Ethernet (50 Mbps)*	1,470.00	1.00
1 Gbps Ethernet (150 Mbps)*	2,160.00	1.00
1 Gbps Ethernet (300 Mbps)*	2,840.00	1.00
1 Gbps Ethernet (450 Mbps)*	3,520.00	1.00
1 Gbps Ethernet (600 Mbps)	4,200.00	1.00
1 Gbps Ethernet (Full Rate)*	5,880.00	1.00
1 Gbps Fibre Channel (Full Rate)*	6,470.00	1.00
1 Gbps FICON (Full Rate)*	6,470.00	1.00
<u>(Mapped to SONET at one end)</u>		
10 Mbps Ethernet (Full Rate) to STS1	900.00	1.00
100 Mbps Ethernet (50 Mbps) to STS1*	1,470.00	1.00
100 Mbps Ethernet (Full Rate) to OC3c	2,030.00	1.00
1 Gbps Ethernet (50 Mbps) to OC3*	1,470.00	1.00
1 Gbps Ethernet (150 Mbps) to OC3*	2,160.00	1.00
1 Gbps Ethernet (300 Mbps) to OC12*	2,840.00	1.00
1 Gbps Ethernet (450 Mbps) to OC12*	3,520.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12*	4,200.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12c	4,200.00	1.00
1 Gbps Ethernet (Full Rate) to OC48*	5,880.00	1.00
1 Gbps Fibre Channel (Full Rate) to OC48*	6,470.00	1.00
1 Gbps FICON (Full Rate) to OC48*	6,470.00	1.00

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE**20. Ethernet Private Line** (Cont'd)**20.3 Ethernet Private Line #**(Cont'd)(H) **Rates and Charges** (Cont'd)

(1) On-Net Channel Extensions, per channel extension (Cont'd)

(b) **Unprotected** Channel Extensions (Cont'd)(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)

(2) 3-year Commitment Period/Term Plan

<u>Interface Type</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
10 Mbps Ethernet (Full Rate)	\$ 740.00	\$1.00
100 Mbps Ethernet (50 Mbps)*	1,180.00	1.00
100 Mbps Ethernet (Full Rate)	1,620.00	1.00
1 Gbps Ethernet (50 Mbps)*	1,180.00	1.00
1 Gbps Ethernet (150 Mbps)*	1,840.00	1.00
1 Gbps Ethernet (300 Mbps)*	2,490.00	1.00
1 Gbps Ethernet (450 Mbps)*	3,150.00	1.00
1 Gbps Ethernet (600 Mbps)	3,800.00	1.00
1 Gbps Ethernet (Full Rate)*	5,320.00	1.00
1 Gbps Fibre Channel (Full Rate)*	5,860.00	1.00
1 Gbps FICON (Full Rate)*	5,860.00	1.00
<u>(Mapped to SONET at one end)</u>		
10 Mbps Ethernet (Full Rate) to STS1	740.00	1.00
100 Mbps Ethernet (50 Mbps) to STS1*	1,180.00	1.00
100 Mbps Ethernet (Full Rate) to OC3c	1,620.00	1.00
1 Gbps Ethernet (50 Mbps) to OC3*	1,180.00	1.00
1 Gbps Ethernet (150 Mbps) to OC3*	1,840.00	1.00
1 Gbps Ethernet (300 Mbps) to OC12*	2,490.00	1.00
1 Gbps Ethernet (450 Mbps) to OC12*	3,150.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12*	3,800.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12c	3,800.00	1.00
1 Gbps Ethernet (Full Rate) to OC48*	5,320.00	1.00
1 Gbps Fibre Channel (Full Rate) to OC48*	5,860.00	1.00
1 Gbps FICON (Full Rate) to OC48*	5,860.00	1.00

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE**20. Ethernet Private Line** (Cont'd)**20.3 Ethernet Private Line #**(Cont'd)(H) **Rates and Charges** (Cont'd)

(1) On-Net Channel Extensions, per channel extension (Cont'd)

(b) **Unprotected** Channel Extensions (Cont'd)(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)

(3) 5-year Commitment Period/Term Plan

<u>Interface Type</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
10 Mbps Ethernet (Full Rate)	\$ 590.00	\$1.00
100 Mbps Ethernet (50 Mbps)*	960.00	1.00
100 Mbps Ethernet (Full Rate)	1,320.00	1.00
1 Gbps Ethernet (50 Mbps)*	960.00	1.00
1 Gbps Ethernet (150 Mbps)*	1,600.00	1.00
1 Gbps Ethernet (300 Mbps)*	2,230.00	1.00
1 Gbps Ethernet (450 Mbps)*	2,860.00	1.00
1 Gbps Ethernet (600 Mbps)	3,490.00	1.00
1 Gbps Ethernet (Full Rate)*	4,890.00	1.00
1 Gbps Fibre Channel (Full Rate)*	5,380.00	1.00
1 Gbps FICON (Full Rate)*	5,380.00	1.00
<u>(Mapped to SONET at one end)</u>		
10 Mbps Ethernet (Full Rate) to STS1	590.00	1.00
100 Mbps Ethernet (50 Mbps) to STS1*	960.00	1.00
100 Mbps Ethernet (Full Rate) to OC3c	1,320.00	1.00
1 Gbps Ethernet (50 Mbps) to OC3*	960.00	1.00
1 Gbps Ethernet (150 Mbps) to OC3*	1,600.00	1.00
1 Gbps Ethernet (300 Mbps) to OC12*	2,230.00	1.00
1 Gbps Ethernet (450 Mbps) to OC12*	2,860.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12*	3,490.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12c	3,490.00	1.00
1 Gbps Ethernet (Full Rate) to OC48*	4,890.00	1.00
1 Gbps Fibre Channel (Full Rate) to OC48*	5,380.00	1.00
1 Gbps FICON (Full Rate) to OC48*	5,380.00	1.00

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE**20. Ethernet Private Line** (Cont'd)**20.3 Ethernet Private Line #**(Cont'd)(H) **Rates and Charges** (Cont'd)

(1) On-Net Channel Extensions, per channel extension (Cont'd)

(b) **Unprotected** Channel Extensions (Cont'd)(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)

(4) 7-year Commitment Period/Term Plan

<u>Interface Type</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
10 Mbps Ethernet (Full Rate)	\$ 480.00	\$1.00
100 Mbps Ethernet (50 Mbps)*	790.00	1.00
100 Mbps Ethernet (Full Rate)	1,100.00	1.00
1 Gbps Ethernet (50 Mbps)*	790.00	1.00
1 Gbps Ethernet (150 Mbps)*	1,450.00	1.00
1 Gbps Ethernet (300 Mbps)*	2,100.00	1.00
1 Gbps Ethernet (450 Mbps)*	2,750.00	1.00
1 Gbps Ethernet (600 Mbps)	3,400.00	1.00
1 Gbps Ethernet (Full Rate)*	4,760.00	1.00
1 Gbps Fibre Channel (Full Rate)*	5,240.00	1.00
1 Gbps FICON (Full Rate)*	5,240.00	1.00
<u>(Mapped to SONET at one end)</u>		
10 Mbps Ethernet (Full Rate) to STS1	480.00	1.00
100 Mbps Ethernet (50 Mbps) to STS1*	790.00	1.00
100 Mbps Ethernet (Full Rate) to OC3c	1,100.00	1.00
1 Gbps Ethernet (50 Mbps) to OC3*	790.00	1.00
1 Gbps Ethernet (150 Mbps) to OC3*	1,450.00	1.00
1 Gbps Ethernet (300 Mbps) to OC12*	2,100.00	1.00
1 Gbps Ethernet (450 Mbps) to OC12*	2,750.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12*	3,400.00	1.00
1 Gbps Ethernet (600 Mbps) to OC12c	3,400.00	1.00
1 Gbps Ethernet (Full Rate) to OC48*	4,760.00	1.00
1 Gbps Fibre Channel (Full Rate) to OC48*	5,240.00	1.00
1 Gbps FICON (Full Rate) to OC48*	5,240.00	1.00

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE**20. Ethernet Private Line** (Cont'd)**20.3 Ethernet Private Line #** (Cont'd)(H) **Rates and Charges** (Cont'd)

(2) On-Net Channel Mileage

(a) **Protected** Channel Mileage(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)

(1) 1-year Commitment Period/Term Plan

<u>Interface Type</u>	<u>Monthly Rate</u>	
	<u>Per Mile</u>	<u>Fixed</u>
10 Mbps Ethernet (Full Rate)	\$ 96.00	\$ 180.00
100 Mbps Ethernet (50 Mbps)*	120.00	280.00
100 Mbps Ethernet (Full Rate)	143.00	375.00
1 Gbps Ethernet (50 Mbps)*	120.00	280.00
1 Gbps Ethernet (150 Mbps)*	155.00	410.00
1 Gbps Ethernet (300 Mbps)*	190.00	540.00
1 Gbps Ethernet (450 Mbps)*	225.00	670.00
1 Gbps Ethernet (600 Mbps)	260.00	800.00
1 Gbps Ethernet (Full Rate)*	364.00	1,120.00
1 Gbps Fibre Channel (Full Rate)*	401.00	1,235.00
1 Gbps FICON (Full Rate)*	401.00	1,235.00
<u>(Mapped to SONET at One End)</u>		
10 Mbps Ethernet (Full Rate) to STS1	96.00	180.00
100 Mbps Ethernet (50 Mbps) to STS1*	120.00	280.00
100 Mbps Ethernet (Full Rate) to OC3c	143.00	375.00
1 Gbps Ethernet (50 Mbps) to OC3*	120.00	280.00
1 Gbps Ethernet (150 Mbps) to OC3*	155.00	410.00
1 Gbps Ethernet (300 Mbps) to OC12*	190.00	540.00
1 Gbps Ethernet (450 Mbps) to OC12*	225.00	670.00
1 Gbps Ethernet (600 Mbps) to OC 12*	260.00	800.00
1 Gbps Ethernet (600 Mbps) to OC12c	260.00	800.00
1 Gbps Ethernet (Full Rate) to OC48*	364.00	1,120.00
1 Gbps Fibre Channel (Full Rate) to OC48*	401.00	1,235.00
1 Gbps FICON (Full Rate) to OC48*	401.00	1,235.00

Service availability limited. Refer to # footnote on Page 20-192.

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20. Ethernet Private Line (Cont'd)**20.3 Ethernet Private Line #** (Cont'd)(H) **Rates and Charges** (Cont'd)

(2) On-Net Channel Mileage (Cont'd)

(a) **Protected** Channel Mileage (Cont'd)(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)

(2) 3-year Commitment Period/Term Plan

<u>Interface Type</u>	<u>Monthly Rate</u>	
	<u>Per Mile</u>	<u>Fixed</u>
10 Mbps Ethernet (Full Rate)	\$ 74.00	\$ 135.00
100 Mbps Ethernet (50 Mbps)*	91.00	220.00
100 Mbps Ethernet (Full Rate)	108.00	305.00
1 Gbps Ethernet (50 Mbps)*	91.00	220.00
1 Gbps Ethernet (150 Mbps)*	126.00	340.00
1 Gbps Ethernet (300 Mbps)*	161.00	460.00
1 Gbps Ethernet (450 Mbps)*	196.00	580.00
1 Gbps Ethernet (600 Mbps)	230.00	700.00
1 Gbps Ethernet (Full Rate)*	322.00	980.00
1 Gbps Fibre Channel (Full Rate)*	355.00	1,080.00
1 Gbps FICON (Full Rate)*	355.00	1,080.00
<u>(Mapped to SONET at One End)</u>		
10 Mbps Ethernet (Full Rate) to STS1	74.00	135.00
100 Mbps Ethernet (50 Mbps) to STS1*	91.00	220.00
100 Mbps Ethernet (Full Rate) to OC3c	108.00	305.00
1 Gbps Ethernet (50 Mbps) to OC3*	91.00	220.00
1 Gbps Ethernet (150 Mbps) to OC3*	126.00	340.00
1 Gbps Ethernet (300 Mbps) to OC12*	161.00	460.00
1 Gbps Ethernet (450 Mbps) to OC12*	196.00	580.00
1 Gbps Ethernet (600 Mbps) to OC 12*	230.00	700.00
1 Gbps Ethernet (600 Mbps) to OC12c	230.00	700.00
1 Gbps Ethernet (Full Rate) to OC48*	322.00	980.00
1 Gbps Fibre Channel (Full Rate) to OC48*	355.00	1,080.00
1 Gbps FICON (Full Rate) to OC48*	355.00	1,080.00

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE**20. Ethernet Private Line** (Cont'd)**20.3 Ethernet Private Line #**(Cont'd)(H) **Rates and Charges** (Cont'd)

(2) On-Net Channel Mileage (Cont'd)

(a) **Protected** Channel Mileage (Cont'd)(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)

(3) 5-year Commitment Period/Term Plan

<u>Interface Type</u>	<u>Monthly Rate</u>	
	<u>Per Mile</u>	<u>Fixed</u>
10 Mbps Ethernet (Full Rate)	\$ 63.00	\$ 90.00
100 Mbps Ethernet (50 Mbps)*	77.00	165.00
100 Mbps Ethernet (Full Rate)	90.00	240.00
1 Gbps Ethernet (50 Mbps)*	77.00	165.00
1 Gbps Ethernet (150 Mbps)*	113.00	290.00
1 Gbps Ethernet (300 Mbps)*	148.00	410.00
1 Gbps Ethernet (450 Mbps)*	184.00	530.00
1 Gbps Ethernet (600 Mbps)	219.00	650.00
1 Gbps Ethernet (Full Rate)*	307.00	910.00
1 Gbps Fibre Channel (Full Rate)*	338.00	1,005.00
1 Gbps FICON (Full Rate)*	338.00	1,005.00
<u>(Mapped to SONET at One End)</u>		
10 Mbps Ethernet (Full Rate) to STS1	63.00	90.00
100 Mbps Ethernet (50 Mbps) to STS1*	77.00	165.00
100 Mbps Ethernet (Full Rate) to OC3c	90.00	240.00
1 Gbps Ethernet (50 Mbps) to OC3*	77.00	165.00
1 Gbps Ethernet (150 Mbps) to OC3*	113.00	290.00
1 Gbps Ethernet (300 Mbps) to OC12*	148.00	410.00
1 Gbps Ethernet (450 Mbps) to OC12*	184.00	530.00
1 Gbps Ethernet (600 Mbps) to OC 12*	219.00	650.00
1 Gbps Ethernet (600 Mbps) to OC12c	219.00	650.00
1 Gbps Ethernet (Full Rate) to OC48*	307.00	910.00
1 Gbps Fibre Channel (Full Rate) to OC48*	338.00	1,005.00
1 Gbps FICON (Full Rate) to OC48*	338.00	1,005.00

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE**20. Ethernet Private Line** (Cont'd)**20.3 Ethernet Private Line #** (Cont'd)(H) **Rates and Charges** (Cont'd)

(2) On-Net Channel Mileage (Cont'd)

(a) **Protected** Channel Mileage (Cont'd)(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)

(4) 7-year Commitment Period/Term Plan

<u>Interface Type</u>	<u>Monthly Rate</u>	
	<u>Per Mile</u>	<u>Fixed</u>
10 Mbps Ethernet (Full Rate)	\$ 48.00	\$ 80.00
100 Mbps Ethernet (50 Mbps)	63.00	150.00
100 Mbps Ethernet (Full Rate)	77.00	220.00
1 Gbps Ethernet (50 Mbps)	63.00	150.00
1 Gbps Ethernet (150 Mbps)	100.00	275.00
1 Gbps Ethernet (300 Mbps)	137.00	400.00
1 Gbps Ethernet (450 Mbps)	174.00	525.00
1 Gbps Ethernet (600 Mbps)	210.00	650.00
1 Gbps Ethernet (Full Rate)	294.00	910.00
1 Gbps Fibre Channel (Full Rate)	324.00	1,005.00
1 Gbps FICON (Full Rate)	324.00	1,005.00
<u>(Mapped to SONET at One End)</u>		
10 Mbps Ethernet (Full Rate) to STS1	48.00	80.00
100 Mbps Ethernet (50 Mbps) to STS1	63.00	150.00
100 Mbps Ethernet (Full Rate) to OC3c	77.00	220.00
1 Gbps Ethernet (50 Mbps) to OC3	63.00	150.00
1 Gbps Ethernet (150 Mbps) to OC3	100.00	275.00
1 Gbps Ethernet (300 Mbps) to OC12	137.00	400.00
1 Gbps Ethernet (450 Mbps) to OC12	174.00	525.00
1 Gbps Ethernet (600 Mbps) to OC 12	210.00	650.00
1 Gbps Ethernet (600 Mbps) to OC12c	210.00	650.00
1 Gbps Ethernet (Full Rate) to OC48	294.00	910.00
1 Gbps Fibre Channel (Full Rate) to OC48	324.00	1,005.00
1 Gbps FICON (Full Rate) to OC48	324.00	1,005.00

Service availability limited. Refer to # footnote on Page 20-192.

ACCESS SERVICE

20. Ethernet Private Line (Cont'd)**20.3 Ethernet Private Line #** (Cont'd)(H) Rates and Charges (Cont'd)

(3) Access Aggregation Ports, Per Port

(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)

	<u>Interface Type</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(a)	1-year Commitment Period/Term Plan		
	OC3 (Supports Up to 3 Mapped STS1s)	\$ 50.00	\$1.00
	OC12 (Supports Up to 12 Mapped STS1s)	100.00	1.00
	OC48 (Supports Up to 48 Mapped STS1s)	300.00	1.00
(b)	3-year Commitment Period/Term Plan		
	OC3 (Supports Up to 3 Mapped STS1s)	50.00	1.00
	OC12 (Supports Up to 12 Mapped STS1s)	100.00	1.00
	OC48 (Supports Up to 48 Mapped STS1s)	300.00	1.00
(c)	5-year Commitment Period/Term Plan		
	OC3 (Supports Up to 3 Mapped STS1s)	50.00	1.00
	OC12 (Supports Up to 12 Mapped STS1s)	100.00	1.00
	OC48 (Supports Up to 48 Mapped STS1s)	300.00	1.00
(d)	7-year Commitment Period/Term Plan		
	OC3 (Supports Up to 3 Mapped STS1s)	50.00	1.00
	OC12 (Supports Up to 12 Mapped STS1s)	100.00	1.00
	OC48 (Supports Up to 48 Mapped STS1s)	300.00	1.00

Service availability limited. Refer to # footnote on Page 20-192.

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20. Ethernet Private Line (Cont'd)**20.4** Dedicated SONET Entrance Facilities**(A)** General

Dedicated SONET Entrance Facilities (DSEF) provides high capacity DS3s with enhanced survivability between a Customer Designated Location (CDL) and the Serving Wire Center (SWC) of that CDL. DSEF is provisioned over the Telephone Company's shared SONET network that includes a self-healing ring that passes through the CDL, the SWC of that CDL, and another wire center as determined by the Telephone Company.

(B) DSEF Components**(1)** DSEF consists of two basic service components:

- DSEF Terminations
- DSEF Interfaces

(a) DSEF Terminations

DSEF Terminations provide STS1 bandwidth between the CDL and the SWC of that CDL. The DSEF Terminations carry DS3 services and are delivered with enhanced survivability over the Telephone Company's self-healing SONET network. As a result, the Customer is assured continuity of communication for the DS3 service even if there is a fiber facility failure between the CDL and the SWC of that CDL.

(b) DSEF Interfaces

The DSEF Interface defines the engineering characteristics of the service hand-off at the CDL. The Customer must specify an electrical or optical interface for each DSEF Termination.

(i) Electrical Interface

The electrical DSEF Interface defines the type of service that is to be provided over the Telephone Company provided SONET network. The electrical interface type that is available is DS3 (44.736 Mbps).

The electrical DSEF Interface is used for connecting a DS3 service to a DSEF Termination at the CDL.

(ii) Optical Interface

The optical DSEF Interface defines the optical handoff at the CDL. The optical interface is used for DS3 services connecting to DSEF Terminations and being mapped to an optical interface at OC3, OC12, or OC48 bandwidth. For example, Customer has the option of connecting multiple DS3 services to DSEF Terminations and mapping multiple DS3 services to a single OC3 optical interface.

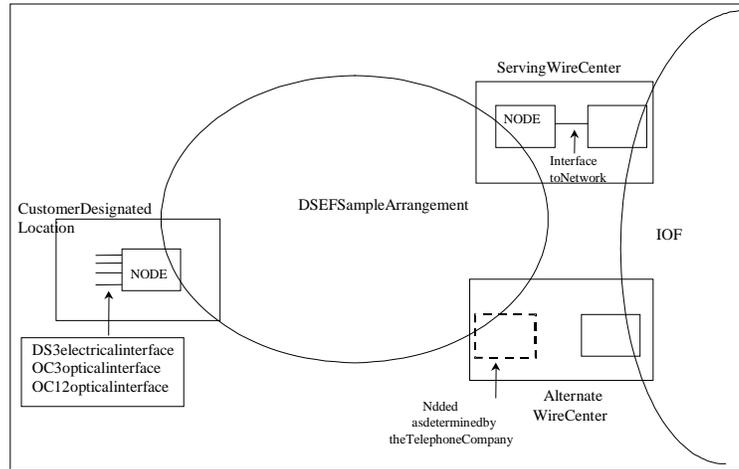
ACCESS SERVICE

20. Ethernet Private Line (Cont'd)

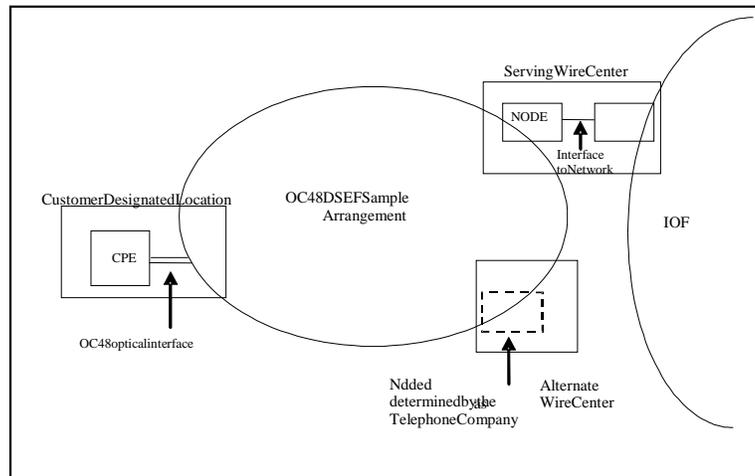
20.4 Dedicated SONET Entrance Facilities (Cont'd)

(B) DSEF Components (Cont'd)

(2) A network diagram of a DSEF with DS3 electrical interface and OC3 and OC12 optical interfaces is illustrated below:



(3) A network diagram of the DSEF with an OC48 optical interface is illustrated below:



(C) Technical Specifications

Technical specifications for DSEF are set forth in Technical Reference GR-253-CORE, Issue 4.

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20. Ethernet Private Line (Cont'd)**20.4** Dedicated SONET Entrance Facilities (Cont'd)**(D)** Terms and Conditions**(1)** Deployment and Availability

- (a)** DSEF is provided where SONET facilities and bandwidth are available to provide the requested DSEF Interface. The Telephone Company will work cooperatively with the Customer in determining the availability of such facilities and if service can be provided.

- (b)** DSEF is available based on negotiated intervals, as described in Section 5.1.7 preceding.

- (c)** Regulations for moves or rearrangements of DS3s are described in Section 7.2.1 preceding.

(2) Service Limitations

If the CDL is located in the same building as the SWC, the diversity between the SWC and the CDL may be limited by the physical paths available to connect the SWC and the CDL, and there may not be fiber diversity routed through an alternate wire center.

(3) Connection to Other Services

- (a)** Connection of DS3 Services to DSEF Terminations is provided by the Telephone Company. Interoffice mileage, when applicable, will apply at Circuit Mileage rates, as set forth in Section 7.11.5 preceding, for the appropriate DS3 service being transported over the interoffice facilities

Asynchronous multiplexing of DS1s into a DS3 occurs outside the DSEF and all terms and rates as set forth in Section 7.11 preceding are applicable for such multiplexing.

- (b)** DSEF may also be connected to the following Telephone Company provided services, where such connections are technically and operationally feasible, as determined by the Telephone Company.

- ethernet private line service
- point-to-point SONET service

(4) Space and Power

The Customer will be billed additional charges for any charges levied on the Telephone Company for space and power required to place equipment on the Telephone Company's side of the network interface.

(5) Conversions

Customers who wish to convert existing DS1 and lower bandwidth special access services to a DSEF may do so without termination liability as long as the total capacity of converted services at the CDL does not decrease. A new commitment period commences with the conversion and no credit is given for time-in-service on the new term plan. Applicable nonrecurring charges for installations will apply.

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20. Ethernet Private Line (Cont'd)**20.4** Dedicated SONET Entrance Facilities (Cont'd)**(E)** Application of Rates and Charges**(1)** Rate Structure**(a)** DSEF Terminations

Monthly recurring charges (MRCs) apply for DSEF Terminations. The MRCs are differentiated by the term plan and DSEF Interface selected by the Customer. Nonrecurring charges apply for installations of DSEF Terminations.

Additionally, the MRCs for DSEF Terminations apply on a tapered schedule basis as set forth in (F) following. The rate to be billed for each DSEF Termination is based on the total number of DSEF Terminations that are in-service as of each billing date, on a per CDL basis, and per Billing Account Number (BAN) basis. To determine the total number of DSEF Terminations, the Telephone Company will count all DSEF Terminations and Telephone Company provided SONET entrance facilities provided in connection with a Telephone Company provided point-to-point SONET service or ethernet private line service that terminate at such CDL that are in service and billed under the same BAN.

For example, a Customer purchases five (5) DSEFs that are in-service at three (3) different CDLs, with the 5 DSEFs being billed under two (2) different BANs.

(i) The first CDL has two (2) DSEFs, one with fifteen (15) in-service STS1 DSEF Terminations and the other with 5 in-service STS1 DSEF Terminations for a total of twenty (20) STS1 DSEF Terminations. Both DSEFs are under the same BAN. The rate to be billed for each DSEF Termination in the 2 DSEFs at the first CDL is the rate shown for 20 STS1 DSEF Terminations, as set forth in (F) following.

(ii) The second CDL has two (2) DSEFs, one with twenty (20) in-service STS1 DSEF Terminations and the other with twenty-two (22) in-service STS1 DSEF Terminations, for a total of forty-two (42) STS1 DSEF Terminations. The DSEFs at the second CDL are under separate BANs. The rate to be billed for each DSEF Termination in the first DSEF is the rate shown for 20 STS1 DSEF Terminations. The rate to be billed for each DSEF Termination in the second DSEF is the rate shown for 22 STS1 DSEF Terminations, as set forth in (F) following.

(iii) The third CDL has one (1) DSEF with nine (9) in-service STS1 DSEF Terminations on the same BAN. The rate to be billed for each DSEF Termination on the DSEF is the rate shown for 9 STS1 DSEF Terminations, as set forth in (F) following.

(b) DSEF Interfaces

MRCs for electrical DSEF Interfaces shall apply as set forth in (F)(2) following. When a customer orders a DSEF with a STS1 termination and an electrical interface, both the MRC for electrical DSEF interface (as set forth in (F)(2) following), and the MRC for STS1 Termination (as set forth in (F)(1) following) shall apply. The MRCs are differentiated by the term plan selected by the Customer. Nonrecurring charges apply for installations of electrical DSEF Interfaces, as set forth in (F)(3) following.

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20. Ethernet Private Line (Cont'd)**20.4** Dedicated SONET Entrance Facilities (Cont'd)**(E)** Application of Rates and Charges**(2)** Term Plans

DSEF is available for term plans of three (3) year and five (5) year commitment periods.

DSEF Services may be included in, and concurrently subscribed to, under the National Discount Plan as set forth in Section 22.1 following.

(3) Connection to Other Services

When a Customer connects a DSEF Termination to a DS3 service under a one (1) year commitment period, the DSEF Termination and Interface will be provided under a three (3) year commitment period.

When a Customer connects a DSEF Termination to a DS3 service under a three (3) year or five (5) year commitment period, the DSEF Termination and Interface will be provided under the same length commitment period.

When a Customer connects a DSEF Termination to a DS3 service under a seven (7) year commitment period, the DSEF Termination and Interface will be provided under a five (5) year commitment period.

(4) Expiration of Commitment Period

Upon expiration of the term plan, the Telephone Company will continue to provide DSEF on a month-to-month basis under the same rates, terms and conditions of the current term plan until the earliest to occur of: (a) the Customer cancels service or (b) a valid order for a new term plan is requested by the Customer.

(5) Termination Liability

- (a) A Customer must fulfill the term plan for each DSEF Termination and Interface, or be subject to termination liability for each DSEF Termination and Interface that was not in service for the entire commitment period. If a Customer disconnects service during the first year, termination liability will be calculated at one hundred percent (100%) of the MRCs for the unexpired portion of the first year, and at fifteen percent (15%) for the remainder of the term. If the disconnection takes place after the first year, termination liability is calculated at 15% of the MRCs for the remainder of the term.

- (b) Termination liability will not apply to DSEF when:

- (i) DSEF is canceled within thirty (30) days of the effective date of a Telephone Company initiated rate increase of eight percent (8%) or more on the Customer's MRCs (i.e., if the Customer's combined aggregate charge for the DSEF Terminations and Interfaces should increase by more than 8%).
- (ii) a Customer changes its term plan to a longer commitment period and the CDL does not change.

Certain material now appearing on this page formerly appeared on Original Page 20-335.

(y) Reissued material became effective May 11, 2007 under Transmittal No. 800.

ACCESS SERVICE20. Ethernet Private Line (Cont'd)20.4 Dedicated SONET Entrance Facilities (Cont'd)(F) Rates and Charges(1) DSEF Terminations
(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)(a) Per STS1/51.84 Mbps DSEF Termination
With a DS3 Electrical Interface

	Monthly Rate	Monthly Rate
	<u>3 Year Term</u>	<u>5 Year Term</u>
1	\$2,150.00	\$1,800.00
2	2,100.00	1,600.00
3	1,700.00	1,500.00
4	1,175.00	1,100.00
5	1,000.00	890.00
6	783.00	750.00
7	699.00	640.00
8	636.00	560.00
9	588.00	500.00
10	548.00	440.00
11	516.00	395.00
12	489.00	365.00
13	480.00	362.00
14	477.00	358.00
15	475.00	355.00
16	472.00	353.00
17	470.00	350.00
18	467.00	348.00
19	465.00	345.00
20	462.00	340.00
21	459.00	338.00
22	456.00	336.00
23	454.00	333.00
24	451.00	331.00

ACCESS SERVICE20. Ethernet Private Line (Cont'd)20.4 Dedicated SONET Entrance Facilities (Cont'd)(F) Rates and Charges (Cont'd)

(1) DSEF Terminations (Cont'd)

(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina and Washington)(a) Per STS1/51.84 Mbps DSEF Termination
With a DS3 Electrical Interface (Cont'd)

	Monthly Rate	Monthly Rate
	<u>3 Year Term</u>	<u>5 Year Term</u>
25	\$449.00	\$329.00
26	446.00	327.00
27	444.00	325.00
28	441.00	323.00
29	438.00	321.00
30	435.00	319.00
31	433.00	317.00
32	430.00	315.00
33	428.00	312.00
34	425.00	310.00
35	423.00	308.00
36	420.00	306.00
37	407.00	304.00
38	404.00	302.00
39	402.00	298.00
40	399.00	294.00
41	396.00	288.00
42	393.00	283.00
43	391.00	278.00
44	388.00	273.00
45	386.00	267.00
46	383.00	262.00
47	381.00	257.00
48 and up	378.00	252.00

ACCESS SERVICE20. Ethernet Private Line (Cont'd)20.4 Dedicated SONET Entrance Facilities (Cont'd)(F) Rates and Charges (Cont'd)

(1) DSEF Terminations (Cont'd)

(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)(b) Per STS1/51.84 Mbps DSEF Termination
With an OC3 Optical Interface

	Monthly Rate	Monthly Rate
	<u>3 Year Term</u>	<u>5 Year Term</u>
1	\$2,310.00	\$1,905.00
2	2,260.00	1,705.00
3	1,860.00	1,605.00
4	1,335.00	1,205.00
5	1,175.00	855.00
6	971.00	690.00
7	891.00	633.00
8	831.00	590.00
9	785.00	557.00
10	747.00	530.00
11	717.00	508.00
12	691.00	490.00
13	683.00	488.00
14	680.00	486.00
15	678.00	484.00
16	675.00	482.00
17	673.00	480.00
18	670.00	478.00
19	668.00	476.00
20	665.00	474.00
21	663.00	472.00
22	660.00	470.00
23	658.00	468.00
24	655.00	466.00

ACCESS SERVICE20. Ethernet Private Line (Cont'd)20.4 Dedicated SONET Entrance Facilities (Cont'd)(F) Rates and Charges (Cont'd)

(1) Terminations (Cont'd)

(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina and Washington)(b) Per STS1/51.84 Mbps DSEF Termination
With an OC3 Optical Interface (Cont'd)

	Monthly Rate	Monthly Rate
	<u>3 Year Term</u>	<u>5 Year Term</u>
25	\$653.00	\$464.00
26	650.00	462.00
27	648.00	460.00
28	645.00	458.00
29	643.00	456.00
30	640.00	454.00
31	638.00	452.00
32	635.00	450.00
33	633.00	448.00
34	630.00	446.00
35	628.00	444.00
36	625.00	442.00
37	613.00	440.00
38	610.00	438.00
39	608.00	434.00
40	605.00	430.00
41	603.00	425.00
42	600.00	420.00
43	598.00	415.00
44	595.00	410.00
45	593.00	405.00
46	590.00	400.00
47	588.00	395.00
48 and up	585.00	390.00

ACCESS SERVICE20. Ethernet Private Line (Cont'd)20.4 Dedicated SONET Entrance Facilities (Cont'd)(F) Rates and Charges (Cont'd)

(1) DSEF Terminations (Cont'd)

(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)(c) Per STS1/51.84 Mbps DSEF Termination
With an OC12 Optical Interface

	Monthly Rate	Monthly Rate
	<u>3 Year Term</u>	<u>5 Year Term</u>
1	\$2,310.00	\$1,905.00
2	2,260.00	1,705.00
3	1,860.00	1,605.00
4	1,335.00	1,205.00
5	1,175.00	970.00
6	896.00	855.00
7	816.00	745.00
8	756.00	665.00
9	710.00	605.00
10	672.00	545.00
11	642.00	500.00
12	616.00	470.00
13	608.00	465.00
14	605.00	455.00
15	603.00	450.00
16	600.00	445.00
17	598.00	440.00
18	595.00	435.00
19	593.00	430.00
20	590.00	424.00
21	588.00	422.00
22	585.00	420.00
23	583.00	418.00
24	580.00	416.00

ACCESS SERVICE20. Ethernet Private Line (Cont'd)20.4 Dedicated SONET Entrance Facilities (Cont'd)(F) Rates and Charges (Cont'd)

(1) DSEF Terminations (Cont'd)

(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, and Washington)(c) Per STS1/51.84 Mbps DSEF Termination
With an OC12 Optical Interface (Cont'd)

	Monthly Rate	Monthly Rate
	<u>3 Year Term</u>	<u>5 Year Term</u>
		-
25	\$578.00	\$414.00
26	575.00	412.00
27	573.00	410.00
28	570.00	408.00
29	568.00	406.00
30	565.00	404.00
31	563.00	402.00
32	560.00	400.00
33	558.00	398.00
34	555.00	396.00
35	553.00	394.00
36	550.00	392.00
37	538.00	390.00
38	535.00	388.00
39	533.00	384.00
40	530.00	380.00
41	528.00	375.00
42	525.00	370.00
43	523.00	365.00
44	520.00	360.00
45	518.00	355.00
46	515.00	350.00
47	513.00	345.00
48 and up	510.00	340.00

ACCESS SERVICE20. Ethernet Private Line (Cont'd)20.4 Dedicated SONET Entrance Facilities (Cont'd)(F) Rates and Charges (Cont'd)

(1) DSEF Terminations (Cont'd)

(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, Washington)(d) Per STS1/51.84 Mbps DSEF Termination
With an OC48 Optical Interface

	Monthly Rate	Monthly Rate
	<u>3 Year Term</u>	<u>5 Year Term</u>
1	\$6,288.00	\$4,488.00
2	3,144.00	2,244.00
3	2,096.00	1,496.00
4	1,572.00	1,122.00
5	1,258.00	898.00
6	1,048.00	748.00
7	898.00	641.00
8	786.00	561.00
9	699.00	499.00
10	629.00	449.00
11	572.00	408.00
12	524.00	343.33
13	517.00	342.41
14	515.00	340.58
15	513.00	338.74
16	510.00	337.82
17	509.00	335.99
18	506.00	334.15
19	505.00	333.23
20	502.00	331.40
21	500.00	329.56
22	498.00	327.73
23	496.00	326.81
24	493.00	324.97

ACCESS SERVICE20. Ethernet Private Line (Cont'd)20.4 Dedicated SONET Entrance Facilities (Cont'd)(F) Rates and Charges (Cont'd)

(1) DSEF Terminations (Cont'd)

(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada,
North Carolina, Washington)(d) Per STS1/51.84 Mbps DSEF Termination
With an OC48 Optical Interface (Cont'd)

	Monthly Rate	Monthly Rate
	<u>3 Year Term</u>	<u>5 Year Term</u>
25	\$492.00	\$323.14
26	489.00	322.22
27	488.00	320.38
28	485.00	318.55
29	483.00	317.63
30	481.00	315.79
31	479.00	313.96
32	476.00	312.12
33	475.00	311.20
34	472.00	309.37
35	471.00	307.53
36	468.00	306.61
37	458.00	304.78
38	455.00	302.94
39	454.00	300.19
40	451.00	296.51
41	449.00	292.84
42	447.00	289.17
43	445.00	285.50
44	442.00	280.91
45	441.00	277.24
46	438.00	273.56
47	437.00	269.89
48 and up	434.00	265.30

ACCESS SERVICE

20.	<u>Ethernet Private Line</u> (Cont'd)	
20.4	<u>Dedicated SONET Entrance Facilities</u> (Cont'd)	
(F)	<u>Rates and Charges</u> (Cont'd)	
(2)	DSEF Electrical Interfaces	
	(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada, North Carolina, and Washington)	
(a)	<u>DS3 Interface Monthly Recurring Charge</u>	
		<u>3-Year Term</u>
		\$157.00
		<u>5-Year Term</u>
		\$105.00
(3)	Installation Charges	
	(Jurisdiction: Arizona, California, Illinois, Indiana, Nevada, North Carolina, and Washington)	
(a)	<u>Per DSEF Termination</u>	
		<u>Nonrecurring Charges</u>
	STS1 w/ separate Interface	\$1.00
(b)	<u>Per electrical DSEF Interface</u>	
		<u>3-Year Term</u>
		<u>Nonrecurring Charges</u>
	per electrical DSEF Interface - DS3	\$1.00
		<u>5-Year Term</u>
		<u>Nonrecurring Charges</u>
	per electrical DSEF Interface - DS3	\$1.00