

AT&T INTERSTATE ACCESS GUIDEBOOK (Guidebook)

PART 7 - Special Access Services - West - CA
SECTION 1 - Section Not in Use

1st Revised Page 1

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.5 Video Service (Cont'd)(E) Optional Features and Functions (Cont'd)(7) Diversity Options

Diversity options are available where facilities exist. If appropriate facilities do not exist, Special Construction charges may apply. End-to-end diversity can be achieved by coupling Alternate Wire Center Diversity with Inter Wire Center Diversity. HDVT and SCVS offer four diversity options:

(a) Local Channel Diversity (LCD)

LCD provides for a transmission path between a designated customer premises and the standard serving wire center (SWC) that is diverse from the normal/standard transmission path. LCD requires two HDVT or SCVS services purchased by, or on behalf of, the same customer. With this arrangement, one or more local distribution channels will be provisioned over the standard route and one or more local distribution channels will be provisioned over the diverse route. LCD does not provide for full diversity; it only allows for diversity from the splice point closest to the customer's property line to the SWC. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premises, at the customer's expense. One LCD rate element applies for each channel termination.

(b) Inter-Wire Center Diversity (IWCD)

IWCD arrangements presume that each end of a HDVT or SCVS local distribution channel is served out of a different serving wire center (SWC). This arrangement provides a transmission path between the customer's designated SWC and the SWC at the distant end of the circuit, over a transmission path that is separate from the standard transmission path between the two wire centers. Interoffice mileage will be calculated between the intermediate WC along the circuit path of the diversely routed HDVT or SCVS service. IWCD requires two HDVT or SCVS services purchased by, or on behalf of, the same customer. IWCD does not provide for full diversity; it only offers interoffice diversity. If a customer desires full diversity, Alternate Wire Center Diversity must be implemented along with IWCD. Additionally, arrangements must be made for constructing dual entrance facilities at the customer's premises, at the customer's expense.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.5 Video Service (Cont'd)(E) Optional Features and Functions (Cont'd)(7) Diversity Options (Cont'd)(c) Alternate Wire Center Diversity (AWCD)

AWCD is for the local loop only. It provides a local channel transmission path for HDVT or SCVS service between the customer's designated premises and a wire center that is not the customer's standard serving wire center. The Telephone Company will choose the alternate wire center closest to the customer's designated premises that is capable of providing HDVT or SCVS service over the alternate route. AWCD does not require the purchase of two HDVT or SCVS services by, or on behalf of, the same customer, nor does it require the customer to have an existing HDVT or SCVS circuit operating over the standard route to the customer's standard serving wire center. With this arrangement, one or more local distribution channels will be provisioned over the alternate route. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premises, at the customer's expense. One AWCD rate element applies for each channel termination.

(d) Equipment Only Diversity (EOD)

EOD allows for a HDVT or SCVS circuit to terminate on separate equipment from another HDVT or SCVS circuit. The diverse circuit will be provisioned on its own Equipment, i.e., separate laser, separate encoder/decoder, chassis, and separate power supply.

The customer must order at least two circuits, and request that one of the circuits terminate on different equipment from the other circuit(s). A circuit subscribing to EOD will not be provisioned over a diverse route unless the customer orders one of the diversity options (local channel, alternate wire center, or inter-wire center).

EOD may be selected for one or both terminating ends. One EOD rate element applies for each channel termination.

7.2.12 Gigabit Ethernet Metropolitan Area Network (GigaMAN®) ⁽¹⁾ ⁽²⁾(A) Basic Channel Description

GigaMAN® is a fiber based, point-to-point, gigabit Ethernet service that allows customers to transport data signals between local area networks (LANs). GigaMAN® transports data signals at the rate of 1 gigabit per second (Gbps). All basic service configurations provide a single direction of transmission.

The following conditions will apply to GigaMAN®:

- (1) This service is available to Customers in select areas within the LATAs served by the Telephone Company.
- (2) If existing facilities do not exist Special Construction will apply.
- (3) The Telephone Company considers a service interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this Guidebook in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer. An interruption period starts when a customer reports an inoperative service to the Telephone Company and the Telephone Company confirms that continuity has been lost, and ends when the service is operative.

⁽¹⁾ Effective October 2, 2017, GigaMAN Service is no longer available for new circuits. The Telephone Company no longer accepts orders for adds, moves, changes or new term plans for GigaMAN Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing GigaMAN term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ^{(1) (2)}(A) Basic Channel Description (cont'd)

(4) Service Provisioning

- (a) The customer provided equipment (CPE) must deliver the data signals for GigaMAN® transport for the subscribed data service.
- (b) GigaMAN® provides physical layer transport only. The Telephone Company assumes no responsibility for the through transmission of signals generated by the CPE, for the signals by the CPE, or address signaling to the extent the CPE performs addressing. Error detection and correction of data generated by the CPE is the customer's responsibility.

(B) Channel Configuration

There are six (6) basic rate elements, which apply to GigaMAN® service:

(1) Local Distribution Channel (LDC)

Local Distribution Channel (same as Channel Termination) is the termination GigaMAN® of at a customer designated premise (node), as described in Part 2, Section 7 of this Guidebook, consisting of the following elements:

- (a) the termination for the fiber optic facilities at each node and its serving wire center.
- (b) the fiber optic facility between each node and its serving wire center.

(2) Interoffice Mileage

Interoffice Transport facilities, which provide the transmission path between Serving Wire Centers associated with two customer designated premises, are comprised of Fixed and Per Mile rate elements.

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(B) Channel Configuration (cont'd)

(3) Repeater

Repeaters (Circuit Regenerators) provide essential detection and retransmission of GigaMAN® signals. Repeaters are provided as required by the Telephone Company when actual fiber facility loss between customer designated premises and/or central office locations exceed design limits. Repeaters will be located exclusively in Telephone Company central offices and are required for each successive transport segment of approximately 21.4 db.

When protection options are ordered, as set forth in Section 7.2.12(K), additional repeaters may be necessary on the protected path as determined by the Telephone Company. The Repeater rate element will be applied to a protected circuit per fiber pair.

(4) Local Channel Diversity

Local Channel Diversity provides for a transmission path between a designated customer premises and the standard service wire center (SWC) that is diverse from the normal/standard transmission path. With this arrangement, one or more local distribution channels will be provisioned over the standard route and one or more local distribution channels will be provisioned over the diverse route.

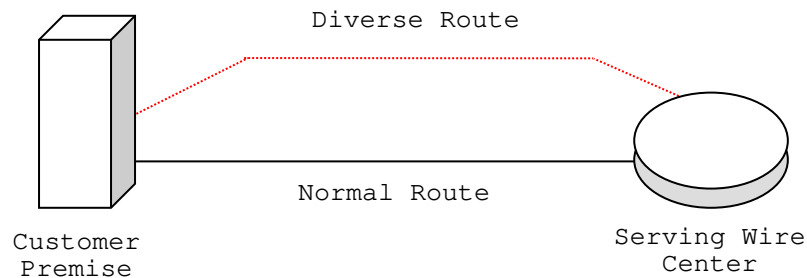
⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(B) Channel Configuration (cont'd)

(4) Local Channel Diversity (cont'd)

Local channel diversity does not provide for all diversity, it only allows for diversity from the splice point closest to the customer's property line to the SWC. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premises, at the customer's expense.



(5) Inter-Wire Center (IWC) Diversity

Inter-Wire Center (IWC) Diversity arrangements presume that each end of a GigaMAN® local distribution channel is serviced out of a different serving wire center (SWC). This arrangement provides a transmission path for GigaMAN® local distribution channels between the customer's designated SWC and the SWC at the distant end of the circuit over a transmission path that is separate from the standard transmission path between the two wire centers. IWC diversity does not provide for full diversity. It only offers interoffice diversity. If a customer desires full diversity, Alternate Wire Center Diversity must be implemented along with IWC Diversity. Additionally, arrangements must be made for constructing dual entrance facilities at the customer's premises, at the customer's expense.

⁽¹⁾ See Page 2 for Service availability information.

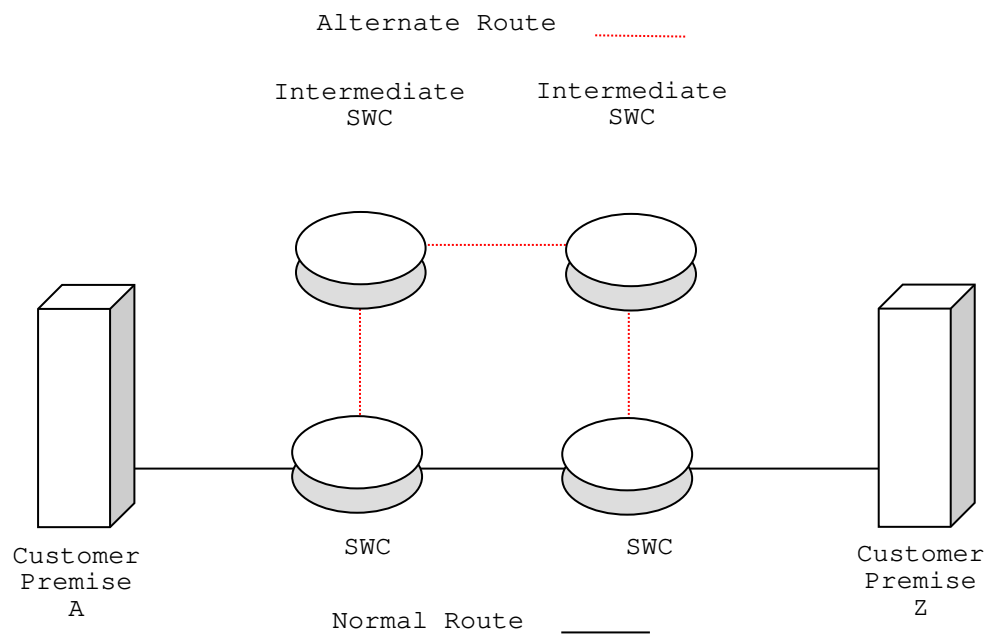
⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ^{(1) (2)}(B) Channel Configuration (cont'd)

(5) Inter-Wire Center (IWC) Diversity (cont'd)

(a) Inter-Wire Center (IWC) Diversity Mileage Measurement

Mileage measurements for Access Services provisioned via an Inter-Wire Center Diversity, will be based on the special routing; i.e. mileage measurements will be calculated between the Intermediate Serving Wire Centers along the circuit path of the diversely routed GigaMAN® service.



⁽¹⁾ See Page 2 for Service availability information.

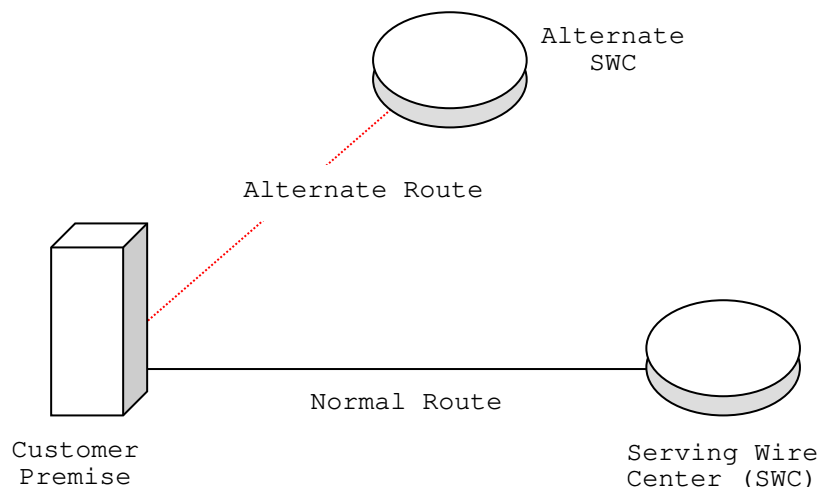
⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(B) Channel Configuration (cont'd)

(6) Alternate Wire Center Diversity

Alternate Wire Center Diversity is for the local loop only. It provides a local channel transmission path for GigaMAN® service between the customer's designated premises and a wire center that is not the normal (or standard) service wire center. The Telephone Company will choose the alternate wire center closest to the customer's designated premises that is capable of providing GigaMAN® service over the alternate route. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premises, at the customer's expense.

If the circuit routed to the alternative wire center has Interoffice Mileage, measurements will be based on the special routing; i.e. mileage measurements will be made to the alternate wire center rather than the serving wire center from which the customer designed premises would normally obtain dial tone.



⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(C) Non-recurring Charges

Non-recurring charges are one-time charges that apply for specific work activity related to the provisioning of GigaMAN Service, as described in Part 2, Section 7 of this Guidebook.

(D) Recurring Charges

Recurring Charges are rates that apply each month or fraction thereof that the service is provided. Recurring rates apply to 12-, 36-, or 60- month term periods under the terms and conditions of Term Pricing Plan (TPP), discussed in Section 7.2.12(F).

(E) Monthly Extension Rates

Upon completion of a TPP, customer's service will automatically convert to the Monthly Extension Rates unless the customer requests a new TPP.

(F) Term Pricing Plan (TPP)

GigaMAN is available for 12-, 36-, or 60- month periods.⁽¹⁾ Monthly recurring charges apply for Local Distribution Channels (TMECS), Interoffice Transport Fixed Mileage (1L5XX), and Mileage (1L5XX) where appropriate.

(1) Renewals⁽¹⁾

At the end of a TPP period, the customer must select one of the following options within one month prior to the expiration date:

- a. Renew the service for a one, three, or five year TPP as provided in this Guidebook;
- b. Elect to disconnect the service upon expiration of the billing period; or
- c. Continue the service on a monthly basis at the current Monthly Extension Rates.

All services under an existing TPP that are not renewed within the period stated above will revert to Option (1)c above and be billed at the current Monthly Extension Rates.

⁽¹⁾ Effective October 2, 2017, GigaMAN Service is no longer available for new circuits. The Telephone Company no longer accepts orders for adds, moves, changes or new term plans for GigaMAN Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing GigaMAN term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(F) Term Pricing Plan (TPP) (cont'd)(2) Conversions⁽¹⁾

During the customer's TPP term conversions may be made to a new TPP term of the same or greater length. The expiration date of the new service must be beyond the expiration date of the original TPP term. With the new TPP, the customer incurs no liability for the remaining months on the original TPP.

An Administrative Charge is applicable when customers renew or change the length of the TPP term.

(3) Termination Liability

Customers requesting termination of service prior to the expiration date of the TPP term will be liable for a termination charge equal to fifty percent (50%) of the Monthly Recurring Rate for the number of months remaining in the applicable TPP term, which is calculated as follows:

$$(\text{Monthly Recurring Rate}) \times (\text{Months Remaining in TPP term}) \times (50\%) = \text{Termination Liability Charge}$$

Example:

A GigaMAN® Customer with a \$6,000.00 monthly rate terminates service after 2 years with 1 year (12 months) remaining in a 3 year TPP. The termination liability charge would be calculated as:

$$\$6,000 \times 12 \times .50 = \$36,000.00 \text{ Termination Liability}$$

⁽¹⁾ Effective October 2, 2017, GigaMAN Service is no longer available for new circuits. The Telephone Company no longer accepts orders for adds, moves, changes or new term plans for GigaMAN Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing GigaMAN term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(G) Moves ⁽¹⁾

Moves involve a change in the physical location of one of the following:

- Service rearrangement;
- Point of Termination at the customer's premises; or
- Customer's premises.

Move charges are dependent upon the type of move requested by the customer.

(1) Service Rearrangement

Service rearrangements are changes to existing (installed) services, which do not result in a change in the minimum period requirements, as set forth in Part 2, Section 7 of this Guidebook.

(2) Moves Within the Same Building

When the move is to a new location within the same building, the Administration charge and Customer Connection charge for the service termination affected will apply. There will be no change in the minimum period requirements, as described in Part 2, Section 7 of this Guidebook.

(3) Moves to a Different Building

Moves to a different building will be treated as a discontinuance therefore start of service, all associated nonrecurring charges, and new minimum period requirements, as described in Part 2, Section 7 of this Guidebook, will apply.

⁽¹⁾ Effective October 2, 2017, GigaMAN Service is no longer available for new circuits. The Telephone Company no longer accepts orders for adds, moves, changes or new term plans for GigaMAN Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing GigaMAN term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(G) Moves (cont'd)

(4) GigaMAN® customers subscribing to three (3) and five (5) year Term Pricing Plans may move one end of the GigaMAN® service per the following conditions:

- (a) A customer may move one end of the GigaMAN® service to a different premises in the same LATA, without incurring early termination liability charges for their existing GigaMAN® service, providing the following criteria are met, contingent upon the availability of fiber from premises to premises.
- Customers must have completed at least 15 months (for 3 year term plan), and 18 months (for 5 year term plan) of their existing GigaMAN® contracted term plan,
 - The customer subscribes to a new term pricing plan period that is greater than the remaining months in the existing term pricing plan,
 - Nonrecurring charges will apply where applicable,
 - Spare facilities and equipment must be available or special construction charges, as set forth in this Guidebook, shall apply.

The moved service will require a disconnect of the existing GigaMAN® service and placement of an order for the new GigaMAN® service for same customer of record as disconnected service.

The monthly rates for the new services(s) shall be those rates in effect at the time the new service(s) is being installed requiring a disconnect of the existing GigaMAN® service and placement of an order for new GigaMAN® service.

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(G) Moves (cont'd)

(b) The GigaMAN® service installed without protection and customer subsequently request protection options after the GigaMAN® order has been completed, and customer premises locations remain the same. This will require a change to the customer premises based Telephone Company equipment. This change will be treated as an upgrade to the GigaMAN service, and a new nonrecurring charge is applicable. This change will require a disconnect of the existing GigaMAN service and placement of an order for the new GigaMAN service for the same customer of record. With this upgrade the customer will experience an out of service condition.

(c) The GigaMAN service was installed with protection options and the customers subsequently requests a move of the Channel Termination within the same building afterwards. This request may require a change to the customer premises based Telephone Company equipment which will be determined by the Telephone Company. Nonrecurring charges as set forth in Section 7.5.14, are applicable (one-half the nonrecurring charge for the channel termination). With this upgrade the customer will experience an out of service condition.

(H) Mileage Measurement

The mileage is calculated on the airline distance between the locations involved, i.e. the serving wire centers associated with two customer designated premises and an international boundary point, a serving wire center associated with a customer designated premises and a Telephone Company Hub, a serving wire center associated with a customer designated premises and a WATS Serving Office as described in Part 2, Section 7 of this Guidebook.

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(I) Upgrades

An upgrade is considered an increase in speed or capacity when comparing GigaMAN® Service to the new service. Customers will be permitted to upgrade to a higher-speed service provided by the Company, without incurring Termination Charges, given all of the following conditions are met:

- (1) The customer must issue a disconnect order for the existing GigaMAN® Service and place a service order for the new higher-speed service at the same locations such that there is no more than 90 days overlap in service.
- (2) The new higher-speed service term must be equal to or greater than the remaining time left on the existing GigaMAN® term.
- (3) The existing GigaMAN® Service must have been in service for a minimum period of 15 months for a 36-month term or 18 months for a 60-month term. Existing GigaMAN® Service with 12-month terms will not be eligible for this upgrade option.

The monthly rates for the new service will be those rates in effect at the time the new service is installed.

(J) Modification of Access Service

The customer may request a modification of its Access Order at anytime prior to notification by PBTC that service is available for the customer's use. PBTC will make every effort to accommodate a requested modification when it is able to do so with the normal work force assigned to complete such an order within normal business hours.

If the modification cannot be made with the work force during normal business hours, PBTC will notify the customer. If the customer still desires the Access Order Modification, PBTC will schedule a new service date. All charges for Access Order modifications will apply on a per occurrence basis as described in Part 2, Section 5 of this Guidebook.

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

(K) Optional Features

(1) Protection Options

Protection options are provisioned on the customers GigaMAN® service and the customer is not required to purchase a second GigaMAN® circuit for protection options. Protection options are applied on a per GigaMAN® circuit basis only.

Protection options are available where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not permit, special construction charges as set forth in this Guidebook, may apply. Protection options provide additional levels of reliability to GigaMAN® service. There are multiple protection options offered. The options do not need to be the same, but both Channel Terminations of the GigaMAN® service must include some form of protection for the service to be considered protected.

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(K) Optional Features (cont'd)(1) Protection Options (cont'd)

The Telephone Company will design the protection optional based upon the configuration of the customers GigaMAN® service.

Additional repeaters may be necessary on the protected path as determined by the Telephone Company as set forth in Part 2, Section 7 of this Guidebook.

Protection switching in less than 50 milliseconds will occur on GigaMAN® services with protection options, with the exception of Power Protection which is not switch protected. Protection options are offered with a Service Level Agreements (SLA) that target a service availability of 99.999%. SLA's are not applicable in the event of cable cut in any unprotected portion of the GigaMAN® service fiber path or when customer requested modifications to the service require down time.

GigaMAN® Protection Options are offered as follows:

(a) Equipment Only Protection - per Termination End

(b) Equipment Plus Fiber Path Protection

(1) Equipment Plus Alternate Wire Center Path
Protection - per Terminating End

(2) Equipment Plus Channel Termination Path
Protection - per Terminating End

(3) Inter Wire Center Path Protection - per
Interoffice Segment

(c) Power Protection

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(K) Optional Features (cont'd)(2) Equipment Only Protection

Equipment Only Protection offers one GigaMAN® signal routed on two different fiber pairs that co-exist in the same cable and conduit structure that terminate into two distinct and separate network terminating equipment devices at the customer's premises.

All protected configurations have one working and one standby path. In event of a failure of the customer's transmission path, the GigaMAN® equipment will switch, within 50 milliseconds of detection, the customer's transmission to a dedicated standby path. In the event of a failure to both fiber transmission paths, an out of service condition will result. This form of protection can only be ordered per channel termination for each protected GigaMAN® service, and may also apply to the Inter-Wire center segment if the GigaMAN® service is served by more than one serving wire center.

If a customer requests complete protection extending to the SBC serving wire center from their premises location when utilizing Equipment Protection, they must request diverse entrance facilities into their premises at each end from the nearest SBC splice point closest to the customer premises location, this work is subject to special construction charges as set forth in this Guidebook.

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(K) Optional Features (cont'd)(3) Equipment Plus Fiber Path Protection

Equipment Plus Fiber Path Protection offers varying degrees of path protection for each channel termination of the GigaMAN® service, plus the inter-wire segment if the service is served by more than one serving wire center, and is offered as follows:

(a) Equipment Plus Alternate Wire Center Path Protection

Equipment Plus Alternate Wire Center Path Protection offers one GigaMAN® signal routed over one fiber pair of the protected GigaMAN® service from the customer's premises to the customer's normal serving wire center, and a duplicate GigaMAN® signal routed over a diversely routed fiber pair to the alternate wire center selected by the Telephone Company.

If any location(s) between the two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine accept the engineered path or agree to pay special construction charges as set forth in this Guidebook, to provide a completely diverse route where the ten foot allowance is not acceptable to the customer.

Where facilities are not available, the Customer may select Equipment Only Protection for an inter-office segment. This option can be selected for one or both channel terminations of the GigaMAN® service.

All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, the GigaMAN® service will switch to a dedicated standby path within 50 milliseconds of detection. In the event of a failure to both fiber transmission paths, an out of service condition will result. This form of protection can only be ordered per channel termination for each protected GigaMAN® service.

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(K) Optional Features (cont'd)(3) Equipment Plus Fiber Path Protection (cont'd)(a) Equipment Plus Alternate Wire Center Path Protection (cont'd)

If a customer requests complete protection extending to the SBC serving wire center from their premises location when utilizing Equipment Protection Plus Alternate Wire Center Path Protection, they must request diverse entrance facilities into their premises at each end from the nearest SBC splice point closest to the customer premise location. This work is subject to special construction charges as set forth in this Guidebook.

(b) Equipment Plus Channel Termination Path Protection

Equipment Plus Channel Termination Path Protection offers a duplicate GigaMAN® signal routed over two diversely routed fiber paths, to the customer's normal serving wire center.

If any location(s) between two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine to accept the engineered path or agree to pay special construction charges as set forth in this Guidebook, to provided a completely diverse route where the ten foot allowance is not acceptable to the customer.

All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, GigaMAN® technology will switch within 50 milliseconds of detection, the customer's transmission to a dedicated standby path. In the event of failure to both fiber transmission to a dedicated standby path, or failure to both fiber transmission paths, an out of service condition will result.

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(K) Optional Features (cont'd)(3) Equipment Plus Fiber Path Protection (cont'd)(b) Equipment Plus Channel Termination Path Protection (cont'd)

This form of protection can only be ordered per channel termination for each protected GigaMAN® service, from the customers premises location, or from the manhole/splice point nearest the customer premises), to the Utility serving wire center.

If a customer requests complete protection extending to the SBC serving wire center from their premises location when utilizing Equipment Protection Plus Channel Termination Path Protection, they must request diverse entrance facilities into their premises at each end from the nearest SBC splice point closest to the customer premises location. This work is subject to special construction charges as set forth in this Guidebook.

(c) Inter-Wire Center Path Protection

Inter-Wire Center Path Protection offers a duplicate GigaMAN® signal routed over two diversely routed fiber paths, between the two serving wire centers or alternate wire centers. Path protection starts at the nearest manhole outside the Telephone Company serving wire center. Inter Wire Center Path Protection must be ordered with either Equipment Only, Channel Termination Path Protection or Alternate Wire Center Path Protection.

If any location(s) between the two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine to accept the engineered path or agree to pay special construction charges as set forth in this Guidebook, to provide a completely diverse route where the ten foot allowance is not acceptable to the customer.

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(K) Optional Features (cont'd)(3) Equipment Plus Fiber Path Protection (cont'd)(c) Inter-Wire Center Path Protection (cont'd)

All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, GigaMAN® technology will switch, within 50 milliseconds of detection, the customer's transmission to a dedicated standby path. In the event of a failure to both fiber transmission paths, an out of service condition will result.

(d) Power Protection

Power Protection provides GigaMAN® customers with battery backup for up to eight (8) hours to maintain GigaMAN® equipment in the event of a commercial AC power failure.

Power Protection is offered on a per equipment bay capacity basis, per customer premise, and depending upon the number of GigaMAN® services for the GigaMAN® customer of record. The Telephone Company will apply the power protection rate elements based upon the circuit capacity, and more than one element may be applicable. The Telephone Company will determine the design and engineering requirements for Power Protection for GigaMAN® customers.

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ^{(1) (2)}(K) Optional Features (cont'd)(3) Equipment Plus Fiber Path Protection (cont'd)(d) Power Protection (cont'd)

Customers in multi-tenant buildings will require separate equipment and bays dedicated to each customer.

The addition of Power Protection to existing GigaMAN® service may result in temporary service interruption.

Power Protection is not available for installations using the wall mounted cabinet.

Customers are responsible for providing floor space for power equipment as set forth in Part 2, Section 2 of this Guidebook.

(L) Allowance for Service InterruptionsGigaMAN® (Not fully protected)

The GigaMAN® outage credits listed below are in lieu of, and not in addition to, the outage credit allowances provided for in the General Conditions Section of this Guidebook.

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this Guidebook, or in the event that the protective controls applied by the Company result in the complete loss of service by the customer. An interruption period starts when an inoperative service is reported to the Company and the Company confirms that continuity has been lost, and ends when the service is operative.

In case of an interruption to GigaMAN® service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100 percent of the applicable monthly rates.

The Company's failure to provide or maintain services under this Guidebook shall be excused by force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.2.12 Gigabit Ethernet Metropolitan Area Network (cont'd) (GigaMAN®) ⁽¹⁾ ⁽²⁾(L) Allowance for Service Interruptions (cont'd)GigaMAN® (Fully Protected)

A Service Level Agreement (SLA) is offered with fully-protected GigaMAN® service, which provides the customer with a performance commitment that includes financial compensation if the service does not perform as described.

An SLA of 99.999 percent Service Availability performance is offered on GigaMAN® service with protection (defined as Equipment Plus Path Protection) for every segment of the service.

If this SLA is not met, the customer will be entitled to a credit equal to 100 percent of the monthly rate for the period of the interruption of service affecting that rate element(s), not to exceed the total monthly charges for the services. Only one such credit in a billing period will apply.

The service is considered interrupted when the customer reports a service disruption of greater than ten (10) consecutive seconds to the Telephone Company and the Telephone Company confirms that continuity of its service has been lost.

In order to qualify for this credit, the outage must be determined by the Telephone Company to be in its network and the failure occurred in that part of the service with the protection. SLA adjustments are not available in the event of a cable cut, in any unprotected portion of the GigaMAN® service fiber path, or due to customer requested modifications to the service that may require down time.

SLAs are applicable to customers who purchase Equipment Plus Alternate Wire Center Path Protection or Equipment Plus Channel Termination Path Protection on both ends of a GigaMAN® service (both channel terminations) as well as Inter-Wire Center Path Protection when applicable. The customer is responsible for notifying the Telephone Company when the service parameter within the calendar month falls below the committed level. The customer must request a service credit adjustment within 25 days after the end of the month when the failure occurred.

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

(M) Meet Point Arrangements

In some cases, the Telephone Company and another Incumbent Local Exchange Carrier (ILEC, sometimes also referred to as an Independent Company or ICO) may agree to jointly provide an Ethernet service where such service will be provided to locations in both the Telephone Company's and the other ILEC's serving territories within the same LATA. In such cases, the Telephone Company and the other ILEC may mutually agree to meet at a location (i.e., meet point) within the LATA utilizing facilities suitable for delivery of GigaMAN® service. The rates and charges for GigaMAN® service are applicable for the Telephone Company provided portion of such service. The Telephone Company is responsible for the ordering, provisioning, billing and maintenance of GigaMAN® service up to the meet point. See Part 2, Section 2.8, for regulations applicable to Jointly Provided Access Services.

(N) Migration to AT&T Dedicated Ethernet Service

Customers subscribing to GigaMAN or DecaMAN service may migrate to AT&T Dedicated Ethernet provided by the Telephone Company without incurring termination liability, subject to the following conditions:

- (1) The new AT&T Dedicated Ethernet and the existing GigaMAN or DecaMAN service must be billed to the same customer of record at the same customer locations.
- (2) The customer's existing service must have been in place for at least 12 months.
- (3) The minimum term for the new service must be at least 12 months and must be equal to or greater than the number of months remaining in the customer's existing Term Payment Plan (TPP) term.
- (4) The speed (capacity/bandwidth) of the new service must be equal to or greater than that of the existing service.
- (5) The customer must issue a disconnect order for the replaced GigaMAN or DecaMAN service to be effective within 90 days after the AT&T Dedicated Ethernet installation date. The disconnect order and new orders must be coordinated through the Telephone Company.
- (6) If overlapping service is required, the period will be limited to not more than 90 days and billing will apply to both services during the time both services are available.

⁽¹⁾ See Page 2 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.4 Rate Conditions7.4.7 Video Service

(A) Video Hubs

The Telephone Company will designate certain Hubs for Video Services. Full-time service will be provided accordingly at the monthly rates as set forth in 7.5.5 of this Guidebook, for a Channel Termination, Optional Features and Functions, and Channel Mileage, as applicable. The customer may order part-time and occasional Video services as needed between that Hub and a second customer designated premises. The rate elements required to provide the part-time or occasional service (i.e., Channel Termination, Optional Features and Functions, and Channel Mileage, as applicable) will be billed at daily rates for the duration of the service requested.

(B) Termination of Service

Customers requesting the termination of service prior to the expiration of the minimum service period, will be charged as indicated below:

Months remaining				
Monthly Rate	X	in Minimum	X	80%
Service Period				

= Termination Charge.

(C) Video Pricing Plan (VPP)

(1) General Description

Video Pricing Plan (VPP) provides the customer with rate stabilization and discounted rates. The customer agrees to a 1, 3 or 5 year service period. High Definition Video Transport (HDVT) can be purchased over a 1, 2, 3 or 5 year service period.

If the Telephone Company initiates rate changes resulting in a decrease of rates for an existing service with a 1, 2, 3 or 5 year fixed service period, those rate changes will be passed along to the customer. Rate changes resulting in an increase of rates for an existing service with a 1, 2, 3 or 5 year service period will not exceed the original rate for that selected service period. Rate changes may occur as a result of F.C.C. action.

(2) Services Available under VPP

A customer may elect to participate in VPP for the following rate elements:

- (a) AVS-270 and HDVT
 - Channel Termination
 - Channel Mileage
 - Optional Features and Functions

7.5 Rates and Charges7.5.5 Video Service(A) Serial Component Video Service (SCVS)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Daily Rates</u>
(1) Channel Termination			
-Per point of termination	AVSVM/AVSVD	\$ 750.00	\$315.00

Nonrecurring Charges - SCVS

	<u>USOC</u>	<u>1st Ckt.</u>	<u>Addl. Ckt.</u>
Monthly	AVSVM	\$1,000.00	\$500.00
Daily	AVSVD	1,866.00	755.00

(2) Channel Mileage

		<u>Monthly Rates</u>		<u>Daily Rates</u>	
	<u>USOC</u>	<u>Fixed</u>	<u>Per Mile</u>	<u>Fixed</u>	<u>Per Mile</u>
0 - <21	1L5XW/1L5	\$ 50.00	\$20.00	\$50.00	\$20.00
21 - <41	1L5XW/1L5	100.00	20.00	100.00	20.00
41 - <61	1L5XW/1L5	150.00	20.00	150.00	20.00
61 - <80	1L5XW/1L5	200.00	20.00	200.00	20.00

(A) Serial Component Video Service (SCVS) (Cont'd)

	<u>USOC</u>	<u>Nonrecurring Charge</u>
(3) Service to Service Through Connect - SCVS	BCSTC	\$160.00

(4) Optional Features and Functions

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Daily Rate</u>	<u>Nonrecurring Charge</u> ⁽¹⁾
(a) SCVS-Virtual Studio	27VSM/27VSD	100.00	76.00	500.00

(b) Hubbing Arrangements - SCVS

	<u>USOC</u>	<u>Nonrecurring Charge</u>
-Full-time to Full-time	B5N6F/BCSWV	\$ 18.00
-Full-time to Part-time	B5N6F/BCSWV	18.00
-Part-time to Part-time	B5N6F/BCSWV	18.00

(c) Optical, Wavelength and Ethernet Handoff Options and Interfaces

	<u>USOC</u>	<u>Daily Rates</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u> ⁽¹⁾
-OC-3 Handoff Option	VOF3X/ VOF32	N/A	\$750.00	\$700.00
-OC-12 Handoff Option	VOF1X/ VOF12	N/A	\$1,675.00	\$700.00
-OC-48 Handoff Option	VOF4X	N/A	\$1,675.00	\$700.00
-2.5Gbps Ethernet /Wavelength Handoff	VOFAX	N/A	\$1,675.00	\$700.00
-10Gbps Ethernet Handoff	VOFBX	N/A	\$1,675.00	\$700.00
-SMPTE 310M Digital Interface	V1F3X/ V1F32	\$250.00	\$400.00	\$500.00
-NTSC Analog Interface	NTSCM/ NTSCD	\$150.00	\$200.00	\$500.00

(d) Diversity Options

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
-Local Channel Diversity	CPAMX	\$410.00	N/A
-Alternate Wire Center Diversity	CPABX	\$660.00	N/A
-Inter-Wire Center Diversity	CPAUX	\$290.00	N/A
-Equipment Only Diversity	CPACX	\$415.00	N/A

⁽¹⁾ Nonrecurring charge is waived when feature is ordered and installed concurrently with associated Channel Termination.

(5) Video Pricing Plan (VPP)

(A) Serial Component Video Service (SCVS)(1) Channel Termination
Per point of termination

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
			<u>1st Ckt.</u>	<u>Addl. Ckt.</u>
1 Year	AVSVM/AVSV1	\$650.00	\$500.00	\$250.00
3 Year	AVSVM/AVSV3	575.00	0.00	0.00
5 Year	AVSVM/AVSV5	500.00	0.00	0.00

(2) Channel Mileage

		<u>1 Year</u>		<u>3 Year</u>		<u>5 Year</u>	
		<u>Monthly Rates</u>		<u>Monthly Rates</u>		<u>Monthly Rates</u>	
	<u>USOC</u>	<u>Fixed</u>	<u>Per Mile</u>	<u>Fixed</u>	<u>Per Mile</u>	<u>Fixed</u>	<u>Per Mile</u>
0 - <21	1L5XW/1L5	\$ 48.00	\$19.00	\$ 45.00	\$18.00	\$ 43.00	\$17.00
21 - <41	1L5XW/1L5	96.00	19.00	90.00	18.00	86.00	17.00
41 - <61	1L5XW/1L5	144.00	19.00	135.00	18.00	129.00	17.00
61 - <80	1L5XW/1L5	192.00	19.00	180.00	18.00	172.00	17.00

(5) Video Pricing Plan (VPP) (Cont'd)

(A) Serial Component Video Service (SCVS) (Cont'd)

(3) Optional Features and Functions

	<u>USOC</u>	<u>1 Year Monthly Rate</u>	<u>3 Year Monthly Rate</u>	<u>5 Year Monthly Rate</u>
(a) Virtual Studio	27VSM/27VS+	\$95.00	\$90.00	\$85.00
(b) Video Access Gateway - Dedicated	BCSWG	N/A	1,200.00	1,200.00

	<u>USOC</u>	<u>Nonrecurring Charge</u>
Virtual Studio	27VSM	\$500.00 ⁽¹⁾
Video Gateway-Dedicated	BCSWG	0.00

(c) Optical, Wavelength and Ethernet Handoff Options and Interfaces

	<u>USOC</u>	<u>Monthly</u>	<u>1 Year</u>	<u>3 Year</u>	<u>5 Year</u>	<u>Nonrecurring Charge⁽¹⁾</u>
-OC-3 Handoff	VOF3X/ VOF32	\$750.00	\$650.00	\$300.00	\$275.00	\$700.00
-OC-12 Handoff	VOF1X/ VOF12	\$1,675.00	\$1,450.00	\$675.00	\$625.00	\$700.00
-OC-48 Handoff	VOF4X	\$1,675.00	\$1,450.00	\$675.00	\$625.00	\$700.00
-2.5Gbps Ethernet/ Wavelength Handoff	VOFAX	\$1,675.00	\$1,450.00	\$675.00	\$625.00	\$700.00
-10Gbps Ethernet Handoff	VOFBX	\$1,675.00	\$1,450.00	\$675.00	\$625.00	\$700.00
-SMPTE 310M Digital Interface	V1F3X/ V1F32	\$400.00	\$350.00	\$315.00	\$300.00	\$500.00
-NTSC Analog Interface	NTSCM/ NTSC+	\$200.00	\$190.00	\$180.00	\$170.00	\$500.00

(d) Diversity Options

-Local Channel Diversity (Per Channel Termination)	CPAMX	\$410.00	\$350.00	\$260.00	\$225.00	N/A
-Alternate Wire Center Diversity (Per Channel Termination)	CPABX	\$660.00	\$570.00	\$420.00	\$360.00	N/A
-Inter-Wire Center Diversity (Per Circuit)	CPAUX	\$290.00	\$250.00	\$180.00	\$150.00	N/A
-Equipment Only Diversity (Per Channel Termination)	CPACX	\$415.00	\$370.00	\$270.00	\$245.00	N/A

⁽¹⁾ Nonrecurring charge is waived when feature is ordered and installed concurrently with associated Channel Termination.

7.5.14 Gigabit Ethernet Metropolitan Area Network (GigaMAN®) ^{(1) (2)}(A) Recurring Charges

		Term Pricing Plan				
	USOC	Monthly Extension	12 Mo.	36 Mo.	60 Mo.	NRC
(1) Local Distribution Channel						
-Per Point of Termination Terminating Bit Rate 1 Gbps						
- All States	TMECS	\$15,582.38	\$3,300.00	\$2,850.00	\$2,500.00	
(2) Interoffice Transport Mileage						
- Fixed						
- All States	1L5XX	\$1,025.18	\$250.00	\$200.00	\$100.00	
- Per Mile 1 Gbps						
- All States	1L5XX	\$512.58	\$125.00	\$100.00	\$75.00	
(3) Repeater -each	VU4	\$10,251.57	\$2,400.00	\$1,150.00	\$850.00	
(4) Diversity Options						
Local Channel Diversity -Per Channel Terminating Bit Rate 1 Gbps						
-All States	CPALX	\$3,075.48	\$750.00	\$750.00	\$750.00	0.00
Inter Wire Center Diversity -Per Circuit Terminating Bit Rate 1 Gbps						
-All States	CPATX	\$2,050.32	\$500.00	\$500.00	\$500.00	0.00
Alternate Wire Center Diversity -Per Channel Termination bit Rate 1 Gbps						
-All States	CPAAX	\$4,920.75	\$1,200.00	\$1,200.00	\$1,200.00	0.00

⁽¹⁾ Effective October 2, 2017, GigaMAN Service is no longer available for new circuits. The Telephone Company no longer accepts orders for adds, moves, changes or new term plans for GigaMAN Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing GigaMAN term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

7.5.14 Gigabit Ethernet Metropolitan Area Network (GigaMAN®) ⁽²⁾ ⁽³⁾(A) Recurring Charges

	USOC	Monthly Extension	12 Mo.	Term Pricing Plan			NRC
				36 Mo.	60 Mo.		
(5) Protection - per GigaMAN® service arranged							
-Equipment Only Protection, per terminating end	CPAEX	\$6,150.95	\$1,375.00	1,050.00	900.00	\$625.00	
-Equipment Plus Alternate Wire Center Path Protection, per terminating end	CPAFX	10,087.55	2,050.00	1,600.00	1,400.00	1,400.00	
-Equipment Plus Channel Termination (Local Channel) Path Protection, per terminating end	CPAGX	8,980.38	1,825.00	1,425.00	1,225.00	1,225.00	
-Inter Wire Center Path Protection, per Circuit	CPAHX	1,947.81	\$375.00	150.00	100.00	625.00	
-Power Protection ⁽¹⁾	VBBGX	2,870.45	625.00	480.00	435.00	475.00	

⁽¹⁾ Power protection rate elements are applicable as set forth in Section 7.2.12(K) (3) (d) of this Guidebook.⁽²⁾ See Page 2 for Service availability information.⁽³⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

(B) Installation and Rearrangement Charges

All States

	USOC	12 Months	36 Months	60 Months
(1) Administrative Charge per Order	ORCMX	\$60.00	\$60.00 ⁽¹⁾	\$60.00 ⁽¹⁾
(2) Design Central Office Connection Charge per circuit	NRMCK	\$230.00	\$230.00 ⁽¹⁾	\$230.00 ⁽¹⁾
(3) Customer Connection Charge per termination	NRBBL	\$1,500.00	\$1,500.00 ⁽¹⁾	\$1,500.00 ⁽¹⁾

⁽¹⁾ The Administrative, Design Central Office Connection and Customer Connection non-recurring charges will be waived for 36 and 60-month terms for new service.

8. Multi-service Optical Network (MON) Ring Service8.1 General Description(A) Basic Service Description

Effective December 10, 2012, new Multi-service Optical Network (MON) Ring Service term plans are no longer available. Following the expiration of their existing term plans, MON Ring Service Customers may continue to purchase service on a month-to-month basis. Customers will be permitted to modify their existing service and will be able to add new circuits to their existing service, but will not be permitted to add new nodes in new locations. Any such new circuits will be subject to, and coterminous with, the Customer's existing term payment plan or term agreement for the service to which they are added.

Multi-service Optical Network (MON) Ring Service is a Special Access Service that provides high volume optical transport utilizing multiplexing technology in a dedicated ring configuration. Multiple data signals are transmitted over the same fiber-optic cable at the same time, using different wavelengths of light, in order to increase the amount of information that can be transferred. Each wavelength represents a transmission channel in the MON Ring system and is protocol independent of every other channel in the system.

Rates and charges for Multi-service Optical Network (MON) Service are set forth in Section 8.4, with the exception of the services provided by the Telephone Company in the Metropolitan Statistical Areas (MSAs) in which the Telephone Company has received Phase II pricing flexibility pursuant to Subpart H of Part 69 of the Commission's Rules. The rates and charges for the Multi-service Optical Network (MON) Service in the MSAs that have received Phase II pricing flexibility are set forth in Section 31.

MON Ring Service allows customers to combine their multiple data signals so they may be amplified and transported over one network. MON Ring Service provides dedicated capacity over a single pair of fiber in two directions that increases capacity without limiting customer-required data interfaces.

The following conditions will apply to MON Ring Service:

- (1) MON Ring Service is only available under a three (3) or five (5) year Term Payment Plan (TPP) for which rates and charges are applicable. When a service is discontinued prior to the expiration of the minimum period, termination charges are applicable for the remaining portion of the minimum period.
- (2) Prior to confirming an order for service, the Telephone Company will provide a proposed route diagram to the customer. Installation will not begin until the customer has accepted the proposed routing by the Telephone Company.

(B) Service Provisioning(1) Manner of Provisioning

MON Ring Service will be offered in two configurations. Customers can purchase MON Ring with growth capacity up to 16-wavelengths or up to 32-wavelengths. The 32-wavelength systems may be provisioned as two 16-wavelength systems sharing common fiber and common equipment. Conversions from 16-wavelength MON Rings to 32-wavelength MON Rings are not available.

Customer provided equipment (CPE) must deliver the data signals for the MON Ring Service transport within the technical specifications for the subscribed data service. Technical specifications can be found in the following Technical Reference Publications:

AM TR-NIS-000100, Ameritech LAN Interconnect Service-Token Ring Interface Specifications
 AM TR-NIS-000104, Ameritech LAN Interconnect Service -CSMA CD Interface Specifications
 AM-TR-NIS-000111, Ameritech OC-3, OC-12, and OC-48 Service Interface Specifications
 AM-TR-TMO-000101, Ameritech Digital Service Transmission Parameters
 AM-TR-TMO-000080, Ameritech Service's Network Channel and Network Channel Interface Codes
 AM-TR-NIS-000096, Ameritech Technical Interfaces Specifications
 AM-TR-NIS-000107, (ESCON™)
 IBM SA22-7202-XX, IBM Documentation (ESCON™)
 IBM SA22-0394-XX
 ANSI X3.T9.3, Fibre Channel (also includes FICON™ and ISC™)
 ANSI/IEEE 802.3, Fast Ethernet
 IEEE 802.3x and z, Gigabit Ethernet
 IEEE 802.3ae
 ANSI/SMPTE 259M, D1 Video

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MON Ring Service provides physical layer transport only. Telephone Company assumes no responsibility for the signals generated by the CPE, or address signaling to the extent the CPE performs addressing. Error detection and correction of data generated by the CPE are the customer's responsibility.

(2) Limitations

- (a) Optical amplifiers and/or regenerators may have to be added to a MON Ring Service subsequent to the initial installation.
- (b) When additional services are added, such installations may cause a service interruption to existing unprotected channels, or a protection switch on protected channels.
- (c) Services with time-delay sensitive protocols have facility length limitations and may affect the design/availability of MON Ring Service. The Telephone Company will work cooperatively with the customer to determine if the desired services can operate between the customers designated premises. These services will not be available on MON Rings nor between nodes where facility length limitations exceed the service specifications described in Sections 8.3(B) (1)&(2).
- (d) Neither electrical interfaces nor optical multiplexing are available with MON Ring Service.

- (e) Conversions from any other lower speed services to MON Ring Service are not available.
- (f) Channel protection may not be available for all interface types.
- (g) A protective channel provides protection for a single channel toward the network. It does not protect the channel against failure towards the customer interface. Protection reduces the maximum individual channel capacity of the system.
- (h) OC-12/-12c, Gigabit Ethernet, Fibre Channel and FICON™ at the 1.0625 Gbps speed may be ordered either on the MON Ring, or as a riding circuit on a Sub-Rate System. Fibre Channel and FICON™ at 2.125 Gbps rates can only be ordered on the MON Ring, and are not available on a Sub-Rate System. OC-12, Gigabit Ethernet, Fibre Channel and FICON™ at 1.0625 Gbps rates when ordered on a Sub-Rate System, are represented by different rate elements than those ordered directly on the MON Ring.
- (i) The Customer must first order the MON Ring Transport System followed by the MON Ring Channels. When ordering certain port interfaces requiring a Sub-Rate System, the customer must first order a MON Ring Channel Sub-Rate System over which these services will be assigned. When Riding Services are ordered on a Sub-Rate System, they are represented by different rate elements than those services ordered directly on the MON Ring.

(3) Allowance for Service Interruptions

An interruption of service will start when an inoperative service is reported to the Telephone Company and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element as described in Section 2.

Any protected service interruptions greater than 2 seconds as a result of a failure on the protected portion of the circuit will result in a credit equal to one month's bill for the individual port-to-port connection involved (This condition does not apply to customers purchasing this service after 08/19/06). If the interruption occurs on an unprotected portion of the circuit, normal terms and conditions for credit allowances will apply as stated in Section 2.

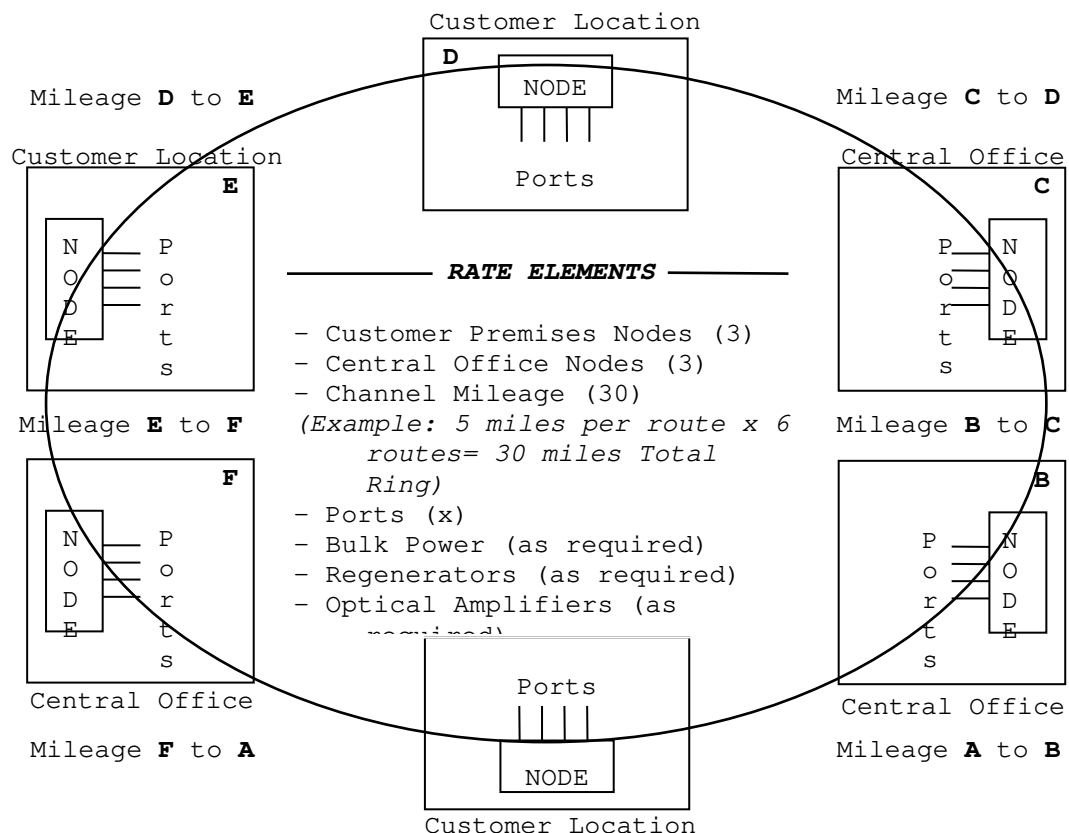
Any protected service interruptions greater than 10 seconds as a result of a failure on the protected portion of the circuit will result in a credit equal to one month's bill for the individual port-to-port connection involved (This condition does not apply to customers purchasing this service before 08/19/06).

(4) MON Ring Configuration

MON Ring Service is available in different ring configurations utilizing central office nodes and customer premises nodes. The total number of circuits and total usable bandwidth to the customer depends upon the mix of services ordered and the specific traffic patterns of the customer. The Telephone Company will determine the appropriate wavelength assignment and the design of the MON Ring.

The minimum configuration would be two nodes at either a serving wire center or a customer premises site. If the nodes are not in a serving wire center, a central office management site for monitoring is required. An optical amplifier located at a serving wire center can be used as a monitoring site.

A combination of these configurations may be used in a network design depending on the customer's traffic pattern.

Diagram of Mon Ring

(C) Responsibility of The Telephone Company

The Telephone Company will provision and maintain MON Ring Service for the customer up to and including the Network Interface (NI).

(D) Responsibility of Customer

The customer is responsible for providing the compatible CPE to be used for the connection to the MON Ring Service.

(E) Service Rearrangements

Service rearrangements are provisioning changes to existing (installed) services which do not result in either a change in the minimum period requirements or a change in the physical location of the point of termination at a customer premises, and will be charged as follows:

- (1) If changing the customer of record, the Administrative Charge will apply. For the changes of customer of record to be treated as a service rearrangement, the new customer must assume liability for both current and prior charges for the service.
- (2) For all other changes not requiring physical work at the central office, or customer premises, including a change in the customer assigned circuit identification or billing account number (when initiated by the customer), the Administrative Charge will apply.
- (3) For all other service rearrangements requiring physical work to be performed, the Administrative Charge will apply. Additionally, one Design and Central Office Connection Charge and one Customer Connection Charge per customer premises node will apply.

8.2 Route Diversity

MON Ring Service is configured with diversely routed fiber whenever possible. Unprotected channels will be lost in the event of a fiber path failure on which the circuit is assigned. Equipment interfaces towards the customer are not protected.

Routing of fiber may be diversified from the customer premises to their serving wire center or alternate serving wire center as determined by the Telephone Company, and where facilities are available, to ensure that loop fibers follow separate paths to the serving wire center or alternate serving wire center. In addition, IOF (interoffice facility) fiber paths may be diversified to ensure that at any serving wire center drop node, the fibers do not egress and ingress at the same location. In cases, where the serving wire center does not have multiple entrance fiber facilities, the section of the fiber from the manhole closest to the serving wire center will be routed within the same duct structure.

At the customer's request, additional protection to the customer premises nodes can be provided via dual entrance facilities. This special request will cause the customer to incur special construction cost. Without this special request, diverse fiber is provided to the manhole closest to the customer premises. The customer or building owner is responsible for providing the conduit.

In the case where dual entrance facilities are not established at the customer premises, collapsed facilities from the customer premises to the building equipment location are not diverse.

8.3 Rate Conditions

(A) Rate Elements

There are nine basic rate elements which apply to the MON Ring Service:

(1) Nonrecurring Charges

These are one-time charges that apply for specific work activities (i.e., installation of new service, moves, and rearrangements of installed services). There are three different nonrecurring charges:

- (a) Administrative Charge - applies any time a customer initiates an order for service. This charge applies once per customer order.
- (b) Design and Central Office Connection Charge - applies once for the initial MON Ring installation, and applies once for each circuit ordered on the MON Ring Service.
- (c) Customer Connection Charge - applies to establish the MON Ring network, and is charged per node. Subsequent installation charges apply to each subsequent shelf installed after the MON Ring network is established.

(2) Customer Premises Node

Provides for the termination of service at the customer's premises and presents the various selected ports to the customer. Applies per customer designated premises, per first shelf and subsequent shelves.

(3) Central Office Node

Provides for the termination of service at a Telephone Company serving wire center. Applies per first shelf and subsequent shelves.

(4) Channel Mileage

Provides for the transmission facilities between the serving wire centers associated with the customer designated premises. The mileage measurement is developed utilizing the V&H coordinate method as set forth in National Exchange Carrier Association, Inc. Tariff, F.C.C. No. 4. A one-mile minimum will be billed between nodes. A two-node ring configuration has a two mile minimum, one mile from the central office node to the customer premises node, and one mile from the customer premises node to the central office node.

(5) Optical Amplifier

Provides for an optical signal boost applies when the distance between nodes exceeds the transmission loss parameters (link loss specific). Optical amplifiers are located at the customer premises node, a central office node, or a serving wire center. Each amplifier provides amplification for up to 16 channels per location (one amplifier per C or L band). Available where facilities and equipment permit (This condition only applies to customers purchasing this service after 08/19/06).

(6) Regenerator

Provides for re-timing, re-shaping, and regeneration when the degradation of the signal exceeds the dispersion and/or optical amplifier noise limits. Applies on a per shelf basis for up to 2.5 Gbps services and on a per circuit basis for up to 10 Gbps service.

(7) Bulk Power

Provides for customer premises node power, which will be required if the customer's power source is AC. Applies once per 4 shelves, with the first shelf and fifth subsequent shelf at each applicable customer premises node.

(8) Port

Provides for the channel interface at any node location for each unprotected or protected channel. Applies per port/per circuit terminating location. Charges will apply at the lower speed circuit level.

(9) Sub-Rate System

Allows for multiple ports, also called riding circuits, on a single wavelength.

(B) MON Ring Connection Capacity

MON Ring Service offers the following port interfaces:

(1) IBM Protocols:

ESCON™ (200 Mbps) - Enterprise Systems Connection. An IBM duplex optical connection used for computer-to-computer data exchange. ESCON™ is limited to a maximum distance of 43 km and actual data throughput is distance sensitive. (Offered as a riding circuit where facilities and equipment permit.)
ETR/CLO™ (8 Mbps - Manchester Encoded) - External Timing References/Control Link Oscillator. This protocol is used for IBM GDPS™ architecture for multiple-location host processors. ETR/CLO™ is limited to a maximum distance of 40 km.

FICON™ (1.0625 and 2.125 Gbps) - A higher-speed evolution of ESCON™, enabling 1 Gbps connectivity among mainframes, storage devices and peripherals. FICON™ is limited to a maximum distance of 100 km and actual data throughput is distance sensitive. (Offered as a riding circuit where facilities and equipment permit.)

ISC-1™ (1.0625 Gbps) - Inter-System Coupling. This protocol is used with IBM GDPS™ architecture for multiple-location host processors. ISC-1™ is limited to a maximum distance of 40 km.

ISC-3™ - ISC-3 links have a peak data rate of 2.125 Gbps and can interconnect IBM™ eServer z900 systems for distances up to 100 km.

(2) Other Protocols:

Fibre Channel (1.0625 and 2.125 Gbps) - an industry standard protocol used to interconnect Storage Area Networks (SANs). Fibre Channel is limited to a maximum distance of 100 km and actual throughput is distance sensitive. (Offered as a riding circuit where facilities and equipment permit.)

Fast Ethernet - a version of Ethernet that allows data transmission rates of 100 Mbps. (Offered as a riding circuit where facilities and equipment permit.)

Gigabit Ethernet⁽¹⁾ - a version of Ethernet that allows data transmission rates of 1 Gbps. (Offered as a riding circuit where facilities and equipment permit.)

10 Gigabit Ethernet (WAN-PHY)⁽¹⁾ - a version of Ethernet that allows data transmission rates of 9.953 Gbps with a WAN-PHY only interface.

10 Gigabit Ethernet (LAN-PHY)⁽¹⁾ - a version of Ethernet that allows data transmission rates of 10.3125 Gbps with a LAN-PHY only interface.

D1 Video - uncompressed digital video signal operating at 270 Mbps. (Offered as a riding circuit where facilities and equipment permit.)

(1) These port interfaces are available at both the customer premises node and the central office node. All other port interfaces are available only at the customer premises node.

Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System (2:1)- provides a multiplexing system which allows customers to put up to two Gigabit Ethernet (GigE) Channels or up to two 1.0625 Gbps Fibre Channels or up to two 1.0625 Gbps FICON™ Channels, or any combination thereof, totaling two channels on the Sub-Rate System. Gigabit Ethernet, 1.0625 Gbps Fibre Channel and 1.0625 Gbps FICON™ protocols are defined in Section 12.2(A). Fibre Channel and FICON™ at 2.125 Gbps rates cannot be placed on this sub-rate system.

ESCON™ Sub-Rate System (8:1)- provides a multiplexing system which allows customers to put up to eight ESCON™ Channels (no other protocol) on one port card, (ESCON™ protocol is defined in Section 12.2(A)) and is available where facilities and equipment permit.

SONET OC-3/OC-3c/OC-12/OC-12c Sub-Rate System (4:1)- provides a multiplexing system which allows customers to put up to either four OC-3/OC-3c signals and/or four OC-12/OC-12c combinations thereof on one card. This sub-rate multiplexing system will have independent timing which allows multiple OC-3/OC-3c services and/or OC-12/OC-12c services on one Sub-Rate card, and is available where facilities and equipment permit.

SONET OC-3/OC-3c* - provides a fiber-based 155.52 Mbps synchronous optical full duplex data transmission capability. (Offered as a riding circuit where facilities and equipment permit.)

SONET OC-12/OC-12c* - provides a fiber-based 622.08 Mbps synchronous optical full duplex data transmission capability.

SONET OC-48/OC-48c* - provides a fiber-based 2488.32 Mbps synchronous optical full duplex data transmission capability.

SONET OC-192/OC-192c* - provides a fiber-based 9953.28 Mbps synchronous optical full duplex data transmission capability.

Digital Video Broadcasting (DVB-ASI) - provides an 1310 nm optical interface at 270 Mbps. (Offered as a riding circuit where facilities and equipment permit.)

Sub-Rate System - provides a multiplexing system operating at 1.25 Gbps with 4 ports. Applicable to ESCON™, Fast Ethernet, DVB-ASI, D1 Video and OC-3/OC-3c port interfaces. *Sub-Rate multiplexing is offered at the serving wire-center only for OC-3/OC-3c. (Available where facilities and equipment permit.)

SONET OC-48/OC-48c* Sub-Rate System 4:1 - provides a multiplexing system which allows customers to put up to four (4) OC-48 signals on one port card. (Available where facilities and equipment permit.)

* These port interfaces are available at both the customer premises node and the central office node. All other port interfaces are available only at the customer premises node.

(C) Term Pricing Plan(1) General Description

MON Ring Service Term Pricing Plan (TPP) provides the customer with discounted rates for a three or five year term period. During the length of the selected TPP, monthly rates for service ordered under the plan will automatically change (increase or decrease), as Telephone Company initiated rate changes become effective. However, under no circumstances will any rate change cause the monthly rate for the service to exceed the rate that was in effect at the beginning of the selected TPP. The Telephone Company will notify customers participating in a TPP when monthly rates are increased or decreased. When customer's term agreement expires, if customer does not subscribe to a new service or choose to disconnect service, the customer's service will automatically convert to monthly extension rates.

(2) TPP Renegotiations

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

- (a) The minimum period for the new TPP must be equal to or of greater duration than the remaining period of the existing TPP.
- (b) The renegotiated TPP will be based on the current rates.

(3) Additions

Any MON Ring rate elements (as shown in Section 8.4) added to the existing service configuration after the expiration of 25 months of a 36 month TPP term, or 42 months of a 60-month TPP term, will be billed under the monthly extension rates.

(4) Termination of Service

Customer requesting termination of service prior to the expiration date of the TPP for any reason will be liable for a termination charge, which is calculated as follows:

Billing Period	Termination Percentage
3 Year	75%
5 Year	60%
(Monthly Recurring Rates) X (Months Remaining in Billing)	(Termination Percentage)

Example:

A MON Ring Customer with \$50,000 monthly rate terminates service after 2 years with 1 year (12 months) remaining in a 3 year TPP. The termination liability would be calculated as:

$$\$50,000 \times 12 \times .75 = \$450,000.00$$

(5) Moves

If during the duration of the TPP, the customer wishes to rearrange or move a customer premises node, a termination charge will apply.

8.4 Rates and Charges(A) Nonrecurring Charges

	<u>USOC</u>	<u>Nonrecurring Charge</u>
(1) Administrative Charge - per customer order	ORCMX	\$125.00
(2) Design and Central Office Connection Charge - per network and per riding circuit	NRMCK	600.00
(3) Customer Connection Charge (Service Establishment) - per node	NRBBL	7,500.00
(4) Customer Connection Charge (Subsequent Installation) - per subsequent shelf	NHCNL	1,000.00

(B) Recurring Charges

	<u>USOC</u>	<u>Monthly Rates</u>		<u>Monthly Extension</u>
		<u>3 Year</u>	<u>5 Year</u>	
(1) Customer Premises Node (includes first shelf)	F2ND1	\$7,800.00	\$6,240.00	\$10,920.00

	<u>USOC</u>	<u>Monthly Rates</u>		<u>Monthly Extension</u>
		<u>3 Year</u>	<u>5 Year</u>	
(2) Customer Premises				
Node				
- per subsequent shelf	F2NDS	5,850.00	4,680.00	8,190.00
(3) Central Office Node (includes first shelf)	F2NC1	7,800.00	6,240.00	10,920.00
(4) Central Office Node - per subsequent shelf	F2NCS	5,850.00	4,680.00	8,190.00
(5) Channel Mileage - per V-H mile or fraction thereof (2 mile min.)	1YAZX	325.00	260.00	455.00
(6) Optical Amplifier				
- C band (per location)	67QXX	5,400.00	3,600.00	7,600.00
- L band (per location)	67QSX	5,400.00	3,600.00	7,600.00
(7) Regenerator - (as required)				
-up to 2.5 Gbps (per shelf)	V8RXX	7,500.00	5,000.00	10,500.00
-up to 10 Gbps (per circuit)	V8R2C	15,000.00	10,000.00	21,000.00
(8) Bulk Power				
-per first shelf, for shelves 1 thru 4	CBVDX	2,000.00	1,600.00	2,600.00
(9) Bulk Power				
-per fifth subsequent shelf for shelves 5 thru 8	CBVDS	1,600.00	1,300.00	2,100.00

(C) Ports-per port/per circuit
terminating location

	<u>USOC</u>	<u>Monthly Rates</u>		<u>Monthly Extension</u>
		<u>3 Year</u>	<u>5 Year</u>	
(1) ETR/CLO™ - unprotected channel	POYKW	\$975.00	\$750.00	\$1,400.00
(2) FICON™ (1.0625 Gbps)				
- unprotected channel	POYMW	975.00	750.00	1,400.00
- protected channel	POYMP	1,950.00	1,500.00	2,800.00

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	<u>USOC</u>	<u>Monthly 3 Year</u>	<u>Rates 5 Year</u>	<u>Monthly Extension</u>
(3) FICON™ (2.125 Gbps)				
- unprotected channel	POYWW	1,700.00	1,300.00	2,400.00
- protected channel	POYWP	3,400.00	2,600.00	4,800.00
(4) ISC-1™				
- unprotected channel	POYJW	1,800.00	1,250.00	2,500.00
-protected channel	POYJP	3,600.00	2,500.00	5,000.00
(5) ISC-3™				
-unprotected channel	POY9W	3,750.00	2,500.00	5,000.00
-protected channel	POY9P	7,500.00	5,000.00	10,000.00
(6) Fibre Channel (1.0625 Gbps)				
- unprotected channel	POYNW	1,200.00	900.00	1,700.00
- protected channel	POYNP	2,400.00	1,800.00	3,400.00

-per port/per circuit
terminating location

	<u>USOC</u>	<u>Monthly 3 Year</u>	<u>Rates 5 Year</u>	<u>Monthly Extension</u>
(7) Fibre Channel (2.125 Gbps)				
-unprotected channel	POYYW	\$1,700.00	\$1,300.00	\$2,400.00
-protected channel	POYYP	3,400.00	2,600.00	4,800.00
(8) Gigabit Ethernet				
- unprotected channel	POYLW	1,200.00	900.00	1,700.00
- protected channel	POYLP	2,400.00	1,800.00	3,400.00
(9) 10 Gigabit Ethernet (WAN-PHY)				
- unprotected channel	POYTW	15,000.00	12,500.00	21,000.00
- protected channel	POYTP	20,000.00	16,700.00	28,000.00

	<u>USOC</u>	<u>Monthly Rates</u>		<u>Monthly Extension</u>
		<u>3 Year</u>	<u>5 Year</u>	
(10) 10 Gigabit Ethernet (LAN-PHY)				
- unprotected channel	POYUW	15,375.00	12,815.00	21,525.00
- protected channel	POYUP	20,500.00	17,120.00	28,700.00
(11) SONET OC-12/OC-12c				
- unprotected channel	POYFW	1,300.00	1,000.00	1,900.00
- protect channel	POYFP	2,600.00	2,000.00	3,700.00
(12) SONET OC-48/48c				
- unprotected channel	POYGW	4,400.00	3,700.00	6,000.00
- protected channel	POYGP	6,600.00	5,560.00	9,000.00
(13) SONET OC-192/192c				
- unprotected channel	POYOW	15,000.00	12,500.00	21,000.00
- protected channel	POYOP	20,000.00	16,700.00	28,000.00
-per port/per circuit terminating location				
	<u>USOC</u>	<u>Monthly Rates</u>		<u>Monthly Extension</u>
		<u>3 Year</u>	<u>5 Year</u>	
(14) Sub-Rate System ^{/3/}				
- unprotected channel	POYSW	\$1,300.00	\$1,000.00	\$1,900.00
- protected channel	POYSP	2,600.00	2,000.00	3,700.00
(15) ESCON Riding Circuit ^{TM/1//2//3/}				
- unprotected channel	POYHW	100.00	100.00	150.00
- protected channel	POYHP	100.00	100.00	150.00
(16) Fast Ethernet Riding Circuit ^{/2//3/}				
- unprotected channel	POYCW	325.00	250.00	500.00
- protected channel	POYCP	500.00	400.00	800.00
(17) D1 Video Riding Circuit ^{/2//3/}				
- unprotected channel	POYVW	100.00	100.00	150.00
- protected channel	POYVP	100.00	100.00	150.00

/1/ ESCONTM, ETR/CLOTM, FICONTM, ISC-1TM, ISC-3TM and GDPSTM are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

/2/ Available only when ordered with Sub-Rate System or ESCONTM Sub-Rate System.

/3/ Available only where facilities and equipment permit. This condition only applies to customers purchasing this service after 08/19/06.

	<u>USOC</u>	<u>Monthly 3 Year</u>	<u>Rates 5 Year</u>	<u>Monthly Extension</u>
(18) DVB-ASI Riding Circuit ^{/4/}				
- unprotected channel	PWY5W	100.00	100.00	150.00
- protected channel	PWY5P	100.00	100.00	150.00
(19) SONET OC-3/OC-3c Riding Circuit ^{/3//4/}				
- unprotected channel	POYEW	100.00	100.00	150.00
- protected channel	POYEP	100.00	100.00	150.00
(20) GigE/FC/FICON ^{TM/1/} Sub-Rate System				
- unprotected channel	POY1W	875.00	700.00	1,140.00
- protected channel	POY1P	1,750.00	1,400.00	2,280.00
(21) GigE Riding Circuit ^{/5/}				
- unprotected channel	POY4W	500.00	400.00	650.00
- protected channel	POY4P	1,000.00	800.00	1,300.00
(22) Fibre Channel Riding Circuit ^{/5/}				
- unprotected channel	POY6W	500.00	400.00	650.00
- protected channel	POY6P	1,000.00	800.00	1,300.00
-per port/per circuit terminating location				
	<u>USOC</u>	<u>Monthly 3 Year</u>	<u>Rates 5 Year</u>	<u>Monthly Extension</u>
(23) FICON ^{TM/1//2/} Riding Circuit				
- unprotected channel	POY7W	400.00	320.00	480.00
- protected channel	POY7P	800.00	640.00	960.00
(24) ESCON ^{TM/1//4/} Sub-Rate System				
- unprotected channel	POY2W	1,500.00	1,125.00	1,950.00
- protected channel	POY2P	3,000.00	2,250.00	3,900.00
(25) OC-3/OC-3c and OC-12/OC-12c ^{/4/} Sub-Rate System				
- unprotected channel	POY3W	1,000.00	750.00	1,300.00
- protected channel	POY3P	2,000.00	1,500.00	2,600.00
(26) OC-12/OC-12c ^{/3//4/} Riding Circuit				
- unprotected channel	POY5W	500.00	375.00	700.00
- protected channel	POY5P	1,000.00	750.00	1,400.00
(27) DVB-ASI				
-unprotected channel	POY8W	2,100.00	1,650.00	3,075.00
-protected channel	POY8P	4,200.00	3,300.00	5,775.00
(28) ESCON ^{TM/4/}				
-unprotected channel	PWY1W	1,300.00	1,000.00	1,900.00
-protected channel	PWY1P	2,600.00	2,000.00	3,700.00
(29) Fast Ethernet ^{/4/}				
-unprotected channel	PWY2W	1,300.00	1,000.00	1,900.00
-protected channel	PWY2P	2,600.00	2,000.00	3,700.00

/1/ ESCONTM, ETR/CLOTM, FICONTM, ISC-1TM, ISC-3TM and GDPSTM are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

/2/ Available only when ordered with GigE/FC/FICON^{TM/1/} Sub-Rate System.

/3/ Available only when ordered with Sub-Rate System or OC-3/OC-12 Sub-Rate System.

/4/ Available only where facilities and equipment permit. This condition only applies to customers purchasing this service after 08/19/06.

/5/ Available only when ordered with an OC-48 Sub-Rate System.

		<u>Monthly Rates</u>		<u>Monthly</u>
		<u>3 Year</u>	<u>5 Year</u>	<u>Extension</u>
	<u>USOC</u>			
(30) D1 Video				
-unprotected channel	PWY3W	1,300.00	1,000.00	1,900.00
-protected channel	PWY3P	2,600.00	2,000.00	3,700.00
(31) SONET OC-3/OC-3c ^{/1/}				
-unprotected channel	PWY4W	1,300.00	1,000.00	1,900.00
-protected channel	PWY4P	2,600.00	2,000.00	3,700.00
(32) OC-48/OC-48c SONET Sub-Rate System 4:1 ^{/1/}				
-unprotected channel	POYRW	3,500.00	2,750.00	4,250.00
-protected channel	POYRP	7,000.00	5,500.00	8,500.00
(33) SONET OC-48 ^{/1/} Riding Circuit				
-unprotected channel	POYZW	1,900.00	1,200.00	2,800.00
-protected channel	POYZP	3,800.00	2,400.00	5,600.00

/1/ Available only where facilities and equipment permit. This condition only applies to customers purchasing this service after 08/19/06.

Section not in use.

10. Federal Government Specialized Services and Arrangements10.8 Service Descriptions10.8.1 Types and Descriptions(H) Federal Access Solutions Transport (FAST)
Program(1) General Description

This section contains conditions, rates and charges applicable to the provision of the FAST Program to any customer awarded a contract to provide telecommunications services for the exclusive use of the Federal Government, Agencies of the Federal Government, or authorized agents of the Federal Governments. The FAST Program will allow each of the Federal Government's authorized contractors providing network services under contract to obtain discounted rates for specified services in return for certain term commitments for dedicated Special Access connections to government locations.

(2) Services Available Under the FAST Program

The FAST Program is provided as a monthly service arrangements with a 3-year service period for the following Services listed below:

Service	General/Basic Description
GigaMAN	Part 7, Section 7.2.12
MON Ring	Part 7, Section 8.1
Optical Carrier Network (OCN) Point-to-Point Service	Part 7, Section 32.1

(3) Limitations

- (a) Not in use
- (b) Nonrecurring Charges including the Access Order Charge for the appropriate tariff or Guidebook sections will apply.
- (c) When a rate element is ordered under the FAST Program, that rate element may not be used for non-FAST Program services. Rate elements not included in this plan are not available under the FAST Program and must be purchased from the appropriate tariff or Guidebook.
- (d) During the term of the selected FAST Program, telephone company initiated recurring rate changes (increases or decreases) will automatically be applied to the monthly charges for the remaining months of the current FAST Program term.
- (e) The monthly recurring rate during the FAST Program term will never exceed the rate in effect at the beginning of the customer FAST Program term.
- (f) The FAST Program cannot be combined with any other tariffed or Guidebook services, discounts, or pricing flexibility contracts, unless explicitly stated in the respective terms and conditions.
- (g) Services receiving term discounts under this plan are excluded from any application of Shared Use provisions in Part 7, Section 7.

(4) Terms and Conditions

(a) Conversions of FGTS Service to a new FAST Program

Conversions from FGTS to a new 3-year FAST Program term may be made if the expiration date for the new 3-year FAST Program term is beyond the expiration of the original FGTS being converted and will become effective upon completion of the conversion activity. The rates, terms, and conditions applicable for the new 3-year FAST Program term will be those in effect at the time the conversion is completed. Access Order Charge will apply for conversions of existing FGTS to a new 3-year FAST Program term.

(b) Conversions of existing FAST Program services to a different FAST Program term

At any time prior to the expiration of the FAST Program term, if the FAST Program has not been grandfathered, a conversion may be made to a new 3-year FAST Program term. The FAST Program term must occur between the same two termination points as the original service being converted and will become effective upon completion of the conversion activity. The rates, terms, and conditions applicable for the new 3-year FAST Program term will be those in effect at the time the conversion is completed. Access Order Charge will apply for the conversion of an existing FAST Program term to a new 3-year FAST Program.

(c) Upgrading an existing FAST Program to a Higher Speed Service

At any time during the FAST Program term, service may be upgraded to a higher speed service. The new higher speed service must occur between the same two termination points as the original service being upgraded. The new higher speed service must be on a new term contract that has an expiration date beyond the expiration date of the FAST Program term being terminated. The rates, terms, and conditions applicable for the new contract term of the higher speed service will be those in effect at the time the conversion is completed. Nonrecurring installation and ordering charges associated with the higher speed service are applicable.

(d) Conversions from existing Month-to-Month Upgrades

Customers may convert from existing month-to-month service to a new 3-year FAST Program term. If there are no physical changes to service, the Access Order Charge will apply. If physical changes occur, the activity would be classified as a termination of the month-to-month service and installation of a new 3-year FAST Program term. Customer will be responsible for all nonrecurring installation and ordering charges associated with the new FAST Program term.

(e) Not in use

(H) Federal Access Solutions Transport (FAST)
Program (Cont'd)

(5) Termination Liability

When a FAST customer's disconnection is governed by the Federal Acquisition Regulations, then the termination provisions found in the Federal Acquisition Regulations apply.

When a FAST customer's disconnection is not governed by the termination provisions of the Federal Acquisition Regulations, a termination charge will be calculated as follows:

(Monthly Recurring FAST rate) X (number of net terminated FAST circuits subject to Termination Charges) X (months remaining in FAST term) X (50.00%).

(6) Expiration of the FAST Program

The FAST Program term is not available for renewal. At the expiration of the FAST Program term, the customer may select a new FAST Program term at the prevailing FAST Program rates. If a customer does not wish to purchase a new FAST Program term at the expiration of the term, the customer's service will automatically convert to the current month-to-month or monthly extension rates found in the appropriate tariff or Guidebook section.

10.8.2 Rates and Charges

(C)Gigabit Ethernet Metropolitan Area Network (GigaMAN)	USOC	3-Year
Local Distribution Channel-per Point of Termination-1gbps	TMECS	\$ 2,500.00
Interoffice Transport Mileage-fixed	1L5XX	100.00
Interoffice Transport Mileage-per Mile	1L5XX	75.00
Repeater-each	VU4	850.00
Diversity Options-		
Local Channel Diversity-per Channel Terminating Bit Rate-1 gbps	CPALX	625.00
Inter Wire Center Diversity-per Channel Terminating Bit Rate	CPATX	375.00
Alternate Wire Center Diversity-per Channel Termination Bit Rate-1 gbps	CPAAX	1,075.00
For GigaMAN Installation and Rearrangement Charges, rates in Part 7, Sections 7 and 31 are applicable		

(D)Multi-service Optical Network (MON) Ring Service	USOC	3-Year
Customer Premise Node (incl. 1st shelf)	F2ND1	\$ 6,240.00
Customer Premise Node (per subsequent shelf)	F2NDS	4,680.00
Central Office Node (incl. 1st shelf)	F2NC1	6,240.00
Central Office Node (incl. subsequent shelf)	F2NCS	4,680.00
Channel Mileage-per Mile (two mile minimum)	1YAZX	260.00
Optical Amplifier		
-C Band (per location)	67QXX	3,600.00
-L Band (per location)	67QSX	3,600.00
Regenerator (as required)		
-up to 2.5 Gbps (per shelf)	V8RXX	5,000.00
-up to 10 Gbps (per circuit)	V8R2C	10,000.00
Bulk Power		
-per first shelf (for shelves 1 thru 4)	CBVDX	1,600.00
-per fifth subsequent shelf (for shelves 5 thru 8)	CBVDS	1,300.00

(D)Multi-service Optical Network (MON) Ring Service (Cont'd)		
PORTS-per port/per circuit terminating location	USOC	3-Year
(1)ETR ^{/1/™} -unprotected channel	POYKW	\$ 750.00
(2)FICOM ^{/1/™} (1.0625 Gbps)		
-unprotected	POYMW	750.00
-protected	POYMP	1,500.00
(3)FICON ^{/1/™} (2.125 Gbps)		
-unprotected	POYWW	1,300.00
-protected	POYWP	2,600.00
(4)ISC ^{/1/™} -unprotected channel	POYJW	1,250.00
(5)Fibre Channel (1.0625 Gbps)		
-unprotected	POYNW	900.00
-protected	POYNP	1,800.00
(6)Fibre Channel (2.125 Gbps)		
-unprotected	POYYW	1,300.00
-protected	POYYP	2,600.00
(7)Gigabit Ethernet		
-unprotected	POYLW	900.00
-protected	POYLP	1,800.00
(8) 10 Gigabit Ethernet (WAH-PHY)		
-unprotected	POYTW	12,500.00
-protected	POYTP	16,700.00
(9)10 Gigabit Ethernet (LAN-PHY)		
-unprotected	POYUW	12,815.00
-protected	POYUP	17,120.00
(10)SONET OC-12/OC-12		
-unprotected	POYFW	1,000.00
-protected	POYFP	2,000.00
(11)SONET OC-48/48C		
-unprotected	POYGW	3,700.00
-protected	POYGP	5,560.00
(12)SONET OC-192/OC-192		
-unprotected	POYOW	12,500.00
-protected	POYOP	16,700.00
(13)Sub-Rate System		
-unprotected	POYSW	1,000.00
-protected	POYSP	2,000.00

^{/1/}Escon™, ETR™, FICON™, ISC™ and GDPS™ are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

(D) Multi-service Optical Network (MON) Ring Service (Cont'd)	USOC	3-Year
PORTS-per port/per circuit terminating location		
(14) SONET OC-3/OC-3 ⁽³⁾		
-unprotected	POYEW	100.00
-protected	POYEP	100.00
(15) ESCON TM ⁽¹⁾		
-unprotected	POYHW	100.00
-protected	POYHP	100.00
(16) Fast Ethernet ⁽¹⁾		
-unprotected	POYCW	250.00
-protected	POYCP	400.00
(17) D1 Video ⁽¹⁾		
-unprotected	POYVW	100.00
-protected	POYVP	100.00
(18) GigE/FC/FICON TM ⁽¹⁾ /Sub-Rate Sytem		
-unprotected	POY1W	700.00
-protected	POY1P	1,400.00
(19) GigE Riding Circuit ⁽²⁾		
-unprotected	POY4W	400.00
-protected	POY4P	800.00
(20) Fibre Channel Riding Circuit ⁽²⁾		
-unprotected channel	POY6W	400.00
-protected channel	POY6P	800.00
(21) FICON TM ⁽¹⁾ /Riding Circuit ⁽²⁾		
-unprotected channel	POY7W	320.00
-protected channel	POY7P	640.00
(22) ESCON TM ⁽¹⁾ /Sub-Rate System		
-unprotected channel	POY2W	1,125.00
-protected channel	POY2P	2,250.00
(23) OC-3/OC-12 Sub-Rate System		
-unprotected	POY3W	750.00
-protected	POY3P	1,500.00
(24) OC-12 Riding Circuit ⁽³⁾		
-unprotected	POY5W	375.00
-protected	POY5P	750.00
For MON Ring Service Nonrecurring Charges, rates in Part 7, Sections 8 and 31 are applicable		

^{/1}/EsconTM, ETRTM, FICONTM, ISCTM and GDPSTM are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

(1) Available only when ordered with Sub-Rate System or ESCONTM Sub-Rate System

(2) Available only when ordered with Gig/FC/FICONTM Sub-Rate System

(3) Available only when ordered with Sub-Rate System or OC-3/OC-12 Sub-Rate System

(E) Optical Carrier Network (OCN) Point-to-Point Service		
OC-3 Point-to-Point Service		
(1) Local Distribution Channel		
- per point of termination	TMECS	\$ 1,050.00
(2) Interoffice Transport - Mileage		
- per mile	1L5XX	200.00
- Fixed	1L5XX	750.00
(3) Optional Features & Functions		
(a) OC-3 Add/Drop Multiplexing		
- per arrangement	MPECX	775.00
(b) Add/Drop Function		
- per DS3	MXJBX	120.00
- per DS1	MXJAX	50.00
(c) 1 + 1 Protection		
- per OC3/OC3 LDC	P8T	57.00
(d) 1 + 1 Protection with Cable Survivability ⁽¹⁾		
- per OC3/OC3 LDC	P3S	57.00
(e) 1 + 1 Protection with Route Survivability ⁽¹⁾		
(1) - per OC3/OC3 LDC	P8T	Apply Rates as P8T Above Plus (2) below
(2) - per Quarter Route Mile	S2DXY	48.50
OC-12 Point-to-Point Service		
(1) Local Distribution Channel		
- per point of termination	TMECS	2,470.00
(2) Interoffice Transport - Mileage		
- per mile	1L5XX	200.00
- Fixed	1L5XX	1,100.00
(3) Optional Features & Functions		
(a) OC-12 Add/Drop Multiplexing		
- per arrangement	MPEDX	1,925.00
(b) Add/Drop Function		
- per DS3	MXJBX	120.00
- per OC3	MXJCX	150.00
(c) 1 + 1 Protection		
- per OC12/OC12 LDC	P8T	250.00
(d) 1 + 1 Protection with Cable Survivability ⁽¹⁾		
- per OC12/OC12 LDC	P3S	250.00
(e) 1 + 1 Protection with Route Survivability ⁽¹⁾		
(1) - per OC12/OC12 Channel	P8T	Apply Rates as P8T Above Plus (2) below
(2) - per Quarter Route Mile	S2DXY	51.00
⁽¹⁾ Not available for OCN Point-to-Point Service originating or termination within a Telephone Company Location.		
OCN Point-to-Point Nonrecurring Charges are listed in Guidebook Part 7, Section 31 and Section 32.		

(E) Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)		
OC-48 Point-to-Point Service		
(1) Local Distribution Channel		
- per point of termination	TMECS	\$ 4,600.00
(2) Interoffice Transport - Mileage		
- per mile	1L5XX	200.00
- Fixed	1L5XX	2,660.00
(3) Optional Features & Functions		
(a) OC-48 Add/Drop Multiplexing		
- per arrangement	MXRFX	3,700.00
(b) Add/Drop Function		
- per DS3	MXJBX	120.00
- per OC3	MXJCX	150.00
- per OC12	MXJEX	375.00
(c) 1 + 1 Protection		
- per OC48/OC48 LDC	P8T	1,175.00
(d) 1 + 1 Protection with Cable Survivability ⁽¹⁾		
- per OC48/OC48 LDC	P3S	1,175.00
(e) 1 + 1 Protection with Route Survivability ⁽¹⁾		
(1) - per OC48/OC48 LDC	P8T	Apply Rates as P8T Above Plus (2) below
(2) - per Quarter Route Mile	S2DXY	60.00
(f) Point-to-Point Regenerator	RGY48	5,280.00
OC-192 Point-to-Point Service		
(1) Local Distribution Channel		
- per point of termination	TMECS	16,800.00
(2) Interoffice Transport - Mileage		
- per mile	1L5XX	300.00
- Fixed	1L5XX	13,000.00
(3) Optional Features & Functions		
(a) OC-192 Add/Drop Multiplexing		
- per arrangement	MXRGX	8,685.00
(b) Add/Drop Function		
- per OC3	MXJCX	150.00
- per OC12	MXJEX	375.00
- per OC48	MXJFX	900.00
(c) 1 + 1 Protection		
- per OC192/OC192 LDC	P8T	2,700.00
(d) 1 + 1 Protection with Cable Survivability ⁽¹⁾		
- per OC192/OC192LDC	P3S	2,700.00
(e) 1 + 1 Protection with Route Survivability ⁽¹⁾		
(1) - per OC192 LDC	P8T	Apply Rates as P8T Above Plus (2) below
(2) - per Quarter Route Mile	S2DXY	150.00
(f) Point-to-Point OC192 Regenerator	RGY	11,000.00
⁽¹⁾ Not available for OCN Point-to-Point Service originating or terminating within a telephone company location		
OCN Point-to-Point Nonrecurring Charges are listed in Guidebook Part 7, Section 31 and Section 32.		

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SECTION 23 - DecaMAN®

23. 10 Gigabit Ethernet Metropolitan Area Network (DecaMAN®) ^{(1) (2)}(A) Basic Channel Description

DecaMAN® is a fiber based, point-to-point, 10 Gigabit Ethernet service that allows customers to transport data signals between local area networks (LANs). DecaMAN® transports data signals at the rate of 10 Gigabits per second (Gbps). All basic service configurations provide a single direction of transmission.

DecaMAN® is available with two different interfaces:

10 Gigabit Ethernet (LAN-PHY) - A version of Ethernet that allows data transmission rates of 10.3125 Gbps with a LAN-PHY only interface.

10 gigabit Ethernet (WAN-PHY) - A version of Ethernet that allows data transmission rates of 9.953 Gbps with a WAN-PHY only interface.

The following conditions will apply to DecaMAN®:

- (1) The Telephone Company considers a service interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this Guidebook when the protective controls applied by the Telephone Company result in the complete loss of service by the customer. An interruption period starts when a customer reports an inoperative service to the Telephone Company and the Telephone Company confirms that continuity has been lost, and ends when the service is operative.

(2) Service Provisioning

- (a) The customer provided equipment (CPE) must deliver the data signals for DecaMAN® transport for the subscribed data service.
- (b) DecaMAN® provides physical layer transport only. The Telephone Company assumes no responsibility for the through transmission of signals generated by the CPE, for the signals by the CPE, or address signaling to the extent the CPE performs addressing. Error detection and correction of data generated by the CPE is the customer's responsibility.
- (c) There are two provisioning options for DecaMAN®:
 - 10 Gigabit Ethernet LAN-PHY, which provides data transmission rates of 10 Gigabits per second with a LAN-PHY interface.
 - 10 Gigabit Ethernet WAN-PHY, which provides data transmission rates of 10 Gigabits per second with a WAN-PHY interface.

(B) Rate Conditions

This section contains the specific conditions governing the rates and charges which may apply to the DecaMAN® Service. The rates and charges in effect at the time the DecaMAN® Service is installed and accepted by the customer are the rates and charges which will be billed to the customer requesting the service. The rates and charges in effect at the time may not be the same as those rates and charges in effect at the time the customer requests the service.

If the Telephone Company initiates rate changes resulting in a decrease of rates for an existing service with a 1, 2, 3, or 5 year term period, those rate changes will be passed along to the customer. Rate changes resulting in an increase of rates for an existing service with a 1, 2, 3, or 5 year term period will not exceed the original rate for that selected term period.

There are 7 basic rate elements, which apply to DecaMAN® service:

(1) Local Distribution Channel (LDC)

Local Distribution Channel (Same as Channel Termination) is the termination of DecaMAN® at a customer designated premise (node), as described in Section 7 of this Guidebook, consisting of the following two elements:

- ⁽¹⁾ Effective October 2, 2017, DecaMAN Service is no longer available for new circuits. The Telephone Company no longer accepts orders for adds, moves, changes or new term plans for DecaMAN Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing DecaMAN term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.
- ⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

(B) Rate Conditions (cont'd)(1) Local Distribution Channel (LDC) (cont'd)

- (a) the termination for the fiber optic facilities at each node and its serving wire center.
- (b) the fiber optic facility between each node and its serving wire center.

(2) Interoffice Mileage

Interoffice Transport facilities, which provide the transmission path between Serving Wire Centers associated with two customer designated premises, are comprised of Fixed and Per Mile rate elements.

(3) Repeater

Repeaters (Circuit Regenerators) provide essential detection and retransmission of DecaMAN® signals. Repeaters are provided as required by the Telephone Company when actual fiber facility loss between customer designated premises and/or central office locations exceed design limits. Repeaters will be located exclusively in Telephone Company central offices and are required for each successive transport segment of approximately 21.4 db.

When protection options are ordered, as set forth in Section 23(K), additional repeaters may be necessary on the protected path as determined by the Telephone Company. The Repeater rate element will be applied to a protected circuit per fiber pair.

(4) Collocation Transport

Collocation Transport provides for the transmission facilities arrangement between a Telephone Company Central Office frame and a collocation frame located in the Telephone Company Central Office.

There are two components of Collocation Transport.

- (a) Inter/Intra Office Fixed
The Inter/Intra office fixed rate element provides for the electronic equipment required to terminate a channel between two collocation arrangements located either in the same central office (intra) or in two separate central offices (inter).
- (b) Inter Office Per Mile
The per mile charge provides for the electronic equipment and facilities necessary to provide the interoffice transport between collocation arrangements.

The following types of Collocation Transport are:

LAN PHY
WAN PHY

In addition to one Collocation Transport charge, two EISCC charges of the same speed from Section 16.7.4 will apply, per collocation arrangement.

(5) Local Channel Diversity

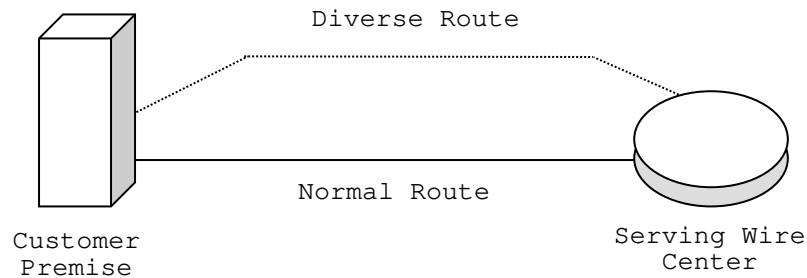
Local Channel Diversity provides for a transmission path between a designated customer premises and the standard service wire center (SWC) that is diverse from the normal/standard transmission path. Local Channel Diversity requires two DecaMAN® services purchased by the same customer of record. With this arrangement, one or more local distribution channels will be provisioned over the standard route, and one or more local distribution channels will be provisioned over the diverse route. Local Channel Diversity does not provide for all diversity, it only allows for diversity from the splice point closest to the customer's property line to the SWC.

⁽¹⁾ See Page 1 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

(B) Rate Conditions (cont'd)(5) Local Channel Diversity (cont'd)

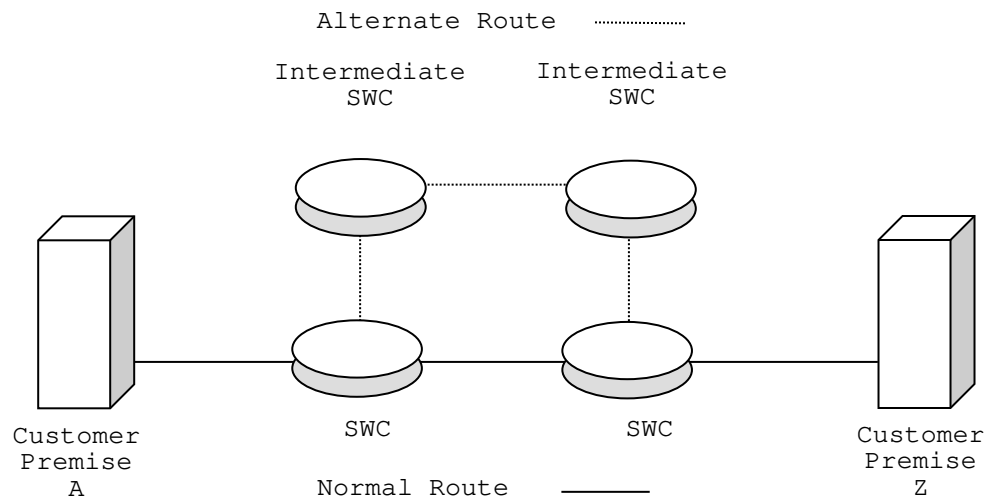
If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premises, at the customer's expense.

(6) Inter-Wire Center (IWC) Diversity

Inter-Wire Center (IWC) Diversity arrangements presume that each end of a DecaMAN® local distribution channel is serviced out of a different serving wire center (SWC). Inter-Wire Center Diversity requires two DecaMAN® services purchased by the same customer of record.

This arrangement provides a transmission path for DecaMAN® local distribution channels between the customer's designated SWC and the SWC at the distant end of the circuit over a transmission path that is separate from the standard transmission path between the two wire centers. IWC diversity does not provide for full diversity. It only offers interoffice diversity. If a customer desires full diversity, Alternate Wire Center Diversity must be implemented along with IWC Diversity. Additionally, arrangements must be made for constructing dual entrance facilities at the customer's premises, at the customer's expense.

- (a) Inter-Wire Center Diversity (IWC) Mileage Measurement
Mileage measurements for Access Services, provisioned via an Inter-Wire Center Diversity, will be based on the diverse routing; i.e. mileage measurements will be calculated between the Intermediate Serving Wire Centers along the circuit path of the diversely routed DecaMAN® service.



⁽¹⁾ See Page 1 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

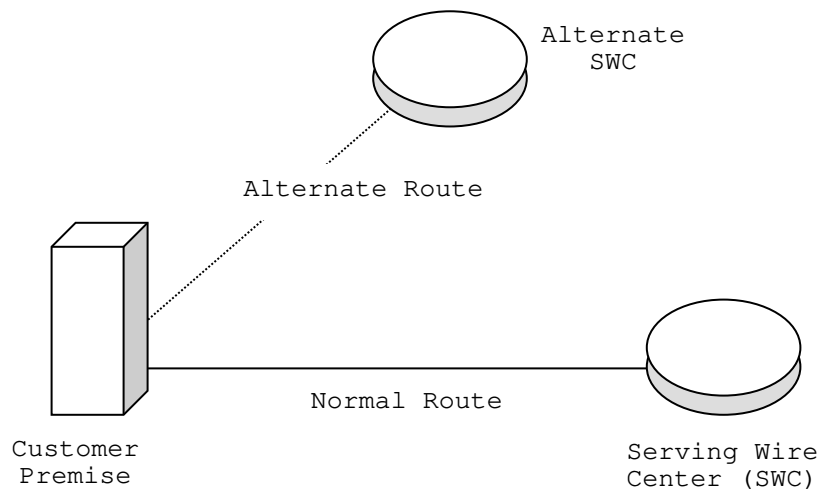
SECTION 23 - DecaMAN®

23. 10 Gigabit Ethernet Metropolitan Area Network (cont'd) (DecaMAN®) ⁽¹⁾ ⁽²⁾(B) Rate Conditions (cont'd)

(7) Alternate Wire Center Diversity

Alternate Wire Center Diversity is for the local loop only. It provides a local channel transmission path for DecaMAN® service between the customer's designated premises and a wire center that is not the normal (or standard) service wire center. The Telephone Company will choose the alternate wire center closest to the customer's designated premises that is capable of providing DecaMAN® service over the alternate route. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premises, at the customer's expense.

If the circuit routed to the alternative wire center has Interoffice Mileage, measurements will be based on the alternate routing; i.e. mileage measurements will be made to the alternate wire center rather than the serving wire center from which the customer designed premises would normally obtain dial tone.

(C) Non-recurring Charges

Non-recurring charges are one-time charges that apply for specific work activity related to the provisioning of DecaMAN® Service, as described in Section 7 of this Guidebook.

(D) Recurring Charges

Recurring Charges are rates that apply each month or fraction thereof that the service is provided. Recurring rates apply to 12-, 24-, 36-, or 60-month term periods under the terms and conditions of a Term Pricing Plan (TPP), as set forth in Section 23(F).

(E) Monthly Extension Rates

Upon completion of a TPP, customer's service will automatically convert to the Monthly Extension Rates unless the customer requests a new TPP.

⁽¹⁾ See Page 1 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

(F) Term Pricing Plan (TPP)

DecaMAN® is available for 12-, 24-, 36-, or 60-month term periods.⁽¹⁾ If the Telephone Company initiates rate changes resulting in a decrease of rates for an existing service with a TPP, those rate changes will be passed along to the customer. Rate changes resulting in an increase of rates for an existing service with a TPP will not exceed the original rate for that selected TPP.

(1) Renewals⁽¹⁾

At the end of a TPP period, the customer must select one of the following options within one month prior to the expiration date:

- (a) Renew the service for a one, two, three, or five year TPP, as provided in this Guidebook;
- (b) Elect to disconnect the service upon expiration of the billing period; or
- (c) Continue the service on a monthly basis at the current Monthly Extension Rates.

All services under an existing TPP that are not renewed within the period stated above will revert to Option (1)(c) above and will be billed at the current Monthly Extension Rates.

(2) Conversions⁽¹⁾

During the customer's TPP, term conversions may be made to a new TPP term of the same or greater length. The expiration date of the new service must be beyond the expiration date of the original TPP term. With the new TPP, the customer incurs no termination liability for the remaining months on the original TPP.

An Administrative Charge is applicable when customers renew or change the length of the TPP term.

(3) Termination Liability

Customers requesting termination of service prior to the expiration date of the TPP term will be liable for a termination charge equal to fifty percent (50%) of the Monthly Recurring Rate for the number of months remaining in the applicable TPP term, which is calculated as follows:

$$(\text{Monthly Recurring Rate}) \times (\text{Months Remaining in TPP term}) \times (50\%) \\ = \text{Termination Liability Charge}$$

Example:

A DecaMAN® customer with a \$18,000.00 monthly rate terminates service after 2 years with 1 year (12 months) remaining in a 3 year TPP. The termination liability charge would be calculated as follows:

$$\$18,000 \times 12 \times .50 = \$108,000.00 \text{ Termination Liability}$$

⁽¹⁾ Effective October 2, 2017, DecaMAN Service is no longer available for new circuits. The Telephone Company no longer accepts orders for adds, moves, changes or new term plans for DecaMAN Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing DecaMAN term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

23. 10 Gigabit Ethernet Metropolitan Area Network (cont'd) (DecaMAN®) ^{(1) (2)}(G) Moves ⁽¹⁾

Moves involve a change in the physical location of one of the following:

- (1) Service rearrangement;
- (2) Point of Termination at the customer's premises; or
- (3) Customer's premises.

Move charges are dependent upon the type of move requested by the customer.

(1) Service Rearrangement

Service rearrangements are changes to existing (installed) services, which do not result in a change in the minimum period requirements, as set forth in Section 5 of this Guidebook.

(2) Moves Within the Same Building

When the move is to a new location within the same building, the Administration charge and Customer Connection charge for the service termination affected will apply. There will be no change in the minimum period requirements, as described in Section 5 of this Guidebook.

(3) Moves to a Different Building

Moves to a different building will be treated as a discontinuance of service; therefore, all nonrecurring charges associated with new service, and new minimum period requirements, as described in Section 5 of this Guidebook, will apply.

(4) DecaMAN® customers subscribing to three (3) and five (5) year Term Pricing Plans may move one end of the DecaMAN® service per the following conditions:

- (a) A customer may move one end of the DecaMAN® service to a different premises in the same LATA without incurring early termination liability charges for their existing DecaMAN® service, providing the following criteria are met, and are contingent upon the availability of fiber from premises to premises.

- (1) Customers must have completed at least 15 months (for 3 year TPP), and 18 months (for 5 year TPP) of their existing DecaMAN® TPP,
- (2) The customer subscribes to a new Term Pricing Plan period that is greater than the remaining months in the existing Term Pricing Plan,
- (3) The billing period revenue for the new service is equal to or greater than the billing period revenue remaining in the service being converted.
- (4) Spare facilities and equipment must be available or special construction charges, as set forth in this Guidebook, shall apply.

The moved service will require a disconnect of the existing DecaMAN® service and placement of an order for the new DecaMAN® service for the same customer of record as disconnected service.

The monthly rates for the new service shall be those rates in effect at the time the new service is installed and requires a disconnect of the existing DecaMAN® service and placement of an order for new DecaMAN® service.

Nonrecurring charges will apply where applicable.

⁽¹⁾ Effective October 2, 2017, DecaMAN Service is no longer available for new circuits. The Telephone Company no longer accepts orders for adds, moves, changes or new term plans for DecaMAN Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing DecaMAN term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

(G) Moves (cont'd)

- (b) If the DecaMAN® service was installed with protection options and the customer subsequently requests a move of the channel termination within the same building after installation, a change may be required to the customer premises based Telephone Company equipment, which will be determined by the Telephone Company. Nonrecurring charges, as set forth in Section 23(C), are applicable (one-half the nonrecurring charge per channel termination). With this upgrade the customer will experience an out of service condition.

(H) Mileage Measurement

(1) Standard Two-Fiber Circuit

The mileage is calculated on the airline distance between the locations involved, i.e. the serving wire centers associated with two customer designated premises and an international boundary point, a serving wire center associated with a customer designated premise and a Telephone Company Hub, a serving wire center associated with a customer designated premise and a WATS Serving Office as described in Section 7 of this Guidebook.

(2) Diversely Routed Circuit

Described in Section 23(B) (6) (a).

(3) Protected Four-Fiber Circuit

For protected DecaMAN® service, mileage charges are applicable on both paths of the protected service. Both Fixed Mileage and Variable Mileage rates will be applied to each fiber path. Mileage measurements for the primary path will be calculated similar to a standard circuit (described in Section 23(H) (1)). Mileage measurements for the secondary path will be based on the additional routing (i.e., mileage measurements will be calculated between the intermediate Wire Centers along the circuit path of the diversity routed DecaMAN® service).

(I) Modification of Access Service

The customer may request a modification of its Access Order at anytime prior to notification by the Telephone Company that service is available for the customer's use. The Telephone Company will make every effort to accommodate a requested modification when it is able to do so with the normal work force assigned to complete such an order within normal business hours.

If the modification cannot be made with the work force during normal business hours, the Telephone Company will notify the customer. If the customer still desires the Access Order Modification, the Telephone Company will schedule a new service date. All charges for Access Order modifications will apply on a per occurrence basis as described in Section 5 of this Guidebook.

⁽¹⁾ See Page 1 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

(J) Optional Features(1) Protection Options

Protection options are provisioned on the customer's DecaMAN® service, and the customer is not required to purchase a second DecaMAN® circuit for protection options. Protection options are applied on a per DecaMAN® circuit basis only.

Protection options are available where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not permit, Special Construction charges, as set forth in this Guidebook may apply. Protection options provide additional levels of reliability to DecaMAN® service. There are multiple protection options offered. The options do not need to be the same, but both Channel Terminations of the DecaMAN® service must include some form of protection for the service to be considered protected.

The Telephone Company will design the protection option based upon the configuration of the customer's DecaMAN® service.

Additional repeaters may be necessary on the protected path as determined by the Telephone Company and set forth in Section 23(B)(3).

If the DecaMAN® service was installed without protection and the customer subsequently requests protection options after the DecaMAN® order has been completed, and customer premises locations remain the same, a change to the customer premises based Telephone Company equipment is required. This change will be treated as an upgrade to the DecaMAN® service, and Installation, Rearrangement and Protection nonrecurring charges are applicable. This change will require a disconnect of the existing DecaMAN® service and placement of an order for the new DecaMAN® service for the same customer of record. With this upgrade the customer will experience a temporary out of service condition.

Protection switching in less than 50 milliseconds will occur on DecaMAN® services with protection options, with the exception of Power Protection, which is not Switch protected. Protection options are offered with a Service Level Agreement (SLA) that targets a service availability of 99.99%. SLAs are not applicable in the event of a cable cut in any unprotected portion of the DecaMAN® service fiber path or when customer requested modifications to the service require down time.

DecaMAN® Protection Options are offered as follows:

- (a) Equipment Only Protection - per Termination Point
- (b) Equipment Plus Fiber Path Protection
 - (1) Equipment Plus Alternate Wire Center Path Protection - per Terminating Point
 - (2) Equipment Plus Channel Termination Path Protection - per Terminating Point
 - (3) Inter Wire Center Path Protection - per Interoffice Segment
- (c) Power Protection

⁽¹⁾ See Page 1 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

(J) Optional Features (cont'd)

(2) Equipment Only Protection

Equipment Only Protection offers one DecaMAN® signal routed on two different fiber pairs that co-exist in the same cable and conduit structure that terminates in two distinct and separate network terminating equipment devices at the customer's premises.

All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, the DecaMAN® equipment will switch the customer's transmission to a dedicated standby path within 50 milliseconds of detection. In the event of a failure to both fiber transmission paths, an out of service condition will result. This form of protection can only be ordered per channel termination for each protected DecaMAN® service, and may also apply to the Inter-Wire center segment if the DecaMAN® service is served by more than one serving wire center.

If a customer requests complete protection extending to the Telephone Company serving wire center from their premises location when utilizing Equipment Protection, they must request diverse entrance facilities into their premises at each end from the nearest Telephone Company splice point closest to the customer premises location. This work is subject to Special Construction charges, as set forth in this Guidebook.

(3) Equipment Plus Fiber Path Protection

Equipment Plus Fiber Path Protection offers varying degrees of path protection for each channel termination of the DecaMAN® service, plus the inter-wire segment if the service is served by more than one serving wire center, and is offered as follows:

(a) Equipment Plus Alternate Wire Center Path Protection

Equipment Plus Alternate Wire Center Path Protection offers one DecaMAN® signal routed over one fiber pair of the protected DecaMAN® service from the customer's premises to the customer's normal serving wire center, and a duplicate DecaMAN® signal routed over a diversely routed fiber pair to the Alternate Wire center selected by the Telephone Company. If any location between the two fiber paths is closer than ten feet, the location will be disclosed to the customer. The customer will determine whether to accept the engineered path or agree to pay Special Construction charges, as set forth in this Guidebook, to provide a completely diverse route.

Where facilities are not available, the customer may select Equipment Only Protection for an inter-office segment. This option can be selected for one or both channel terminations of the DecaMAN® service.

All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, the DecaMAN® service will switch to a dedicated standby path within 50 milliseconds of detection. In the event of failure to both fiber transmission paths, an out of service condition will result. This form of protection can only be ordered per channel termination for each protected DecaMAN® service.

⁽¹⁾ See Page 1 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

(J) Optional Features (cont'd)(3) Equipment Plus Fiber Path Protection (cont'd)(a) Equipment Plus Alternate Wire Center Path Protection (cont'd)

If a customer requests complete protection extending to the Telephone Company serving wire center from their premises location when utilizing Equipment Protection Plus Alternate Wire Center Path Protection, they must request diverse entrance facilities into their premises at each end, from the nearest Telephone Company splice point closest to the customer premise location. This work is subject to Special Construction charges as set forth in this Guidebook.

(b) Equipment Plus Channel Termination Path Protection

Equipment Plus Channel Termination Path Protection offers a duplicate DecaMAN® signal routed over two diversely routed fiber paths to the customer's normal serving wire center.

If any location(s) between two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine whether to accept the engineered path or agree to pay Special Construction charges, as set forth in this Guidebook, to provide a completely diverse route.

All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, DecaMAN® technology will switch the customer's transmission to a dedicated standby path within 50 milliseconds of detection. In the event of failure to both fiber transmission to a dedicated standby path and/or failure to both fiber transmission paths, an out of service condition will result.

This form of protection can only be ordered per Channel Termination for each protected DecaMAN® service from the customer's premises location, or from the manhole/splice point nearest the customer premises to the Telephone Company serving wire center.

If a customer requests complete protection extending to the Telephone Company serving wire center from their premises location when utilizing Equipment Protection Plus Channel Termination Path Protection, they must request diverse entrance facilities into their premises at each end from the nearest Telephone Company splice point closest to the customer premises location. This work is subject to Special Construction charges as set forth in this Guidebook.

(c) Inter-Wire Center Path Protection

Inter-Wire Center Path Protection offers a duplicate DecaMAN® signal routed over two diversely routed fiber paths between the two serving wire centers or alternate wire centers. Path protection starts at the nearest manhole outside the Telephone Company serving wire center. Inter Wire Center Path Protection must be ordered with either Equipment Only, Channel Termination Path Protection or Alternate Wire Center Path Protection.

If any location(s) between the two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine whether to accept the engineered path or agree to pay Special Construction charges, as set forth in this Guidebook, to provide a completely diverse route.

⁽¹⁾ See Page 1 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

(J) Optional Features (cont'd)(3) Equipment Plus Fiber Path Protection (cont'd)(c) Inter-Wire Center Path Protection (cont'd)

All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, DecaMAN® technology will switch the customer's transmission to a dedicated standby path within 50 milliseconds of detection. In the event of failure to both fiber transmission paths, an out of service condition will result.

(d) Power Protection

Power Protection provides DecaMAN® customers with battery backup for up to eight (8) hours to maintain DecaMAN® equipment in the event of a commercial AC power failure.

Power Protection is offered on a per equipment bay capacity basis, per customer premises, and is dependent upon the number of DecaMAN® services for the DecaMAN® customer of record. The Telephone Company will apply the power protection rate elements based upon the circuit capacity. More than one rate element may be applicable. The Telephone Company will determine the design and engineering requirements for Power Protection for DecaMAN® customers.

Customers in multi-tenant buildings will require separate equipment and bays dedicated to each customer. The addition of Power Protection to existing DecaMAN® service may result in temporary service interruption. Power Protection is not available for installations using a wall mounted cabinet.

Customers are responsible for providing floor space for power equipment as set forth in Section 2 of this Guidebook.

(K) Allowance for Service InterruptionsDecaMAN® (Not Fully Protected)

The DecaMAN® outage credits listed below are in lieu of, and not in addition to, the outage credit allowances provided for in the General Conditions Section of this Guidebook.

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this Guidebook, or in the event that the protective controls applied by the Company result in the complete loss of service by the customer. An interruption period starts when an inoperative service is reported to the Company and the Company confirms that continuity has been lost, and ends when the service is operative.

In case of an interruption to DecaMAN® service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows:

- 0 to 10 seconds	No credit shall be allowed
- 10 seconds to 4 hours	10% credit of monthly recurring charges
- 4 hours to 12 hours	25% credit of monthly recurring charges
- 12 hours to 24 hours	50% credit of monthly recurring charges
- 24 hours or greater	100% credit of monthly recurring charges

The credit allowance for service interruptions shall not exceed 100 percent of the applicable monthly rate during any billing period.

⁽¹⁾ See Page 1 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023. Certain material previously on this page now appears on Original Page 11.1

(K) Allowance for Service Interruptions (cont'd)

The Company's failure to provide or maintain services under this Guidebook shall be excused by force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.

DecaMAN® (Fully Protected)

A Service Level Agreement (SLA) is offered with fully-protected DecaMAN® service, which provides the customer with a performance commitment that includes financial compensation if the service does not perform as described.

A SLA of 99.999 percent Service Availability performance is offered on DecaMAN® service with protection (defined as Equipment Plus Path Protection) for every segment of the service.

If this SLA is not met, the customer will be entitled to a credit equal to 100 percent of the monthly rate for the period of the interruption of service affecting that rate element(s), not to exceed the total monthly charges for the service. Only one credit in a billing period, will apply.

The service is considered interrupted when the customer reports a service disruption of greater than ten (10) consecutive seconds to the Telephone Company, and the Telephone Company confirms that continuity of its service has been lost.

In order to qualify for this credit, the outage must be determined by the Telephone Company to be in its network, and the failure occurred in that part of the service with the protection. SLA adjustments are not available in the event of a cable cut in any unprotected portion of the DecaMAN® service fiber path, or due to customer requested modifications to the service that may require down time.

SLAs are applicable to customers who purchase Equipment Plus Alternate Wire Center Path Protection or Equipment Plus Channel Termination Path Protection on both ends of a DecaMAN® service (both channel terminations) as well as Inter-Wire Center Path Protection when applicable. The customer is responsible for notifying the Telephone Company when the service parameter within the calendar month falls below the committed level. The customer must request a service credit adjustment within 25 days after the end of the month when the failure occurred.

⁽¹⁾ See Page 1 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

23. 10 Gigabit Ethernet Metropolitan Area Network (cont'd) (DecaMAN®) ^{(1) (2)}

(L) Upgrade to DecaMAN® from Lower Speeds

Customers with one, two, three, or five year GigaMAN® TPPs may, at any time, upgrade to DecaMAN® service without incurring the Termination Liability charge, providing the following criteria are met:

- (1) The customer subscribes to a Term Pricing Plan period that is equal to, or greater than, 12 months;
- (2) The expiration date for the new Term Pricing Plan period is beyond the end of the original Term Pricing Plan period;
- (3) No lapse in service occurs;
- (4) 100% of any waived or unamortized nonrecurring charges will apply;
- (5) The monthly rates for the new service will be those rates in effect at the time the new service is installed;
- (6) The new service is provided between the same customer locations and with the same customer of record as the disconnected service; and
- (7) The billed monthly recurring revenue for the new service is equal to or greater than the billed monthly recurring revenue remaining in the service being converted.

(M) LAN-PHY to WAN-PHY and WAN-PHY to LAN-PHY conversions

LAN-PHY to WAN-PHY and WAN-PHY to LAN-PHY conversions will be treated as a complete disconnect and new connect of the DecaMAN® service, requiring placement of an order for the new service. No Termination Liability charges would be applied, providing the following criteria are met:

- (1) The customer subscribes to a Term Pricing Plan period that is equal to, or greater than, 12 months;
- (2) The expiration date for the new Term Pricing Plan period is beyond the end of the original Term Pricing Plan period;
- (3) No lapse in service occurs;
- (4) 100% of any waived or unamortized nonrecurring charges will apply;
- (5) The monthly rates for the new service will be those rates in effect at the time the new service is installed;
- (6) The new service is provided between the same customer locations and with the same customer of record as the disconnected service; and
- (7) The billing period revenue for the new service is equal to or greater than the billing period revenue remaining in the service being converted.

(N) Meet Point Arrangements

In some cases, the Telephone Company and another Incumbent Local Exchange Carrier (ILEC, sometimes also referred to as an Independent Company or ICO) may agree to jointly provide an Ethernet service where such service will be provided to locations in both the Telephone Company's and the other ILEC's serving territories within the same LATA. In such cases, the Telephone Company and the other ILEC may mutually agree to meet at a location (i.e., meet point) within the LATA utilizing facilities suitable for delivery of DecaMAN® service. The rates and charges for DecaMAN® service are applicable for the Telephone Company provided portion of such service. The Telephone Company is responsible for the ordering, provisioning, billing and maintenance of DecaMAN® service up to the meet point. See Part 2, Section 2.8, for regulations applicable to Jointly Provided Access Services.

⁽¹⁾ See Page 1 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

(O) Migration to AT&T Dedicated Ethernet Service

Customers subscribing to GigaMAN^{(1) (3)} or DecaMAN service may migrate to AT&T Dedicated Ethernet provided by the Telephone Company without incurring termination liability, subject to the following conditions:

- (1) The new AT&T Dedicated Ethernet and the existing GigaMAN or DecaMAN service must be billed to the same customer of record at the same customer locations.
- (2) The customer's existing service must have been in place for at least 12 months.
- (3) The minimum term for the new service must be at least 12 months and must be equal to or greater than the number of months remaining in the customer's existing Term Payment Plan (TPP) term.
- (4) The speed (capacity/bandwidth) of the new service must be equal to or greater than that of the existing service.
- (5) The customer must issue a disconnect order for the replaced GigaMAN or DecaMAN service to be effective within 90 days after the AT&T Dedicated Ethernet installation date. The disconnect order and new orders must be coordinated through the Telephone Company.
- (6) If overlapping service is required, the period will be limited to not more than 90 days and billing will apply to both services during the time both services are available.

⁽¹⁾ See Part 7, Section 7, Page 2 for Service availability information.

⁽²⁾ See Page 1 for Service availability information.

⁽³⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

SECTION 23 - DecaMAN®

23. 10 Gigabit Ethernet Metropolitan Area Network (cont'd) (DecaMAN®) ^{(1) (2)}(P) Rates and Charges ⁽¹⁾

(1) Recurring Charges

(a) LAN-PHY

		Term Pricing Plan					
	USOC	Monthly Extension	12 Mo.	24 Mo.	36 Mo.	60 Mo.	NRC
(1) Local Distribution Channel -Per Point of Termination Terminating Bit Rate 10 Gbps -All States	TMECS	\$73,811.25	\$15,000.00	\$12,000.00	\$8,500.00	\$7,250.00	N/A
(2) Interoffice Transport Mileage -Fixed -All States	1L5XX	14,762.25	2,700.00	1,800.00	1,275.00	1,150.00	N/A
-Per Mile 10 Gbps -All States	1L5XX	1,742.76	300.00	250.00	125.00	100.00	N/A
(3) Repeater -each	VU4	29,524.50	6,000.00	4,800.00	3,400.00	2,900.00	N/A
(4) Diversity Options Local Channel Diversity -Per Channel Terminating Bit Rate 10 Gbps -All States	CPALX	16,148.28	3,038.00	2,700.00	2,250.00	2,025.00	850.00
Inter Wire Center Diversity -Per Circuit Terminating Bit Rate 10 Gbps -All States	CPATX	10,764.14	2,025.00	1,800.00	1,500.00	1,350.00	700.00
Alternate Wire Center Diversity -Per Channel Terminating Bit Rate 10 Gbps -All States	CPAAX	25,833.95	4,860.00	4,320.00	3,600.00	3,240.00	950.00
(5) Collocation Transport facilities between Collocation Arrangements - Fixed	1H48S	39,366.00	6,700.00	4,800.00	4,200.00	3,800.00	
- Per Mile	1H48S	1,742.76	300.00	250.00	125.00	100.00	
(6) Protection - per DecaMAN® service arranged -Equipment Only Protection, per terminating end	CPAEX	36,905.63	8,250.00	7,350.00	6,300.00	5,400.00	3,000.00

⁽¹⁾ Effective October 2, 2017, DecaMAN Service is no longer available for new circuits. The Telephone Company no longer accepts orders for adds, moves, changes or new term plans for DecaMAN Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing DecaMAN term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

SECTION 23 - DecaMAN®

23. 10 Gigabit Ethernet Metropolitan Area Network (cont'd) (DecaMAN®) ^{(1) (2)}

(P) Rates and Charges (cont'd)

	USOC	Monthly Extension	12 Mo.	24 Mo.	36 Mo.	60 Mo.	NRC
-Equipment Plus Alternate Wire Center Path Protection, per terminating end	CPAFX	\$60,525.23	12,300.00	11,040.00	9,600.00	8,400.00	4,500.00
-Equipment Plus Channel Termination (Local Channel) Path Protection, per terminating end	CPAGX	53,882.22	10,950.00	9,900.00	8,550.00	7,350.00	4,200.00
-Inter Wire Center Path Protection, per Circuit	CPAHX	5,843.39	1,125.00	600.00	450.00	300.00	625.00
-Power Protection	VBBGX	2,870.45	625.00	525.00	480.00	435.00	475.00

(Power Protection rate elements are applicable as set forth in Section 23(J))

(b) WAN-PHY

	USOC	Monthly Extension	12 Mo.	24 Mo.	36 Mo.	60 Mo.	NRC
(1) Local Distribution Channel -Per Point of Termination Terminating Bit Rate 10 Gbps -All States	TMECS	\$81,192.38	\$16,500.00	\$13,200.00	\$9,600.00	\$8,200.00	N/A
(2) Interoffice Transport Mileage -Fixed -All States	1L5XX	14,762.25	2,700.00	1,800.00	1,275.00	1,150.00	N/A
-Per Mile 10 Gbps -All States	1L5XX	1,742.76	300.00	250.00	125.00	100.00	N/A
(3) Repeater -each	VU4	29,524.50	6,000.00	4,800.00	3,400.00	2,900.00	N/A
(4) Diversity Options Local Channel Diversity -Per Channel Terminating Bit Rate 10 Gbps -All States	CPALX	16,148.28	3,038.00	2,700.00	2,250.00	2,025.00	850.00
Inter Wire Center Diversity -Per Circuit Terminating Bit Rate 10 Gbps -All States	CPATX	10,764.14	2,025.00	1,800.00	1,500.00	1,350.00	700.00
Alternate Wire Center Diversity -Per Channel Terminating Bit Rate 10 Gbps -All States	CPAAX	25,833.95	4,860.00	4,320.00	3,600.00	3,240.00	950.00

⁽¹⁾ See Page 1 for Service availability information.⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

SECTION 23 - DecaMAN®

23. 10 Gigabit Ethernet Metropolitan Area Network (cont'd) (DecaMAN®) ⁽¹⁾ ⁽²⁾

(P) Rates and Charges (cont'd)

	USOC	Monthly Extension	12 Mo.	24 Mo.	36 Mo.	60 Mo.	NRC
(5) Collocation Transport facilities between Collocation Arrangements							
- Fixed	1H48S	\$39,366.00	6,700.00	4,800.00	4,200.00	3,800.00	
- Per Mile	1H48S	1,742.76	300.00	250.00	125.00	100.00	
(6) Protection - per DecaMAN® service arranged							
-Equipment Only Protection, per terminating end							
	CPAEX	36,905.63	8,250.00	7,350.00	6,300.00	5,400.00	3,000.00
-Equipment Plus Alternate Wire Center Path Protection, per terminating end							
	CPAFX	60,525.23	12,300.00	11,040.00	9,600.00	8,400.00	4,500.00
-Equipment Plus Channel Termination (Local Channel) Path Protection, per terminating end							
	CPAGX	53,882.22	10,950.00	9,900.00	8,550.00	7,350.00	4,200.00
-Inter Wire Center Path Protection, per Circuit							
	CPAHX	5,843.39	1,125.00	600.00	450.00	300.00	625.00
-Power Protection	VBBGX	2,870.45	625.00	525.00	480.00	435.00	475.00

(Power Protection rate elements are applicable as set forth in Section 23(J))

⁽¹⁾ See Page 1 for Service availability information.⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

(P) Rates and Charges (cont'd)(2) Installation and Rearrangement Charges

The Installation and Rearrangement non-recurring charges will be waived for customers purchasing a 36 or 60 month term pricing plan.

(a) LAN-PHY

All States	<u>USOC</u>	<u>Nonrecurring Charge</u>
(1) Administrative Charge per Order	ORCMX	\$60.00
(2) Design Central Office Connection Charge per circuit	NRMCK	\$600.00
(3) Customer Connection Charge per Termination	NRBBL	\$1,400.00

(b) WAN-PHY

All States	<u>USOC</u>	<u>Nonrecurring Charge</u>
(1) Administrative Charge per Order	ORCMX	\$60.00
(2) Design Central Office Connection Charge per circuit	NRMCK	\$600.00
(3) Customer Connection Charge per Termination	NRBBL	\$1,400.00

⁽¹⁾ See Page 1 for Service availability information.

⁽²⁾ The Company currently plans to discontinue this Service on or after September 30, 2023.

24. Wavelength Metropolitan Area Network (WaveMANSM) ⁽¹⁾24.1 Service Description(A) Basic Channel Description

WaveMANSM is a fiber based, point-to-point, Wavelength service that allows customers to transport SONET OC48, SONET OC192 or other optical data signals at 100 Mbps - 10 Gbps between two locations. WaveMANSM transports SONET signals at one of two rates. An OC-48 (STM16) interface will be transported at a line rate of 2.4853 (2.5) Gigabits per second, while an OC192 (STM64) interface will be transported at a line rate of 9.95328 (10) Gigabits per second (Gbps). Transparent Transport has two options. The first option allows the transmission of data between 100 Mbps - 2.5 Gbps while the other option allows the transmission of data between 2.5 Gbps - 10 Gbps. The Transparent Transport does not contain any monitoring above the physical layer.

(B) Service Provisioning

(1) There are four provisioning options for WaveMANSM:

- a. OC-48, which provides 2.4853 (2.5) Gigabits per second transport
- b. OC-192, which provides 9.95338 (10) Gigabits per second transport
- c. 100 Mbps - 2.5 Gbps Transparent Transport
- d. 2.5 Gbps - 10 Gbps Transparent Transport

⁽¹⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

SECTION 24 - WaveMAN?

24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾

- (2) WaveMANSM provides physical layer transport only. The Telephone Company assumes no responsibility for the through transmission of signals generated by the CPE, for the signals by the CPE, or address signaling to the extent the CPE performs addressing. Error detection and correction of data generated by the CPE is the customer's responsibility.

WaveMAN Transparent Transport Service options are available in two transmission speeds: 100 Mbps to 1.25 Gbps, and 2.5 Gbps to 10 Gbps. The following chart lists the interfaces available and examples of the customer generated digital optical signals that can be transported for each speed:

Bandwidth	Interface to Customer (Wavelength in nm)	Type of Fiber	Example Speeds of Customer Generated Digital Signals Transported:
100 Mbps to 2.5 Gbps	1310 nm, 1550 nm, Single ITU Grid (up to 1580 nm)	Single Mode; 2-Fiber interface	52 Mbps, 100 Mbps, 155 Mbps, 200 Mbps, 270 Mbps, 622 Mbps, 1.0625 Gbps, 1.25 Gbps, 2.5 Gbps
2.5 Gbps to 10 Gbps	1471/1491 nm, 1511/1531 nm, 1551/1571 nm & 1591/1611 nm	Single Mode; 2-fiber interface	100 Mbps, 155 Mbps, 200 Mbps, 270 Mbps, 622 Mbps, 1.0625 Gbps, 1.25 Gbps, 2.5 Gbps, 10 Gbps

- (3) The customer provided equipment (CPE) must deliver the data signals for WaveMANSM transport for the subscribed data service.

(C) Rate Conditions

WaveMANSM has seven basic rate elements. Only Local Distribution Channel (1) and Interoffice Miles (2) (A) (1), below, apply as to the Transparent transportation provisioning options. All seven rate elements apply to both OC-48 and OC-192 WaveMANSM service.

(1) Local Distribution Channel (LDC)

Local Distribution Channel (Same as Channel Termination) is the termination of WaveMANSM at a customer designated premise (node), as described in Section 7 of this Guidebook, consisting of the following two elements:

- (a) the termination equipment for the fiber optic facilities at each node and its serving wire center.
- (b) the fiber optic facility between each node and its serving wire center.

(2) Interoffice Mileage

Interoffice Transport facilities, which provide the transmission path between Serving Wire Centers associated with two customer designated premises, are comprised of Fixed and Per Mile rate elements.

⁽¹⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾(a) Mileage Measurement

(1) Standard Two Fiber Circuit

The mileage is calculated on the airline distance between the locations involved, i.e. the serving wire centers associated with two customer designated premises and an international boundary point, a serving wire center associated with a customer designated premise and a Telephone Company Hub, a serving wire center associated with a customer designated premise and a WATS Serving Office, as described in Section 7 of this Guidebook.

(2) Diversely Routed Circuit

Mileage measurements for Access Services provisioned via an Inter-Wire Center Diversity will be based on the special routing; i.e. mileage measurements will be calculated between the Intermediate Serving Wire Centers along the circuit path of the diversely routed WaveMANSM service.

(3) Protected Four Fiber Circuit

For protected WaveMANSM service, mileage charges are applicable on both paths of the protected service. Both Fixed Mileage and Variable Mileage rates will be applied to each fiber path. Mileage measurements for the primary path will be calculated similar to a standard circuit.

Mileage measurements for the secondary path will be based on the special routing (i.e., mileage measurements will be calculated between the intermediate Wire Centers along the circuit path of the diversely routed WaveMANSM service).

(3) Repeater

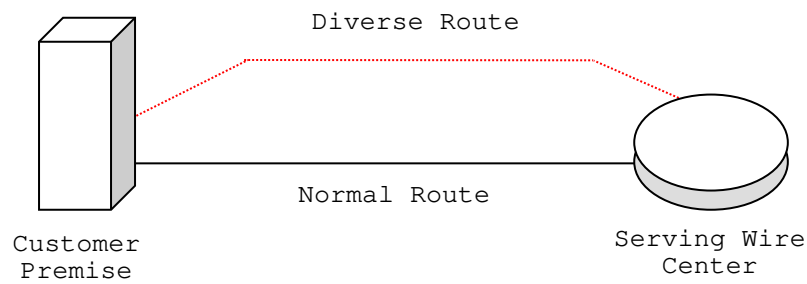
Repeaters (Circuit Regenerators) provide essential detection and retransmission of WaveMANSM signals. Repeaters are provided as required by the Telephone Company when actual fiber facility loss between customer designated premises and/or central office locations exceed design limits. Repeaters will be located exclusively in Telephone Company central offices.

When protection options are ordered, as set forth in Section 24.1(J), additional repeaters may be necessary on the protected path as determined by the Telephone Company. The Repeater rate element will be applied to a protected circuit per fiber pair.

⁽¹⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾(4) Local Channel Diversity

Local Channel Diversity provides for a transmission path between a designated customer premises and the standard Serving Wire Center (SWC) that is diverse from the normal/standard transmission path. With this arrangement, one or more local distribution channels will be provisioned over the standard route and one or more local distribution channels will be provisioned over the diverse route. Local Channel Diversity requires two circuits. Local Channel Diversity can be requested between a WaveMANSM circuit and a DecaMAN®, GigaMAN® or FibreMAN circuit. Local Channel Diversity does not provide for all diversity, it only allows for diversity from the splice point closest to the customer's property line to the SWC. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premises, at the customer's expense.

(5) Inter-Wire Center (IWC) Diversity

Inter-Wire Center (IWC) Diversity arrangements presume that each end of a WaveMANSM local distribution channel is served out of a different Serving Wire Center (SWC).

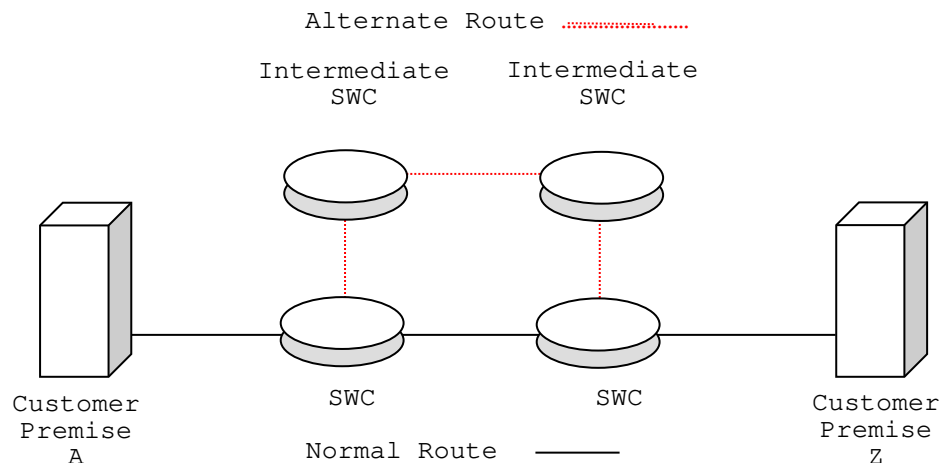
This arrangement provides a transmission path for WaveMANSM local distribution channels between the customer's designated SWC and the SWC at the distant end of the circuit over a transmission path that is separate from the standard transmission path between the two wire centers. IWC diversity requires two circuits. IWC diversity can be requested between a WaveMANSM circuit and a DecaMAN®, GigaMAN®, or FibreMAN circuit. IWC diversity does not provide for full diversity. It only offers interoffice diversity. If a customer desires full diversity, Alternate Wire Center Diversity must be implemented along with IWC Diversity. Additionally, arrangements must be made for constructing dual entrance facilities at the customer's premises, at the customer's expense.

⁽¹⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

SECTION 24 - WaveMAN?

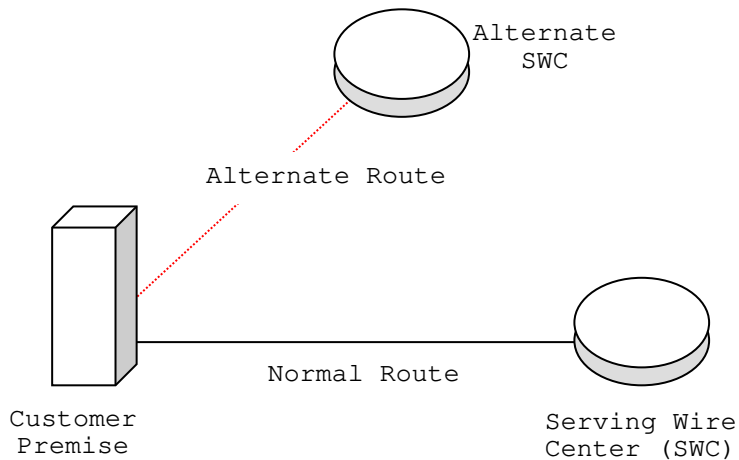
24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾(a) Inter-Wire Center Diversity (IWC) Mileage Measurement

Described in Section 24.1(C) (2) (A) (2) .

(6) Alternate Wire Center Diversity

Alternate Wire Center Diversity is for the local loop only. It provides a local channel transmission path for WaveMANSM service between the customer's designated premises and a wire center that is not the normal (or standard) SWC. The Telephone Company will choose the alternate wire center closest to the customer's designated premises that is capable of providing WaveMANSM service over the alternate route. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premises, at the customer's expense.

If the circuit routed to the alternative wire center has Interoffice Mileage, measurements will be based on the special routing; i.e. mileage measurements will be made to the alternate wire center rather than the serving wire center from which the customer designed premises would normally obtain dial tone.



⁽¹⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾
(7) Collocation Transport

Collocation Transport provides for the transmission facilities arrangement between a Telephone Company Central Office frame and a collocation frame located in the Telephone Company Central Office.

There are two components of Collocation Transport.

(a) Inter/Intra Office Fixed

Inter/Intra office fixed rate element provides for the electronic equipment required to terminate a channel between two collocation arrangements located either in the same Central Office (intra) or in two separate Central Offices (inter).

(b) Inter Office Per Mile

The per mile charge provides for the electronic equipment and facilities necessary to provide the interoffice transport between collocation arrangements.

The following types of collocation transport are:

OC-48
OC-192

In addition to one collocation transport charge, two EISCC charges will apply per collocation arrangement.

(D) Rate Elements(1) Non-recurring Charges

Non-recurring Charges are one-time charges that apply for specific work activity related to the provisioning of WaveMANSM Service, as described in Section 7 of this Guidebook.

(2) Recurring Charges

Recurring Charges are rates that apply each month, or fraction thereof, that the service is provided. Recurring rates apply to 12-, 24-, 36-, or 60- month periods under the terms and conditions of Term Pricing Plans (TPP), as described below.

(3) Monthly Extension Rates

Upon expiration of a TPP, customer's service will automatically convert to the Monthly Extension Rates unless the customer requests a new TPP, disconnects service, or converts to an alternate service.

(E) Term Pricing Plan (TPP)

WaveMANSM, excluding Transparent Transport options, is available for 12-, 24-, 36-, or 60-month term periods. If the Telephone Company initiates rate changes resulting in a decrease of rates for an existing service with a TPP, those rate changes will be passed along to the customer. Rate changes resulting in an increase of rates for an existing service with a TPP will not exceed the initial rate for that selected TPP. WaveMANSM Transparent Transport options are available for a 60-month term period only.

⁽¹⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾(1) Renewals

At the expiration of a TPP, the customer must select one of the following options within one month prior to the expiration date:

- (a) Renew the service for a 12-, 24-, 36-, or 60- month TPP as provided in this Guidebook;
- (b) Elect to disconnect the service upon expiration of the TPP; or
- (c) Continue the service on a monthly basis at the prevailing Monthly Extension Rates.

All services under an existing TPP that are not renewed within the period stated above will revert to Option (1)(c) above and will be billed at the prevailing Monthly Extension Rates.

(2) Conversions

During the customer's TPP, term conversions may be made to a new TPP term of the same or greater length. The expiration date of the new service must be beyond the expiration date of the original TPP term. With the new TPP, the customer incurs no liability for the remaining months on the original TPP.

An Administrative Charge is applicable when customers renew or change the length of the TPP term.

(3) Termination Liability

Customers requesting termination of service prior to the expiration date of the TPP term will be liable for a termination liability charge, as described below:

Billing Period	Termination Percentage
12 Month	85%
24 Month	85%
36 Month	75%
60 Month	60%

(Monthly Recurring Rate) X (Months Remaining in Billing) X (Termination Percentage) = Termination Liability Charge

Example: A WaveMANSM Customer with a \$10,000.00 monthly recurring rate terminates service after 2 years with 1 year (12 months) remaining in a 3 year TPP. The termination liability would be calculated as follows:

$\$10,000 \times 12 \times .75 = \$90,000.00$ Termination Charge

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24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾(F) Moves

Moves involve a change in the physical location of one of the following:

- (i) Service rearrangement;
- (ii) Point of Termination at the customer's premises; or
- (iii) Customer's premises.

Move charges are dependent upon the type of move requested by the customer.

(1) Service Rearrangement

Service rearrangements are changes to existing (installed) services, which do not result in a change in the minimum period requirements, as set forth in Section 7 of this Guidebook.

(2) Moves Within the Same Building

When the move is to a new location within the same building, the Administration Charge and Customer Connection Charge for the service termination affected will apply. There will be no change in the minimum period requirements, as described in Section 7 of this Guidebook.

(3) Moves to a Different Building

Moves to a different building will be treated as a discontinuance, therefore, start of service, all associated Nonrecurring Charges, and new minimum period requirements, as described in Section 5 of this Guidebook, will apply.

(4) WaveMANSM customers subscribing to 36 Month and 60 Month Term Pricing Plans may move one end of the WaveMANSM service per the following conditions:

- (a) A customer may move one end of the WaveMANSM service to a different premises in the same LATA, without incurring early termination liability charges for their existing WaveMANSM service, providing the following criteria are met, and are contingent upon the availability of fiber from premises to premises.
 - i. Customers must have completed at least 15 months (for 3 year term plan), and 18 months (for 5 year term plan) of their existing WaveMANSM contracted term plan,
 - ii. The customer subscribes to a new Term Pricing Plan period that is greater than the remaining months in the existing Term Payment Plan,
 - iii. Nonrecurring Charges will apply where applicable,
 - iv. Spare facilities and equipment must be available or special construction charges shall apply.

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24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾

The moved service will require a disconnect of the existing WaveMANSM service and placement of an order for the new WaveMANSM service for the same customer of record as disconnected service.

The monthly rates for the new services(s) shall be those rates in effect at the time the new service(s) is being installed, requiring a disconnect of the existing WaveMANSM service and placement of an order for new WaveMANSM service.

The billing period revenue for the new service is equal to, or greater than, the billing period revenue remaining in the service being convert.

(b) The WaveMANSM service is installed without protection and customer subsequently requests protection options after the WaveMANSM order has been completed, and customer premises locations remain the same. This will require a change to the customer premises based Telephone Company equipment. This change will be treated as an upgrade to the WaveMANSM service, and a new Nonrecurring Charge is applicable. This change will require a disconnect of the existing WaveMANSM service and placement of an order for the new WaveMANSM service for the same customer of record. With this upgrade, the customer will experience an out of service condition.

(c) The WaveMANSM service was installed with protection options and the customer subsequently requests a move of the channel termination within the same building afterwards. This request may require a change to the customer premises based Telephone Company equipment, which will be determined by the Telephone Company. Nonrecurring Charges, as set forth in Section 5 of this Guidebook, are applicable (one-half the Nonrecurring Charge for the channel termination). With this upgrade the customer will experience an out of service condition.

(G) Upgrade to WaveMANSM from Other Access Products

Other Access products may not upgrade to WaveMANSM without incurring applicable Termination Liability Charges, if any, on that current access product.

(H) Modification of Access Service

The customer may request a modification of its Access Order at anytime prior to notification by SBC that service is available for the customer's use. SBC will make every effort to accommodate a requested modification, when it is able to do so, with the normal work force assigned to complete such an order within normal business hours.

If the modification cannot be made with the work force during normal business hours, SBC will notify the customer. If the customer still desires the Access Order Modification, SBC will schedule a new service date. All charges for Access Order modifications will apply on a per occurrence basis as described in Section 5 of this Guidebook.

⁽¹⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾(I) Upgrade from OC-48 WaveMANSM to OC-192 WaveMANSM

Customers with one, two, three, or five year OC-48 WaveMANSM TPPs may, at any time, upgrade to OC-192 WaveMANSM without incurring the Termination Liability Charge, providing the following criteria are met:

- i. The customer subscribes to a Term Pricing Plan period that is equal to, or greater than, 12 months;
- ii. The expiration date for the new Term Pricing Plan period is beyond the end of the original Term Pricing Plan period;
- iii. No lapse in service occurs;
- iv. 100% of any waived or unamortized Nonrecurring Charges will apply, when applicable;
- v. The monthly rates for the new service(s) will be those rates in effect at the time the new service(s) is/are installed;
- vi. The new service is provided between the same customer locations and with the same customer of record as the disconnected service;
- vii. The billed monthly recurring revenue for the new service is equal to, or greater than, the billed monthly recurring revenue remaining in the service being converted;

(J) Optional Features (Excluding Transparent Transport)(1) Protection Options

Protection options are provisioned on the customers WaveMANSM service and the customer is not required to purchase a second WaveMANSM circuit for protection options. Protection options are applied on a per WaveMANSM circuit basis only.

Protection options are available where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not permit, special construction charges may apply. Protection options provide additional levels of reliability to WaveMANSM service. There are multiple protection options offered. The options do not need to be the same, but both Channel Terminations of the WaveMANSM service must include some form of protection for the service to be considered protected.

The Telephone Company will design the protection option based upon the configuration of the customers WaveMANSM service.

Additional repeaters may be necessary on the protected path as determined by the Utility and as set forth in Section 24.1(C) (3).

Protection switching in less than 50 milliseconds will occur on WaveMANSM services with protection options, with the exception of Power Protection, which is not Switch protected. Protection options are offered with a Service Level Agreement (SLA) that targets a service availability of 99.999%. SLAs are not applicable in the event of cable cuts in any unprotected portion of the WaveMANSM service fiber path, or when customer requested modifications to the service require down time.

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24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾

WaveMANSM Protection Options are offered as follows:

- (a) Equipment Only Protection - per Termination End
- (b) Equipment Plus Fiber Path Protection

- (1) Equipment Plus Alternate Wire Center Path Protection - per Terminating End
- (2) Equipment Plus Channel Termination Path Protection - per Terminating End
- (3) Inter Wire Center Path Protection - per Interoffice Segment

- (c) Power Protection

(2) Equipment Only Protection

Equipment Only Protection offers one WaveMANSM signal routed on two different fiber pairs that co-exist in the same cable and conduit structure that terminate into two distinct and separate network terminating equipment devices at the customer's premises.

All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, the WaveMANSM equipment will switch, within 50 milliseconds of detection, the customer's transmission to a dedicated standby path. In the event of a failure to both fiber transmission paths, an out of service condition will result. This form of protection can only be ordered per channel termination for each protected WaveMANSM service, and may also apply to the Inter-Wire center segment if the WaveMANSM service is served by more than one serving wire center.

If a customer requests complete protection extending to the SBC serving wire center from their premises location when utilizing Equipment Protection, they must request diverse entrance facilities into their premises at each end from the nearest SBC splice point closest to the customer premises location, this work is subject to special construction charges.

(3) Equipment Plus Fiber Path Protection

Equipment Plus Fiber Path Protection offers varying degrees of path protection for each channel termination of the WaveMANSM service, plus the inter-wire segment if the service is served by more than one serving wire center, and is offered as follows:

- (a) Equipment Plus Alternate Wire Center Path Protection

Equipment Plus Alternate Wire Center Path Protection offers one WaveMANSM signal routed over one fiber pair of the protected WaveMANSM service from the customer's premises to the customer's normal serving wire center, and a duplicate WaveMANSM signal routed over a diversely routed fiber pair to the Alternate Wire center selected by the Telephone Company.

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24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾

If any location(s) between the two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine to accept the engineered path or agree to pay special construction charges to provide a completely diverse route where the ten foot allowance is not acceptable to the customer.

Where facilities are not available, the customer may select Equipment Only Protection for an inter-office segment. This option can be selected for one or both channel terminations of the WaveMANSM service.

All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, the WaveMANSM service will switch to a dedicated standby path within 50 milliseconds of detection. In the event of a failure to both fiber transmission paths, an out of service condition will result. This form of protection can only be ordered per channel termination for each protected WaveMANSM service.

If a customer requests complete protection extending to the SBC serving wire center from their premises location when utilizing Equipment Protection Plus Alternate Wire Center Path Protection, they must request diverse entrance facilities into their premises at each end from the nearest SBC splice point closest to the customer premise location. This work is subject to special construction charges.

(b) Equipment Plus Channel Termination Path Protection

Equipment Plus Channel Termination Path Protection offers a duplicate WaveMANSM signal routed over two diversely routed fiber paths, to the customer's normal serving wire center.

If any location(s) between two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine to accept the engineered path or agree to pay special construction charges to provide a completely diverse route where the ten foot allowance is not acceptable to the customer.

All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, WaveMANSM technology will switch, within 50 milliseconds of detection, the customer's transmission to a dedicated standby path. In the event of failure to both fiber transmission paths, an out of service condition will result.

This form of protection can only be ordered per Channel Termination for each protected WaveMANSM service from the customers premises location, or from the manhole/splice point nearest the customer premises), to the Utility serving wire center.

⁽¹⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾

If a customer requests complete protection extending to the SBC serving wire center from their premises location when utilizing Equipment Protection Plus Channel Termination Path Protection, they must request diverse entrance facilities into their premises at each end from the nearest SBC splice point closest to the customer premises location. This work is subject to special construction charges.

(c) Inter-Wire Center Path Protection

Inter-Wire Center Path Protection offers a duplicate WaveMANSM signal routed over two diversely routed fiber paths, between the two serving wire centers or alternate wire centers. Path protection starts at the nearest manhole outside the Telephone Company serving wire center. Inter Wire Center Path Protection must be ordered with either Equipment Only, Channel Termination Path Protection or Alternate Wire Center Path Protection.

If any location(s) between the two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine to accept the engineered path or agree to pay special construction charges to provide a completely diverse route where the ten foot allowance is not acceptable to the customer. All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, WaveMANSM technology will switch, within 50 milliseconds of detection, the customer's transmission to a dedicated standby path. In the event of a failure to both fiber transmission paths, an out of service condition will result.

(d) Power Protection

Power Protection provides WaveMANSM customers with battery backup for up to eight (8) hours to maintain WaveMANSM equipment in the event of a commercial AC power failure.

Power Protection is offered on a per equipment bay capacity basis, per customer premise, and depending upon the number of WaveMANSM services for the WaveMANSM customer of record. The Telephone Company will apply the power protection rate elements based upon the circuit capacity, and more than one element may be applicable. The Telephone Company will determine the design and engineering requirements for Power Protection for WaveMANSM customers.

Customers in multi-tenant buildings will require separate equipment and bays dedicated to each customer.

The addition of Power Protection to existing WaveMANSM service may result in temporary service interruption.

Power Protection is not available for installations using the wall mounted cabinet.

Customers are responsible for providing floor space for power equipment as set forth in Section 2.

⁽¹⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾(K) Allowance for Service Interruptions

A Service Level Agreement (SLA) is offered with fully-protected WaveMANSM service, which provides the customer with a performance commitment that includes financial compensation if the service does not perform as described.

Service availability performance 99.999% is offered on a WaveMANSM service with protection (defined as Equipment Plus Path Protection) for every segment of the service.

If this SLA is not met, the customer will be entitled to a credit equal to 100% of the monthly rate for the period of the interruption of service affecting that rate element(s), not to exceed the total monthly charges for the services. Only one such credit in a billing period will apply.

The service is considered interrupted when the customer reports a service disruption of greater than ten (10) consecutive seconds to the Telephone Company and the Telephone Company confirms that continuity of its service has been lost.

In order to qualify for this credit, the outage must be determined by the Telephone Company to be in its network and the failure occurred in that part of the service with the protection. SLA adjustments are not available in the event of a cable cut in any unprotected portion of the WaveMANSM service fiber path, or due to customer requested modifications to the service that may require down time.

SLAs are applicable to customers who purchase Equipment Plus Alternate Wire Center Path Protection or Equipment Plus Channel Termination Path Protection on both ends of a WaveMANSM service (both channel terminations), as well as Inter-Wire Center Path Protection when applicable. The customer is responsible for notifying the Telephone Company when the service parameter within the calendar month falls below the committed level. The customer must request a service credit adjustment within 25 days after the end of the month when the failure occurred.

(L) Meet Point Arrangements

In some cases, the Telephone Company and another Incumbent Local Exchange Carrier (ILEC, sometimes also referred to as an Independent Company or ICO) may agree to jointly provide an Ethernet service where such service will be provided to locations in both the Telephone Company's and the other ILEC's serving territories within the same LATA. In such cases, the Telephone Company and the other ILEC may mutually agree to meet at a location (i.e., meet point) within the LATA utilizing facilities suitable for delivery of WaveMANSM service. The rates and charges for WaveMANSM service are applicable for the Telephone Company provided portion of such service. The Telephone Company is responsible for the ordering, provisioning, billing and maintenance of WaveMANSM service up to the meet point. See Part 2, Section 2.8, for regulations applicable to Jointly Provided Access Services.

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24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾24.2 Rates and Charges(1) Recurring Charges(a) OC-48

		Term Pricing Plan							
	USOC	Monthly Extension	12 Mo.	24 Mo.	36 Mo.	60 Mo.		NRC	
(1) Local Distribution Channel									
-Per Point of Termination Terminating Bit Rate 2.5 Gbps									
-All States	TMECS	\$9,000.00	\$7,500.00	\$6,000.00	\$4,700.00	\$3,800.00			
(2) Interoffice Transport Mileage									
-Fixed									
-All States	1L5XX	\$1,400.00	\$1,100.00	\$800.00	\$600.00	\$500.00			
-Per Mile 2.5 Gbps									
-All States	1L5XX	\$425.00	\$300.00	\$260.00	\$240.00	\$200.00			
(3) Repeater -each	VU4	\$3,100.00	\$2,640.00	\$2,100.00	\$1,500.00	\$1,300.00			
(4) Diversity Options									
Local Channel Diversity									
-Per Channel Terminating Bit Rate 2.5 Gbps									
-All States	CPALX	\$1,400.00	\$1,200.00	\$1,000.00	\$900.00	\$800.00	\$850.00		
Inter Wire Center Diversity									
-Per Channel Terminating Bit Rate 2.5 Gbps									
-All States	CPATX	\$1,050.00	\$800.00	\$700.00	\$600.00	\$500.00	\$700.00		
Alternate Wire Center Diversity									
-Per Channel Terminating Bit Rate 2.5 Gbps									
-All States	CPAAX	\$2,500.00	\$1,900.00	\$1,700.00	\$1,400.00	\$1,200.00	\$950.00		

⁽¹⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽²⁾

	USOC	Monthly Extension	12 Mo.	Term Pricing Plan			60 Mo.	NRC
(5) Protection - per WaveMAN SM service arranged				24 Mo.	36 Mo.			
-Equipment Only Protection, per terminating end	CPAEX	\$2,250.00	\$2,000.00	\$1,800.00	\$1,550.00	\$1,350.00	\$625.00	
-Equipment Plus Alternate Wire Center Path Protection, per terminating end	CPAFX	\$3,700.00	\$3,050.00	\$2,750.00	\$2,400.00	\$2,100.00	\$1,400.00	
-Equipment Plus Channel Termination (Local Channel) Path Protection, per terminating end	CPAGX	\$3,250.00	\$2,700.00	\$2,400.00	\$2,100.00	\$1,800.00	\$1,255.00	
-Inter Wire Center Path Protection, per interoffice segment	CPAHX	\$570.00	\$450.00	\$240.00	\$180.00	\$120.00	\$625.00	
Power Protection ⁽¹⁾	VBBGX	\$700.00	\$625.00	\$525.00	\$480.00	\$435.00	\$475.00	

(6) -Collocation Transport facilities between Collocation Arrangements								
-Fixed	1H48S	\$5,200.00	\$4,100.00	\$3,250.00	\$2,800.00	\$1,800.00		
-Per Mile	1H48S	\$425.00	\$300.00	\$260.00	\$240.00	\$200.00		

(b) OC-192

	USOC	Monthly Extension	12 Mo.	Term Pricing Plan			60 Mo.	NRC
(1) Local Distribution Channel -Per Point of Termination Terminating Bit Rate 10 Gbps -All States	TMECS	\$22,770.00	\$18,000.00	\$15,000.00	\$10,500.00	\$9,000.00		
(2) Interoffice Transport Mileage -Fixed -All States	1L5XX	\$1,800.00	\$1,350.00	\$900.00	\$650.00	\$575.00		
-Per Mile 10 Gbps -All States	1L5XX	\$425.00	\$300.00	\$260.00	\$240.00	\$200.00		

⁽¹⁾Power Protection rate elements are applicable as set forth in Section 24.1(J)(3)(d).⁽²⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

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24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd⁽²⁾

		Monthly USOC Extension	12 Mo.	Term Pricing Plan				
				24 Mo.	36 Mo.	60 Mo.		NRC
(3) Repeater -each	VU4	\$7,920.00	\$6,600.00	\$5,280.00	\$3,840.00	\$3,280.00		
(4) Diversity Options								
Local Channel								
Diversity								
-Per Channel								
Terminating Bit								
Rate 10 Gbps								
-All States	CPALX	\$3,938.00	\$3,038.00	\$2,700.00	\$2,250.00	\$2,025.00		\$850.00
Inter Wire								
Center Diversity								
-Per Channel								
Terminating Bit								
Rate 10 Gbps								
-All States	CPATX	\$2,625.00	\$2,025.00	\$1,800.00	\$1,500.00	\$1,350.00		\$700.00
Alternate Wire								
Center Diversity								
-Per Channel								
Terminating Bit								
Rate 10 Gbps								
-All States	CPAAX	\$6,300.00	\$4,860.00	\$4,320.00	\$3,600.00	\$3,240.00		\$950.00
(5)Protection - per WaveMAN SM service arranged								
-Equipment Only Protection, per terminating end	CPAEX	\$9,000.00	\$8,250.00	\$7,350.00	\$6,300.00	\$5,400.00		\$3,000.00
-Equipment Plus Alternate Wire Center Path Protection, per terminating end	CPAFX	\$14,760.00	\$12,300.00	\$11,040.00	\$9,600.00	\$8,400.00		\$4,500.00
-Equipment Plus Channel Termination (Local Channel) Path Protection, per terminating end	CPAGX	\$13,140.00	\$10,950.00	\$9,900.00	\$8,550.00	\$7,350.00		\$4,200.00
-Inter Wire Center Path Protection, per interoffice segment	CPAHX	\$1,425.00	\$1,125.00	\$600.00	\$450.00	\$300.00		\$625.00
Power Protection ⁽¹⁾	VBBGX	\$700.00	\$625.00	\$525.00	\$480.00	\$435.00		\$475.00
(6) -Collocation Transport facilities between Collocation Arrangements								
-Fixed	1H48S	\$9,600.00	\$6,700.00	\$4,800.00	\$4,200.00	\$3,800.00		
-Per Mile	1H48S	\$425.00	\$300.00	\$260.00	\$240.00	\$200.00		

⁽¹⁾ Power Protection rate elements are applicable as set forth in Section 24.1(J) (3) (d).

⁽²⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽¹⁾(c) Transparent Transport (100 Mbps - 2.5 Gbps)

	USOC	Monthly Extension	Term Pricing Plan 60 Mo.
(1) Local Distribution Channel			
-Per Point of Termination Terminating Bit Rate 100 Mbps - 2.5 Gbps			
	TMECS	\$9,000.00	\$3,800.00
(2) Interoffice Transport Mileage			
a) Channel Mileage			
-Fixed			
100 Mbps - 2.5 Gbps	1L5XX	\$1,400.00	\$500.00
b) Channel Mileage			
-Per Mile			
100 Mbps - 2.5 Gbps	1L5XX	\$425.00	\$200.00

(d) Transparent Transport (2.5 Gbps - 10 Gbps)

	USOC	Monthly Extension	Term Pricing Plan 60 Mo.
(1) Local Distribution Channel			
-Per Point of Termination Terminating Bit Rate 2.5 Gbps to 10 Gbps			
	TMECS	\$22,770.00	\$9,000.00
(2) Interoffice Transport Mileage			
a) Channel Mileage			
-Fixed			
2.5 Gbps to 10 Gbps	1L5XX	\$1,800.00	\$575.00
b) Channel Mileage			
-Per Mile			
2.5 Gbps to 10 Gbps	1L5XX	\$425.00	\$200.00

⁽¹⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

24. Wavelength Metropolitan Area Network (WaveMANSM) Cont'd ⁽²⁾(1) Installation and Rearrangement Charges(a) OC-48,
Transparent Transport (100 Mbps-2.5 Gbps)

	<u>USOC</u>	<u>Nonrecurring Charges</u> ⁽¹⁾
(1) Administrative Charge per Order	ORCMX	\$60.00
(2) Design Central Office Connection Charge per circuit	NRMCK	\$600.00
(3) Customer Connection Charge per Termination	NRBBL	\$1,500.00

(b) OC-192,
Transparent Transport (2.5 Gbps - 10 Gbps)

	<u>USOC</u>	<u>Nonrecurring Charges</u> ⁽¹⁾
(1) Administrative Charge per Order	ORCMX	\$60.00
(2) Design Central Office Connection Charge per circuit	NRMCK	\$600.00
(3) Customer Connection Charge per Termination	NRBBL	\$1,500.00

⁽¹⁾ The installation Non-recurring charges will be waived for customers purchasing a new 36 or 60 month term pricing plan. This waiver does not include moves and upgrade of services.

⁽²⁾ Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 30, 2024.

Section not in use.

Section not in use.

Section not in use.

29. Dedicated SONET Ring Service⁽¹⁾29.1 General Description(A) Basic Service Description

Dedicated SONET Ring OC-3, OC-12 and OC-48 Service provides customers with a dedicated custom network. The network is in a ring architecture, including sub-rings or Arc sub-rings provisioned on Next Generation SONET equipment, designed to provide increased reliability and functionality by connecting multiple customer designated locations and specified Telephone Company Central Offices (COs) via self-healing network designs. Dedicated SONET Rings OC-3, OC-12 and OC-48 are available via Self-Healing Uni-Directional Path Switched Rings (UPSR); additionally, OC-48 is available via Self-Healing Bi-Directional Line Switched Rings (BLSR). The dedicated ring can connect multiple (between 2 and 16) customer-designated locations and Telephone Company COs, where SONET facilities and equipment are available. The Dedicated SONET Ring services will interface with other compatible Telephone Company-provided Special Access Services (i.e. DS1, DS3), as provided by this Guidebook and Tariff F.C.C. No. 1.

Rates and charges for Dedicated SONET Ring Service are set forth in Section 29.4, with the exception of the services provided by the Telephone Company in the Metropolitan Statistical Areas (MSAs) in which the Telephone Company has received Phase II pricing flexibility pursuant to Subpart H of Part 69 of the Commission's Rules. The rates and charges for the Dedicated SONET Ring Service in the MSAs that have received Phase II pricing flexibility are set forth in Section 31.

Rate elements include nodes, ports, mileage between nodes and regenerators. Rates are specified in Section 29.4.

(B) Service Provisioning(1) Manner of Provisioning

All customers will be served from the nearest suitably equipped end office. Information pertaining to end offices equipped to provide Dedicated Ring Service is set forth in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. Dedicated SONET Ring Service will be provided subject to the availability and limitations of the Telephone Company's wire centers and outside plant facilities. Dedicated SONET Ring Service is only available where technical capabilities permit such facility distance and type of physical plant. Where facilities are not available, Special Construction charges may apply.

(2) Limitations

The Telephone Company does not undertake to originate data, but offers the use of its Dedicated SONET Ring Service, where available, to customers for the purpose of transporting data originated by the customer or a third party.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

(3) Allowance for Service Interruptions

Dedicated SONET Ring Service provides Automatic Protection Switching to assure 100 percent availability of the services on the ring. A service interruption will result in a credit equal to one month's bill for the individual port-to-port connection involved. An interruption of service will start when an inoperative service is reported to the Telephone Company, and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element.

In the event that protected facilities do not exist (including dual entrance facilities) and the customer does not utilize Special Construction to provide protected facilities, the unprotected dedicated ring will be provided.

(C) Responsibility of The Telephone Company

The Telephone Company will provision and maintain Dedicated SONET Ring Service for the customer up to and including the Network Interface (NI).

(D) Rights of The Telephone Company

The Telephone Company will not provision Dedicated SONET Ring Service if it has reasonably determined that (a) it is not technically feasible over existing facilities, or (b) it will cause interference problems within the Telephone Company's network or other facilities.

During the Telephone Company's network maintenance and software update period, it may be necessary to temporarily place the Dedicated SONET Ring Service CO equipment out of service. The Telephone Company also reserves the right to temporarily interrupt Dedicated SONET Ring Service at other times in emergency situations.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

(E) Responsibility of Customer

The customer is responsible for providing compatible Customer Provided Equipment (CPE) that is used for connection to Dedicated SONET Ring Service.

29.2 Technical Specifications

Technical specifications for Dedicated SONET Ring Service are listed in the following Telephone Company publications:

- (1) TP 76839 SONET Transmission Requirements Performance and Interface Specifications
- (2) AM TR-NIS-000111 Ameritech OC-3, OC-12, OC-48 and OC-192 Service Interface Specifications
- (3) AM TR-TMO-000101 Ameritech Digital Service Transmission Parameters for Performance
- (4) TP 76412 SBC Customer Interface Standards for 100 Mbps and Higher Excluding SONET Interfaces

Dedicated SONET Ring Service offers the following SONET (Synchronous Optical Network) based Interfaces:

DS1 1.544 Mbps
 DS3 44.736 Mbps
 EC-1 51.84 Mbps
 OC-3 155.520 Mbps
 OC-3c 155.520 Mbps (concatenated)
 OC-12 622.080 Mbps
 OC-12c 622.080 Mbps (concatenated)
 OC-48 2488.320 Mbps
 Ethernet 100 Mbps
 Ethernet 1 Gbps

29.3 Rate Conditions(A) Rate Elements(1) Nodes

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

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

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
 Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(2)

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

If a customer collocates two customer premises nodes of the same speed, on the same dedicated ring, on the same premises, the additional node will be billed as shown in Section 29.4. This option does not provide diversity between these two collocated nodes and the rest of the ring.

(a) Sub-Ring Node

A sub-ring node is a lower speed optical extension off a main ring. It traverses one or more main ring nodes via the use of OC-N port connections on and off the main ring. The primary use of sub-ring nodes is to provide the ability to fully utilize the bandwidth around the ring when the customer requires DS1/VT1.5 circuit paths.

An optional sub-ring node is available at OC-3 and OC-12 speeds from an OC-48 main ring, and OC-3 speed from an OC-12 main ring. A sub-ring node may only connect to the main ring at the same, or an adjacent, main ring node. A sub-ring node may not connect directly to another sub-ring node.⁽¹⁾

Any service that enters the main ring via a port on a sub-ring node must also exit via a port on another sub-ring node (sub-ring on - sub-ring off).⁽¹⁾ Cascading sub-rings are not allowed off a main ring. Service circuits may not be established between sub-ring nodes connecting to the same main ring node or between a sub-ring node and a port on the same main ring node to which it connects.

Each sub-ring must be implemented as an OC-M on an OC-N ring with full complement of STS-1s, STS-3s or STS-12s, depending on the bandwidth of the sub-ring, appearing together at all associated sub-ring nodes on a given sub-ring.

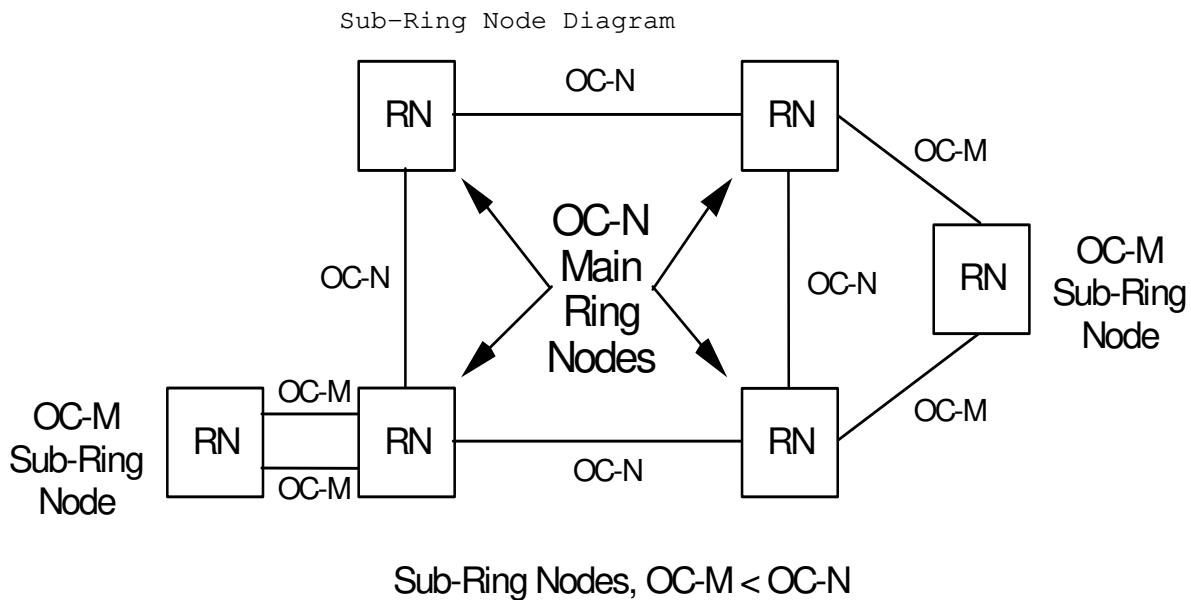
Two OC-N ports and associated node charges apply for each sub-ring node connected to the main ring, as well as applicable mileage for the sub-ring.

A sub-ring node which is co-located with a main ring node at the customers premises (for the same dedicated ring) will be billed as an "Additional Node" as set forth in Section 29.4(A). A sub-ring is not available with a two-node main ring configuration.

(1) This restriction does not apply for Next Generation SONET equipment.

(2) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

(b) Arc Sub-Ring Node

Arc sub-ring nodes are only available on Next Generation SONET equipment with service installed after November 2, 2007. An Arc sub-ring node is a lower speed optical extension off a main ring. It connects to one main ring node via the use of OC-N port connections from and to a main ring. The primary use of Arc sub-ring nodes is to add other locations to the ring that will utilize minimal amounts of bandwidth from the main ring.

Arc sub-rings are only available off of UPSR main rings. Arc sub-rings are only available where facilities and/or operating conditions permit, as determined by the Telephone Company.

An optical Arc sub-ring node is available at OC-3 and OC-12 speeds from an OC-48 main ring, and OC-3 speed from an OC-12 main ring. An Arc sub-ring node may connect to the main ring at any main ring node.

Cascading Arc sub-rings are not permitted off a main ring. Services entering an Arc sub-ring node cannot drop from the directly connecting main ring node (hairpinning).

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

More than one Arc sub-ring may be added to a main ring. Each Arc sub-ring must be implemented as an OC-M on an OC-N ring with a full compliment of STS-1s, 3s or 12s, depending on the bandwidth of the Arc sub-ring, appearing together at all associated Arc sub-ring nodes on a given Arc sub-ring.

Two OC-N ports apply for each Arc sub-ring connected to the main ring. A node charge applies for each Arc sub-ring location. Mileage charges are applicable when the sub-ring is in a different location than the main ring.

An Arc sub-ring node which is collocated in the same room with a main ring node at the customer's premises (for the same dedicated ring) will be billed as an "Additional Node."

Arc sub-rings do not reduce the bandwidth capacity of the main ring. As services are added to the main or sub-ring, only the bandwidth capacity of the service is reduced.

Arc sub-rings can be provisioned in two basic configurations:

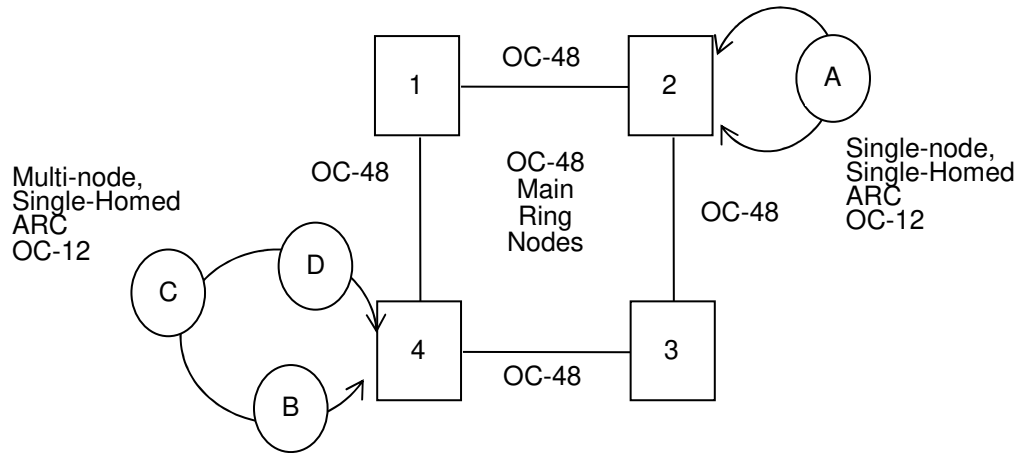
1. Single-node, single-homed ARC
2. Multi-node, single-homed ARC

Circuit traffic can be added/dropped from an Arc sub-ring node to another Arc sub-ring node within the same Arc (known as intra-ARC), or between ARCs (known as inter-ARC). Intra-ARC circuits can only be provisioned as unprotected due to technical limitations. Circuit traffic can also originate on an Arc sub-ring node and route across and drop from a main ring node, but only when UPSR protection schemes are used.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

ARC Sub-Ring Node Diagram



ARC Sub-Ring Nodes, OC-M < OC-N

OC-48 Dedicated Ring shown as example.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(2)

(c) Re-Map Node ⁽¹⁾

A Re-Map node is a ring node that is pre-equipped and dedicated to customer traffic that is re-mapped/re-routed to it by the Telephone Company (upon notification by the customer of a service outage at another customer premises node on the same dedicated ring).

Re-Map is designed as a temporary service for disaster recovery purposes only. No "normal" customer traffic will be added/dropped at the Re-Map node unless the Re-Map service is activated.

(d) Flex-Ring

Flex-Ring feature provides double the standard bandwidth levels for the Dedicated Ring product. The customer has the ability to double their bandwidth without ordering the next higher ring service.

(1) Double-Rings

Double-Rings will provide the ability to place two rings on the same DSRS equipment. Nodes of the second ring must be the same as the first ring. The second OC-12 and OC-48 ring is available and will require a new TPP upon the upgrade. All nodes on the ring will be at the same level. The additional higher speed optics may contribute to slot exhaustion on the main node. The standard features and components (mileage, ports, etc.) are available as described in Section 29.3(A). The second ring will require another pair of fibers so mileage will apply to both rings. There will only be two rings available on a single SONET ring equipment. The second ring's line rate will be the same as the first ring.

- (1) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.
- (2) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

(2) OC-48 Add/Drop Capability

This provides the capability to add/drop lower speed channels from an OC-48 Dedicated Ring node location via OC-12 and OC-3 ports. OC-48 Add/Drop Capability at an OC-48 Dedicated SONET Ring Service node location will support any combination of service traffic not to exceed 48 STS-1 equivalents. The Add/Drop Capability charge is a monthly, per-node charge that will be applied once a node has 25 DS-3 ports.

Effective November 16, 2020, regarding Add/Drop capabilities, if the number of ports falls below 25 DS-3 ports, customer must notify its Telephone Company account team/sales representative, in writing, to eliminate the charge. Upon receipt of customer's notice and upon eligibility confirmation, the Telephone Company will remove the charge within two billing cycles.

Depending upon the combination of drops, an OC-48 Add/Drop Capability may be required to drop the fill capacity of the ring. When this occurs, the OC-48 Add/Drop Capability rate applies.

(3) Ports

Lower speed channels are accessible at nodes via port terminations. Ports provide access to lower-speed services at each node (e.g. DS1, DS3, STS-1, EC-1, OC-3, 100 Mbps Ethernet, 1 Gbps Ethernet, and possibly OC-12 or OC-48, depending on the bandwidth of the ring). Port configuration requirements are provided by the customer when the Dedicated SONET Ring service is ordered. The capacity of the selected OC-3, OC-12 or OC-48 Dedicated SONET Ring service is determined by the number of individual port-to-port connections available between all nodes on the ring.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(3)

Accepted interfaces are as follows:

	OC-3 Node	OC-12 Node	OC-48 Node
DS1 Ports	X (Max. 84/Node)	X ⁽¹⁾ (Max. 84/OC-3 or OC-3c Port)	X ⁽¹⁾ (Max. 84/OC-3, OC-3c Port)
DS3 Ports	X (Max. 3/Node)	X (Max. 12/Node)	X (Max. 48/Node)
EC-1 Ports	X (Max. 3/Node)	X (Max. 12/Node)	X (Max. 48/Node)
OC-3/3c Ports ⁽²⁾	X (Max. 1/Node)	X (Max. 4/Node)	X (Max. 16/Node)
OC-12/12c Ports ⁽²⁾	N/A	X (Max. 1/Node)	X (Max. 4/Node)
OC-48/48c Ports ⁽²⁾	N/A	N/A	X (Max. 1/Node)
100 Mbps (STS-1) Ethernet Port	X (Max. 3/Node)	X (Max. 12/Node)	X (Max. 48/Node)
100 Mbps (STS-3c) Ethernet Port	N/A	X (Max. 4/Node)	X (Max. 16/Node)
1 Gbps (STS-1) Ethernet Port	X (Max. 3/Node)	X (Max. 12/Node)	X (Max. 48/Node)
1 Gbps (STS-3c) Ethernet Port	N/A	X (Max. 4/Node)	X (Max. 16/Node)
1 Gbps (STS-12c) Ethernet Port	N/A	N/A	X (Max. 4/Node)
1 Gbps (STS-24c) Ethernet Port	N/A	N/A	X (Max. 2/Node)
10/100 BaseT Ethernet Port			
VT1.5-1v (1.6 Mbps)	X (Max. 84/Node)	X (Max. 84/OC-3)	X (Max. 84/OC-3)
VT1.5-2v (3.2 Mbps)	X (Max. 42/Node)	X (Max. 42/OC-3)	X (Max. 42/OC-3)
VT1.5-3v (4.8 Mbps)	X (Max. 28/Node)	X (Max. 28/OC-3)	X (Max. 28/OC-3)
VT1.5-4v (6.4 Mbps)	X (Max. 21/Node)	X (Max. 21/OC-3)	X (Max. 21/OC-3)
VT1.5-5v (8.0 Mbps)	X (Max. 16/Node)	X (Max. 16/OC-3)	X (Max. 16/OC-3)
VT1.5-6v (9.6 Mbps)	X (Max. 14/Node)	X (Max. 14/OC-3)	X (Max. 14/OC-3)
VT1.5-7v (11.2 Mbps)	X (Max. 12/Node)	X (Max. 12/OC-3)	X (Max. 12/OC-3)
VT1.5-8v (12.40 Mbps)	X (Max. 10/Node)	X (Max. 10/OC-3)	X (Max. 10/OC-3)
VT1.5-10v (16.0 Mbps)	X (Max. 8/Node)	X (Max. 8/OC-3)	X (Max. 8/OC-3)
VT1.5-13v (20.8 Mbps)	X (Max. 6/Node)	X (Max. 6/OC-3)	X (Max. 6/OC-3)
STS-1-1v (48.38 Mbps)	X (Max. 3/Node)	X (Max. 12/Node)	X (Max. 48/Node)
STS-1-2v (96.77 Mbps)	X (Max. 1/Node)	X (Max. 6/Node)	X (Max. 24/Node)
1000 BaseSX/LX Ethernet Port			
STS-1-1v (48.38 Mbps)	X (Max. 3/Node)	X (Max. 12/Node)	X (Max. 48/Node)
STS-1-2v (96.77 Mbps)	X (Max. 1/Node)	X (Max. 6/Node)	X (Max. 24/Node)
STS-1-3v (145.15 Mbps)	X (Max. 1/Node)	X (Max. 4/Node)	X (Max. 16/Node)
STS-1-4v (193.54 Mbps)	N/A	X (Max. 3/Node)	X (Max. 12/Node)
STS-1-5v (241.92 Mbps)	N/A	X (Max. 2/Node)	X (Max. 9/Node)
STS-1-6v (290.30 Mbps)	N/A	X (Max. 2/Node)	X (Max. 8/Node)
STS 1-9v (435.46 Mbps)	N/A	X (Max. 1/Node)	X (Max. 5/Node)
STS-1-12v (580.61 Mbps)	N/A	X (Max. 1/Node)	X (Max. 4/Node)
STS-1-21v (1016.06 Mbps)	N/A	N/A	X (Max. 2/Node)
STS-3c-1v (149.76 Mbps)	N/A	X (Max. 4/Node)	X (Max. 16/Node)
STS-3c-2v (299.52 Mbps)	N/A	X (Max. 2/Node)	X (Max. 8/Node)
STS-3c-3v (449.28 Mbps)	N/A	X (Max. 1/Node)	X (Max. 5/Node)
STS-3c-4v (599.04 Mbps)	N/A	X (Max. 1/Node)	X (Max. 4/Node)
STS-3c-7v (1048.32 Mbps)	N/A	N/A	X (Max. 2/Node)

- (1) Optical to Electrical DS1 Add/Drop Capability, as described in Section 29.3(A)(5), is needed along with an OC-3 port.
- (2) OC-3 and OC-3c ports support both OC-3 and OC-3c bandwidths. OC-12 and OC-12c ports support both OC-12 and OC-12c bandwidths. OC-48 and OC-48c ports support both OC-48 and OC-48c bandwidths.
- (3) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(2)

By using the existing OC-3 or OC-12 Service and cross-connection capability, OC-3 point-to-point service may connect to an OC-3 port of an OC-12 or OC-48 ring, or OC-12 point-to-point service may connect to an OC-12 port of an OC-48 ring located in a Telephone Company CO.

An OC-3 port will permit the connection of STS-1 channels to other STS-1 channels across the OC-12 or OC-48 Dedicated SONET Ring Service, subject to the overall ring capacity limits described in Section 29.3(A)(7). Also, an STS-1 channel with DS1 payload mapping accessing an OC-12 Dedicated SONET Ring using an OC-3 port may be connected to the Optical-to-Electrical DS1 Add/Drop Capability for the purpose of connecting up to 28 DS1 ports. An STS-1 channel with DS3 payload mapping accessing the OC-12 or OC-48 Dedicated SONET Ring using an OC-3 port may individually connect to a DS3 or EC-1 port.

When a customer orders a Re-Map node,⁽¹⁾ a minimum number of Re-Map ports must be equipped;

OC-3	28 DS1 Re-Map ports, or 1 DS3 Re-Map port
OC-12	28 DS1 Re-Map ports, or 3 DS3 Re-Map ports, or 1 OC-3 or OC-3c Re-Map port
OC-48	28 DS1 Re-Map ports, or 3 DS3 Re-Map ports, or 1 OC-3 or OC-3c Re-Map port or 1 OC-12 Re-Map port

Re-Map node ports must be ordered in incremental blocks as described below:

Port Type

	DS1	DS3	OC-3 or OC-3c	OC-12 or OC-12c	OC-48
OC-3 Ring	28, 56 or 84 (multiples of 28)	1, 2, or 3	1 OC-3	N/A	N/A
OC-12 Ring	28, 56 or 84 (multiples of 28)	3, 6, 9, or 12	1, 2, 3, or 4	1 OC-12	N/A
OC-48 Ring	28, 56 or 84 (multiples of 28)	3, 6, 9... or 48	1, 2, 3... or 16	1, 2, 3 or 4	1 OC-48

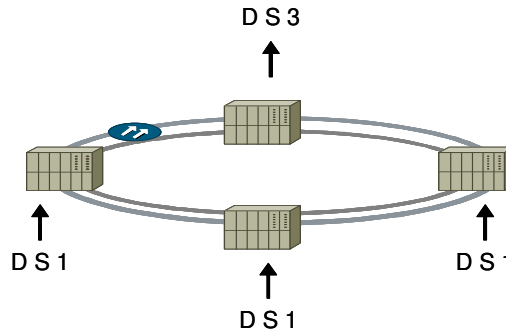
An OC-12 or OC-48 ring utilizing Re-Map requires an OC-3 or OC-3c Re-Map port and DS1 Re-Map Add/Drop Capability to support DS1 port types. (An OC-3 or OC-3c Re-Map port and DS1 Re-Map Add/Drop Capability supports up to 84 DS1's.)

- (1) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.
- (2) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

Transmux

DS3 Transmux is available on all speeds and provides the ability to aggregate multiple DS1s to a DS3 within the SONET Ring and also on a single card. DS1s are aggregated across the SONET network and terminated into a single DS3 card at a ring node. The hand-off will be a channelized DS3. Aggregation of DS1s can occur across multiple DS3/STSSs.

(4) Mileage

Mileage charges apply to the varying configurations of Dedicated SONET Ring Service. Mileage is the total airline distance between the serving wire center of each node involved in the ring. Mileage is charged based on V&H miles determined from National Exchanges Carrier Association, Inc. Tariff FCC No. 4. Fractions of a mile are rounded up to the whole mile for rate calculations.

For the dedicated ring recurring mileage is for the interoffice facilities between nodes. The chargeable mileage is that mileage per link exceeding the ten miles. Distance obtained from V&H coordinates set forth in National Exchanges Carrier Association, Inc. Tariff FCC No. 4, will determine the chargeable mileage on a per link basis. The V&H Coordinates of the normal serving wire center of the customer premises will be used for calculating mileage from Premises Nodes. The monthly mileage charge for the dedicated ring is determined by multiplying the applicable rate times the chargeable mileage.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(2)

(5) Optical to Electrical DS1 Add/Drop Capability ⁽¹⁾

This option allows an electrical DS1 to be derived from an optical OC-12 or OC-48 ring by using this capability to add/drop the electrical DS1 from an OC-3 port. The Optical-to-Electrical DS1 Add/Drop Capability charge is a monthly per-node charge and will be applied once a node has 85 or more DS-1 ports. Additional charges will apply per each subsequent increment of 84 DS-1 ports.

Effective November 16, 2020, regarding Add/Drop capabilities, if the number of ports falls below 85 DS-1 ports per OC-12 node, or falls below 84 DS-1 ports per each subsequent increment, customer must notify its Telephone Company account team/sales representative, in writing, to eliminate the charge. Upon receipt of customer's notice and upon eligibility confirmation, the Telephone Company will remove the charge within two billing cycles.

For SONET Rings established after 08/02/07, the Optical-to-Electrical DS-1 Add/Drop Capability charge is a monthly per-node charge and will be applied once a node has 29 DS-1 ports per OC-48 node.

Effective November 16, 2020, regarding Add/Drop capabilities, if the number of ports falls below 29 DS-1 ports per OC-48 node, customer must notify its Telephone Company account team/sales representative, in writing, to eliminate the charge. Upon receipt of customer's notice and upon eligibility confirmation, the Telephone Company will remove the charge within two billing cycles.

(6) Dedicated SONET Ring Regenerator

Regenerators provide essential detection and retransmission of SONET Optical 155.52 Mbps, 622.08 Mbps and 2488.32 Mbps signals between nodes. Regenerators will only be provided as required by the Telephone Company when actual fiber facility distances between nodes exceed inter-nodal design limits (typically 20 to 25 miles). Regenerators will be located exclusively in Telephone Company COs, and do not allow ports to access customer service connections.

(1) Optical to Electrical DS1 Add/Drop Capability as described in 29.3

(A) (5), following, is needed along with an OC-3 port.

(2) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

Material previously appearing on this page now appears on page 13.1

(1)

(7) Dedicated SONET Ring Connection Capacity

Maximum transport capacity of OC-3, OC-12 and OC-48 Dedicated SONET Ring Service is characterized by the total quantity of individual port-to-port connections allowed between all nodes on the ring. The DS3 Port connections shown below in this section can be exchanged with EC-1 Port connections.

For OC-3 Dedicated SONET Ring Service, the maximum ring capacity will be equal to one of the following combinations:

DS3 Port to DS3 Port Connections		DS1 Port to DS1 Port Connections	
Three	and	None	
Two	and	Up to 28	
One	and	Up to 56	
None	and	Up to 84	

An OC-3 sub-ring or Arc sub-ring provided as part of OC-12 or OC-48 Dedicated SONET Ring Service has a maximum capacity equal to one of the above combinations.

For OC-3 Dedicated SONET Ring Service and OC-3 sub-rings or Arc sub-rings, as part of OC-12 or OC-48 Dedicated SONET Ring Service, individual DS1 port-to-DS1 port and DS3 port-to-DS3 port connection capacities may be incrementally distributed between nodes on the ring in any manner.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

For OC-12 Dedicated SONET Ring Service, the maximum ring capacity will be equal to one of the following combinations:

DS3 Port to DS3 Port Connections		DS1 Port to DS1 Port Connections	
Twelve	and	None	
Eleven	and	One Group of 28	
Ten	and	Two Groups of 28 (56)	
Nine	and	Three Groups of 28 (84)	
Eight	and	Four Groups of 28 (112)	
Seven	and	Five Groups of 28 (140)	
Six	and	Six Groups of 28 (168)	
Five	and	Seven Groups of 28 (196)	
Four	and	Eight Groups of 28 (224)	
Three	and	Nine Groups of 28 (252)	
Two	and	Ten Groups of 28 (280)	
One	and	Eleven Groups of 28 (308)	
None	and	Twelve Groups of 28 (336)	

An OC-12 sub-ring or Arc sub-ring provided as part of OC-48 Dedicated SONET Ring Service has a maximum capacity equal to one of the above combinations.

For OC-12 Dedicated SONET Ring Service and OC-12 sub-rings or Arc sub-rings, as part of OC-48 Dedicated SONET Ring Service, individual DS1 port-to-DS1 port connection and DS3 port-to-DS3 port connection capacities may be incrementally distributed between nodes on the ring in any manner.

OC-12 Dedicated SONET Ring Service will also provide capability for node-to-node connection of STS-1 or STS-3c channels using OC-3 or OC-3c ports on the OC-12 ring. Each STS-1 to STS-1 channel connection or STS-1 channel to DS3 port connection requested by the customer will reduce the remaining ring capacity by the equivalent of one DS3 port-to-DS3 port connection or 28 DS1 port-to-DS1 port connections. Each STS-3c to STS-3c channel connection requested by the customer will reduce the remaining ring capacity by the equivalent of three DS3 port-to-DS3 port connections or 84 DS1 port-to-DS1 port connections.

An OC-3 Sub-ring provided as part of an OC-12 Dedicated SONET Ring Service reduces the remaining OC-12 ring capacity by the equivalent of three DS3 port-to-DS3 port connections or 84 DS1 port-to-DS1 port connections.

Depending upon the combination of drops, an Optical to Electrical DS-1 Add/Drop Capability may be required to drop the full capacity of the ring. When this occurs, the Optical to Electrical DS-1 Add/Drop Capability rate applies.

Even though the table above does not show OC-3, 10/100 Mb, and 1 Gb amounts, the maximum node to node capacity is equal to 12 STS equivalents with any combination of DS-1s, DS-3s, and OC-3s, 10/100 Mb, and 1 Gb ports.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

For OC-48 Dedicated SONET Ring Service, the maximum ring capacity will be equal to one of the following combinations:

DS3 Port-to-DS3 Port Connections	DS1 Port-to-DS1 Port Connections
Forty-eight	and None
Forty-seven	and One Group of 28
Forty-six	and Two Groups of 28 (56)
Forty-five	and Three Groups of 28 (84)
Forty-four	and Four Groups of 28 (112)
Forty-three	and Five Groups of 28 (140)
Forty-two	and Six Groups of 28 (168)
Forty-one	and Seven Groups of 28 (196)
Forty	and Eight Groups of 28 (224)
Thirty-nine	and Nine Groups of 28 (252)
Thirty-eight	and Ten Groups of 28 (280)
Thirty-seven	and Eleven Groups of 28 (308)
Thirty-six	and Twelve Groups of 28 (336)
Continuing down the scale to:	
None	and Forty-eight Groups of 28 (1344)

For OC-48 Dedicated SONET Ring Service, individual DS1 port-to-DS1 port connection capacities may be distributed only in incremental groups of 28 between any two nodes on the ring. Individual DS3 port-to-DS3 port connection capacities may be incrementally distributed between nodes on the ring in any manner.

OC-48 Dedicated SONET Ring Service also provides capability for node-to-node connection of STS-1 or STS-3c channels using OC-3 or OC-12, 100 Mbps Ethernet and 1 Gbps Ethernet ports on the OC-48 ring. Each STS-1 to STS-1 channel connection or STS-1 channel to DS3 port connection requested by the customer reduces the remaining ring capacity by the equivalent of one DS3 port-to-port connection or 28 DS1 port-to-port connections. Each STS-3c to STS-3c channel connection requested by the customer reduces the remaining ring capacity by the equivalent of three DS3 port-to-DS3 port connections or 84 DS1 port-to-DS1 port connections.

An OC-3 Sub-ring provided as part of OC-48 Dedicated SONET Ring Service reduces the remaining OC-48 ring capacity by the equivalent of three DS3 port-to-DS3 port connections or 84 DS1 port-to-DS1 port connections.

Depending upon the combination of drops, an Optical to Electrical DS-1 Add/Drop Capability may be required to drop the full capacity of the ring. When this occurs, the Optical to Electrical DS-1 Add/Drop Capability rate applies.

Even though the table above does not show OC-3, 10/100 Mb, and 1 Gb amounts, the maximum node to node capacity is equal to 12 STS equivalents with any combination of DS-1s, DS-3s, and OC-3s, 10/100 Mb, and 1 Gb ports.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

OC-48 Dedicated SONET Ring Service also provides capability for node-to-node connections of STS-12c channels using OC-12 ports on the OC-48 ring. Each STS-12c to STS-12c channel connection requested by the customer reduces the remaining ring capacity by the equivalent of twelve DS3 port-to-DS3 port connections or 336 DS1 port-to-DS1 port connections.

An OC-12 Sub-ring provided as part of OC-48 Dedicated SONET Ring Service reduces the remaining OC-48 ring capacity by the equivalent of twelve DS3 port-to-DS3 port connections or 336 DS1 port-to-DS1 port connections.

Ethernet over SONET (EoS) allows the efficient transport of Ethernet frames using SONET. Ethernet ports will be available in bandwidths up to the Ethernet interface of 100 Mbps or 1 Gbps on Dedicated SONET Ring Services. As SONET bandwidths will be preset, the customer will be unable to transmit data (including any bursts) beyond these preset SONET bandwidths. Interfaces of 100 Mbps Ethernet or 1 Gbps Ethernet are available only to customers with Next Generation SONET equipment. Only Single-Mode Fiber is available in the Central Office. The EoS line rates, defined in Section 29.4 (C), are based on the theoretical SONET payload line rates as per GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.

Additional features are provided with the Ethernet over SONET (EoS) capability:

Virtual Concatenation (VCAT) provides the ability and flexibility to size the customer's bandwidth, sub-rate VT1.5 and super-rate STS-1 and 3c service payloads, based on their traffic requirements. For transport of payloads that do not fit efficiently into the standard set of VT1.5, STS-1 and STS-Nc payload envelopes, virtual concatenation can be used.

(8) Electrical Connection - Level 1 (EC-1)

EC-1 is an electrical interface that can transport up to 51.84 Mb of bandwidth in a concatenated format. The EC-1 port is available on an OC-3, OC-12 and OC-48 ring. For the above connection capacity charts, the quantity of EC-1 ports is equivalent to the connection capacity of a DS-3.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(3)

(B) Term Pricing Plan^{(1) (2)}(1) General Description

Dedicated SONET Rings are available for either 12-, 36- or 60-month^{(2) (3)} Term Pricing Plan (TPP) periods. Monthly recurring charges apply for the nodes, ports, mileage between nodes, and regenerators.

(2) Nonrecurring Charges

Nonrecurring Charges, as set forth in Section 29.4, will apply for those arrangements ordered under the Dedicated SONET Ring TPP⁽²⁾.

(3) Rate Flow Through

Any decreases in recurring rates will be passed on to customers who participate in the TPP. The Telephone Company will notify customers participating in the TPP when monthly rates are decreased.

Should the Telephone Company increase its rates during the TPP period, the customer will pay the increased rates as long as the increase does not exceed the original rate in effect at the time the customer established service under the TPP.

(4) Subsequent Activity on the Ring

If new rate elements, as described in Section 29.3(A), are added after the initial installation of the dedicated ring, the new rate element will carry the same TPP rate as the initial ring. All new rate element's terms will be independent of the term of the initial ring. If a new rate element is added during the last 12 months or less of a TPP, the customer will be billed the initial TPP ring rate for a minimum period of 12 months. If the ring is disconnected before the new rate element's term expires, termination liability for that new rate element will apply.

- (1) All term plans for Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.
- (2) Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.
- (3) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(2)

(5) Renegotiation

The customer may choose to terminate an existing TPP any time prior to the end of the 36- or 60-month^{(1) (2)} period and negotiate a new TPP without termination liability, provided the new TPP meets the following requirements:

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

An existing 36-month TPP may be converted into a 60-month^{(1) (2)} TPP without termination liabilities, provided that:

- the 36-month TPP has not ended, and
- the converted TPP must be based upon the rates that are currently in effect and otherwise available to all customers.

When the customer converts to a 60-month^{(1) (2)} TPP, actual time in service for the original TPP will be applied to the new TPP. However, no credits or refunds will apply for the billing of actual time in service for the previous TPP.

The customer must meet the following to qualify for the renegotiation clause, without incurring Termination Liability charges.

- (1) The customer subscribes to a new higher speed Term Pricing Plan period that is equal to, or greater than 36 months^{(1) (2)};
- (2) The expiration date for the new Term Pricing Plan period is beyond the end of the original Term Pricing Plan period;
- (3) No lapse in service occurs;
- (4) Nonrecurring Charges will apply, when applicable;
- (5) The monthly rates for the new service will be those rates in effect at the time the new service is installed;
- (6) The new service is provided between the same customer locations and with the same customer of record as the disconnected service;
- (7) The billed monthly recurring revenue for the new service is equal to or greater than the billed monthly recurring revenue remaining in the service being converted; and
- (8) Spare facilities and equipment must be available or a nonrecurring upfront payment, which is a Special Construction charge, may apply.

(1) Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.

(2) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(2)

(6) Renewal

- (a) The customer must provide the Telephone Company with a written notice of intent to renew a TPP no later than 60 days prior to its expiration.
- (b) The customer will continue to be billed at the current TPP rates.
- (c) The new TPP must be for a 36- or 60-month^{(1) (2)} period.
- (d) If the customer does not renew the TPP or does not notify the Telephone Company of its intent to renew the TPP, the customer's service will convert to the Monthly Extension rate until the customer cancels or renews the service with a new TPP term.

(7) Termination of Service

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

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

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

(C) Moves(1) Moves within a Customer's Premises

A move involves a change in the physical location of the Point of Termination on the customer's premises. Such moves will be treated as an extension of Dedicated SONET Ring facilities. Extension of Dedicated SONET Ring facilities will be provided, at the customer's request, on a time-sensitive charge basis. The labor rates that apply are set forth in Section 13. There will be no change in the TPP term requirements.

(2) Moves of Dedicated SONET Ring Nodes

Moves of Dedicated SONET Ring nodes requested by the customer will be billed time and material for charges incurred. No change in the billing period is required. Termination Liability charges will not apply to moves of Dedicated SONET Ring nodes. If an additional location, monthly node is placed to facilitate migration of services to the new node location, monthly node charges will apply to both the additional node and the node being moved during the period for service transition.

- (1) Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.
- (2) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(4)

(D) Upgrades of Dedicated SONET Ring Service to Higher Speed Services⁽²⁾

Customers with 36- or 60-month^{(3) (4)} Dedicated SONET Ring Service TPPs may at any time upgrade to a higher speed service (e.g., OC-3 to OC-12), without incurring the Termination Liability charge, providing the following criteria are met:

- (1) The customer subscribes to a new higher speed Term Pricing Plan period that is equal to, or greater than, 36 months^{(3) (4)};
- (2) The expiration date for the new Term Pricing Plan period is beyond the end of the original Term Pricing Plan period;
- (3) No lapse in service occurs;
- (4) Nonrecurring Charges will apply;
- (5) The monthly rates for the new service will be those rates in effect at the time the new service is installed;
- (6) The new service is provided between the same customer locations and with the same customer of record as the disconnected service;
- (7) The billed monthly recurring revenue for the new service is equal to or greater than the billed monthly recurring revenue remaining in the service being converted;
- (8) Spare facilities and equipment must be available or a nonrecurring upfront payment, which is a Special Construction charge, will apply; and
- (9) Existing service must have been in place for a minimum of 12 months.⁽¹⁾

(1) This criteria does not apply to term plans purchased prior to 03/18/06.

(2) All term plans for Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.

(3) Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.

(4) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(3)

(E) Conversion to Dedicated SONET Ring Service⁽²⁾ from Other Services

Customers may convert to one of the following existing services to Dedicated SONET Ring Service, without incurring the Termination Liability charges for those existing services, as long as the minimum requirements in that section of the Guidebook for waiver of the Termination Liability charges are met. The DS3 and OCN Point-to-Point Service sections will depict applicable termination liability exemptions.

The following services found in Tariff F.C.C. No. 1 and this Guidebook may be upgraded to Dedicated SONET Ring⁽²⁾:

- (1) Fiber Advantage Service: Tariff F.C.C. No. 1, Section 7.4.11(E)
- (2) SONET Ring and Access Service⁽¹⁾: Tariff F.C.C. No. 1, Section 7.4.16(B)
- (3) Optical Carrier Network Point-to-Point⁽²⁾: Part 7, Section 32 of this Guidebook

The customer must meet the following to qualify for conversions without incurring Termination Liability charges.

- (1) The customer subscribes to a new higher speed Term Pricing Plan period that is equal to, or greater than, 36 months^{(2) (3)};
 - (2) The expiration date for the new Term Pricing Plan period is beyond the end of the original Term Pricing Plan period;
 - (3) No lapse in service occurs;
 - (4) Nonrecurring Charges will apply, when applicable;
 - (5) The monthly rates for the new service will be those rates in effect at the time the new service is installed;
 - (6) The new service is provided between the same customer locations and with the same customer of record as the disconnected service;
 - (7) The billed monthly recurring revenue for the new service is equal to or greater than the billed monthly recurring revenue remaining in the service being converted; and
 - (8) Spare facilities and equipment must be available or a nonrecurring upfront payment, which is a Special Construction charge, may apply.
- (1) Effective 01/03/06, SONET Ring and Access Service is limited to existing customers at existing locations except where spare capacity exists; customers may add additional locations on existing rings. New SONET ring services will be provided via Dedicated SONET Ring Service.
 - (2) Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.
 - (3) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(4)

(F) Shared Network Arrangement ⁽¹⁾

A Shared Network Arrangement is a service offering that enables a customer ("Service User") to connect subtending services to an OC-3, OC-12 or OC-48 Dedicated SONET Ring service⁽³⁾ of another customer (the "Host Subscriber"), with the Telephone Company maintaining separate billing for each. Each customer will be billed for those rate elements associated with their own portion of the service configuration. The Host Subscriber will be responsible for all Dedicated SONET Ring Service⁽³⁾ rate elements (for example, node, ports and mileage, etc). Under no circumstances will the rates or charges for individual rate elements be split. This offering is limited to service configurations where a Service User orders a subtending service dropped from a Host Subscriber's Dedicated SONET Ring wire center node.

Under the Shared Network Arrangement, the Telephone Company may share record information with the Host Subscriber pertaining to the services of other users of the shared network. Such disclosure will be under the sole discretion of the Telephone Company and is necessary to perform billing reconciliation and/or other functions required in connection with maintaining account records.

(G) Re-Map Service ⁽²⁾

Re-Map Service is provided in conjunction with Dedicated SONET Ring Service⁽³⁾ and allows for a pre-defined set of services to be re-routed by the Telephone Company from one customer premises node to another customer premises node (defined as a "Re-Map node") in the event of a customer premises disaster. Re-Map service will be tested at initial installation and once each year thereafter. Additional testing can be requested and will be charged on a per test basis. Activation upon customer request in the event of an emergency will be charged on a per occurrence basis.

Once the customer notifies the Telephone Company that they are ready to receive signals to the Re-Map node site, the Telephone Company will Re-Map up to 50 circuits within the initial hours and 20 circuits every hour thereafter. The Emergency Activation Nonrecurring Charge will not be applied if the first 50 circuits are not Re-Mapped within 4 hours due to a Telephone Company-caused delay.

Re-Map Service is available on Self-Healing Uni-Directional Path Switched Rings (UPSR) only.

- (1) Effective 05/26/06, this condition is limited to existing customers. For new customers purchasing Shared Network Arrangement, terms and conditions set forth in Part 2, Section 5 of this Guidebook, will apply.
- (2) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.
- (3) Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.
- (4) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

Re-Map testing or activation for OC-3 or OC-12 service requires a minimum of one DS1 (VT1.5), or 1 DS3 (STS-1) between one customer premises node and the Re-Map node. Re-Map testing or activation for OC-12 or OC-48 service requires a minimum incremental group from 1 to 28 DS1s or one DS3 (equals one STS-1) between one customer premises node and the Re-Map node.

The emergency Re-Map activation configuration will be maintained for up to 30 days. After 30 days, if the customer wishes to maintain the emergency configuration, the Emergency Activation Nonrecurring Charge will be applied once for each 30 day additional period.

(H) Shared Use

Shared Use occurs when Switched Access and Special Access services are provided over the same analog or digital high capacity facility or SONET based service through a common interface. The conditions governing the provision of Shared Use are set forth in 5.2.10 and 6.7.15 of Tariff F.C.C. No. 1.

While Shared Use of SONET facilities (i.e., Dedicated SONET Ring Service) for Switched Access Transport is permitted, the SONET Special Access facilities continue to be rated as Special Access.

(I) STS-1 Service

The STS-1 circuit allows the efficient transport of up to 51.84 Mbps of bandwidth across Dedicated SONET Ring utilizing EC-1 (Electrical Connection - Level 1) ports on the dedicated service. While the EC-1 port is comparable to the DS-3 port as far as the connection capacity per STS, the STS-1 circuit utilizes the entire bandwidth of the STS (51.84 Mbps) while the DS-3 uses 44.76 Mbps of the STS. The STS-1 circuit is available via EC-1 ports on OC-3, OC-12 and OC-48 rings.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

(J) Unprotected Channel Transport (UCT)

UCT will allow customers to transport traffic (DS-1, DS-3, up to OC-48), over a ring without enabling SONET protection schemes. This is intended for applications in which the customer provides protection for the circuit through means other than those available through SONET. If a fault occurs on the ring along the transport path, the traffic will not be switched to a protection channel. Service will be interrupted on that circuit until the fault is corrected. The customer is required to call in and open a trouble ticket for the unprotected service. If a fault occurs in the ring, but does not occur along the transport route, service will not be interrupted on that circuit.

Customers who order Dedicated SONET Ring Service may need to replace or upgrade their existing service to invoke use of UCT for circuit assignments. Use of UCT is managed through a Special Routing Code (SRC) in relation to a circuit's Connecting Facility Assignment (CFA). When an Unprotected service is placed on a channel, the protection switching is shut off. When a UCT is disconnected, the channel will revert back to the standard protection mode.

(K) Jointly Provided Service(1) General

DSRS may be available in a meet-point billing arrangement involving another Incumbent Local Exchange Carrier (ILEC) (sometimes also referred to as an Independent Company or ICO), where suitable facilities exist and where appropriate procedures for such arrangement have been put in place between the Telephone Company and the other ILEC. When the Telephone Company and another ILEC jointly provide a meet-point ring arrangement, each ILEC involved shall provision and bill the portion of service located in its operating territory according to the terms and conditions of that ILEC's applicable tariffs or other service publications. Meet-point billing arrangements are not available for OC-3 DSRS.

(2) Ordering

The Customer shall order DSRS Service by issuing an access order, or by such other means for the exchange telephone companies to provision on the ring in each exchange telephone company territory. The Customer will place the order for service as set forth in the ordering conditions for the requested service.

(3) Credit Allowance for Service Interruption

DSRS, provided in a meet-point arrangement, is subject to the general terms and conditions in Part 2, Section 2, including, without limitation, the exclusions applicable to Credit Allowances for Service Interruptions, as provided in Part 2, Section 2.5.6(F). As clarification, but not to modify any such terms and conditions, a Credit Allowance for Service Interruptions shall not apply to any service interruption resulting from any failure attributable to the other ILEC jointly providing the service or otherwise not attributable to the Telephone Company.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

Pages 25 through 32 are hereby deleted in their entirety and removed from this guidebook. Rate previously listed on these pages can be found in Part 7, Section 31.

30. OC-192 Dedicated SONET Ring Service⁽¹⁾30.1 General Description(A) Basic Service Description

OC-192 Dedicated SONET Ring Service is a 9.953 Gbps transport special access service. OC-192 is designed for transport of lower speed services, e.g. DS3, OC-3 or OC-3c, OC-12 or OC-12c, OC-48 or OC-48c and 1 Gbps Ethernet. The dedicated ring is designed to provide increased reliability and functionality by connecting multiple customer locations and specified Telephone Company Central offices via self-healing Rings. OC-192 is a logical extension of the existing SONET products OC-3, OC-3c, OC-12, OC-12c, OC-48 and OC-48c.

The dedicated ring can connect multiple (between 2 and 16) customer-designated locations and telephone company central offices, as described in Section 30.1(B)(1), where SONET facilities and equipment are available. Rate elements include nodes, ports, mileage, regenerators, and add/drop capability. Rates are specified in Section 30.4.

Rates and charges for OC-192 Dedicated SONET Ring Service are set forth in Section 30.4, with the exception of the services provided by the Telephone Company in the Metropolitan Statistical Areas (MSAs) in which the Telephone Company has received Phase II pricing flexibility pursuant to Subpart H of Part 69 of the Commission's Rules. The rates and charges for the OC-192 Dedicated SONET Ring Service in the MSAs that have received Phase II pricing flexibility are set forth in Section 31.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

(B) Service Provisioning(1) Manner of Provisioning

All customers will be served from the nearest suitably equipped end office. Information pertaining to end offices equipped to provide OC-192 Dedicated SONET Ring Service is set forth in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. OC-192 Dedicated SONET Ring Service will be provided subject to the availability and limitations of The Telephone Company's wire centers and outside plant facilities. OC-192 Dedicated SONET Ring Service is only available where technical capabilities permit such facility distance and type of physical plant. Where facilities are not available, Special Construction charges may apply.

(2) Limitations

The Telephone Company does not undertake to originate data, but offers the use of its OC-192 Dedicated SONET Ring Service, where available, to customers for the purpose of transporting data originated by the customer or a third party.

Unprotected services may be interrupted to repair other circuits. In cases where the customer orders OC-192 Dedicated SONET Ring Service with an unprotected 2-fiber service interface, the Telephone Company may provision this unprotected service, with other unprotected services, via a multi-port circuit card. If one unprotected service on the card incurs an outage, the Telephone Company may repair the 2-fiber service interface device by replacing the card, which may temporarily interrupt service on any other unprotected tributary circuits that subtend this same multi-port circuit card. In the event of a service interruption, credit allowance will be provided for the service that suffered the unplanned outage, as outlined in Section 30.1(3).

The Telephone Company will maintain and repair the OC-192 Dedicated SONET Ring Service which it furnishes and will provide the customer reasonable notification of service affecting activities that may occur in the normal operation of business.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

(3) Allowance for Service Interruptions

Dedicated Rings provide Automatic Protection Switching to assure 100 percent availability of the services on the ring. A service interruption will result in a credit equal to one month's bill for the individual port-to-port connection involved. An interruption of service will start when an inoperative service is reported to the Telephone Company and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element.

In the event that protected facilities do not exist, including dual entrance facilities, and the customer does not utilize Special Construction to provide protected facilities, the unprotected OC-192 ring will be provided. In addition, the customer waives the right to receive credit allowances for service interruptions, and waives the SONET Assurance Warranty.

(C) Responsibility of The Telephone Company

The Telephone Company will provision and maintain OC-192 Dedicated SONET Ring Service for the customer up to and including the Network Interface (NI).

(D) Rights of The Telephone Company

The Telephone Company will not provision OC-192 Dedicated SONET Ring Service if it has reasonably determined that (a) it is not technically feasible over existing facilities or (b) it will cause interference problems within The Telephone Company's network or other facilities.

(E) Responsibility of Customer

The customer is responsible for providing compatible customer provided equipment (CPE) to be used for connection to OC-192 Dedicated SONET Ring Service.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(3)

30.2 Technical Specifications

Technical specifications for OC-192 Dedicated SONET Ring Service are listed in the following Telephone Company technical publications:

- (1) AM TR-TMO 000101 Ameritech Digital Service Transmission Parameters for Performance
- (2) AM TR-NIS-000111 Ameritech OC-3, OC-12, OC-48 and OC-192 Service Interface Specifications
- (3) TP 76839 SONET Transmission Requirements Performance and Interface Specification
- (4) TP 76412 SBC Customer Interface Standards for 100 Mbps and Higher Excluding SONET Interfaces

30.3 Rate Conditions(A) Rate Elements(1) Nodes

The ring will provide connectivity to multiple customer designated locations (nodes). However, a ring must have a minimum of two nodes. At least one node must be a Telephone Company Central Office (CO) node. A maximum of 16 nodes including regenerators will be allowed per ring. The Telephone Company reserves the right to determine the order of the nodes on the ring⁽¹⁾.

When a customer premise node is located in the same building as a CO node, diversity between the two nodes may not be available.

If a customer collocates two customer premise nodes of the same speed, on the same dedicated ring, on the same premises, the additional node will be billed as shown in Section 30.4. This option does not guarantee diversity between these two collocated nodes and the rest of the ring.

The customer will be billed time and material as set forth in Part 2, Section 13 of this Guidebook, for any additional charges incurred by the Telephone Company in locating Telephone Company equipment at the customer premises.

(i) Re-Map Node⁽²⁾

A Re-Map node is a ring node that is pre-equipped and dedicated to customer traffic that is re-mapped/re-routed to it by the Telephone Company (upon notification by the customer of a service outage at another customer premises node on the same dedicated ring).

Re-Map is designed as a temporary service for disaster recovery purposes only. No "normal" customer traffic will be added/dropped at the Re-Map node unless the Re-Map service is activated.

- (1) A ring node providing an OC-48 connection to a collocation cage can be considered a customer premise node.
- (2) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.
- (3) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(2)

(ii) Sub-Ring Node

A sub-ring node is a lower speed optical extension off a main ring. It traverses one or more main ring nodes via the use of OC-N port connections on and off the main ring. The primary use of sub-ring nodes is to provide the ability to fully utilize the bandwidth around the ring when the customer requires DS1/VT1.5 circuit paths.

An optional sub-ring node is available at OC-3, OC-12 and OC-48 speeds from an OC-192 main ring. A sub-ring node may only connect to the main ring at the same, or an adjacent, main ring node. A sub-ring node may not connect directly to another sub-ring node.⁽¹⁾

Any service that enters the main ring via a port on a sub-ring node must also exit via a port on another sub-ring node (sub-ring on - sub-ring off).⁽¹⁾ Cascading sub-rings are not allowed off a main ring. Service circuits may not be established between sub-ring nodes connecting to the same main ring node, or between a sub-ring node and a port on the same main ring node to which it connects.

Each sub-ring must be implemented as an OC-M on an OC-N ring with full complement of STS-1s, STS-3s or STS-12s, depending on the bandwidth of the sub-ring, appearing together at all associated sub-ring nodes on a given sub-ring.

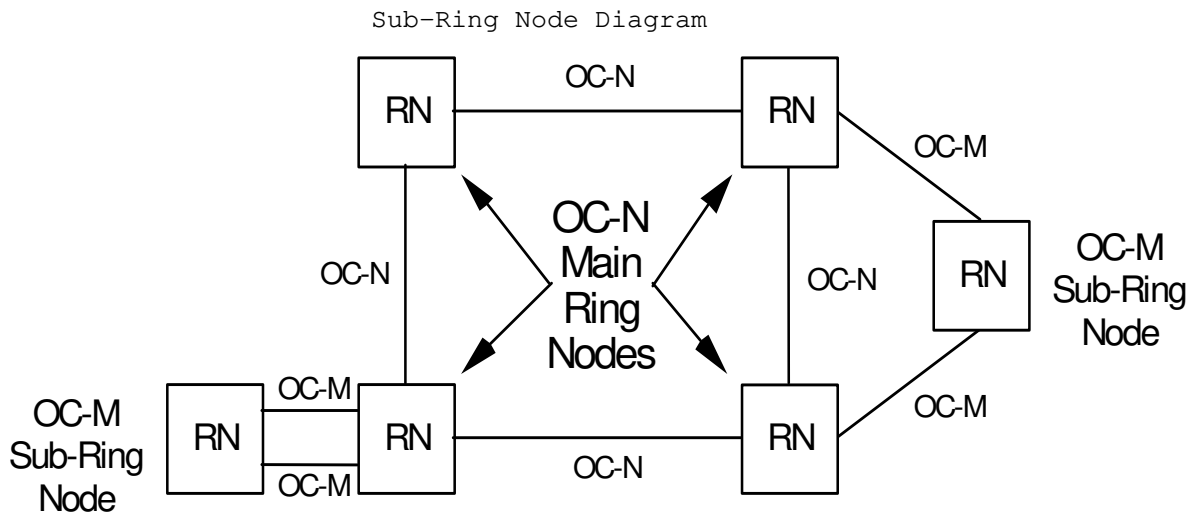
Two OC-N ports and associated node charges apply for each sub-ring node connected to the main ring, as well as applicable mileage for the sub-ring.

A sub-ring node which is collocated with a main ring node at the customers premises (for the same dedicated ring) will be billed as an "Additional Node" as set forth in Section 30.4(A). A sub-ring is not available with a two-node main ring configuration.

A sub-ring node is only available in the Uni-Directional Path Switched Ring (UPSR) mode.

- (1) This restriction does not apply for Next Generation SONET equipment.
- (2) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.
Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)



Sub-Ring Nodes, OC-M < OC-N

(iii) Arc Sub-Ring Node

Arc sub-ring nodes are only available on Next Generation SONET equipment with service installed after November 2, 2007. An Arc sub-ring node is a lower speed optical extension off a main ring. It connects to one main ring node via the use of OC-N port connections from and to a main ring. The primary use of Arc sub-ring nodes is to add other locations to the ring that will utilize minimal amounts of bandwidth from the main ring.

Arc sub-rings are only available off of UPSR main rings. Arc sub-rings are only available where facilities and/or operating conditions permit, as determined by the Telephone Company.

An optical Arc sub-ring node is available at OC-3, OC-12 and OC-48 speeds from an OC-192 main ring. An Arc sub-ring node may connect to the main ring at any main ring node.

Cascading Arc sub-rings are not permitted off a main ring. Service entering an Arc sub-ring node cannot drop from the directly connecting main ring node (haripinning).

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(1)

More than one Arc sub-ring may be added to a main ring. Each Arc sub-ring must be implemented as an OC-M on an OC-N ring with a full compliment of STS-1s, 3s or 12s, depending on the bandwidth of the Arc sub-ring, appearing together at all associated Arc sub-ring nodes on a given Arc sub-ring.

Two OC-N ports apply for each Arc sub-ring connected to the main ring. A node charge applies for each Arc sub-ring location. Mileage charges are applicable when the sub-ring is in a different location than the main ring.

An Arc sub-ring node which is collocated in the same room with a main ring node at the customer's premises (for the same dedicated ring) will be billed as an "Additional Node."

Arc sub-rings do not reduce the bandwidth capacity of the main ring. As services are added to the main or sub-ring, only the bandwidth capacity of the service is reduced.

Arc sub-rings can be provisioned in two basic configurations:

1. Single-node, single-homed ARC
2. Multi-node, single-homed ARC

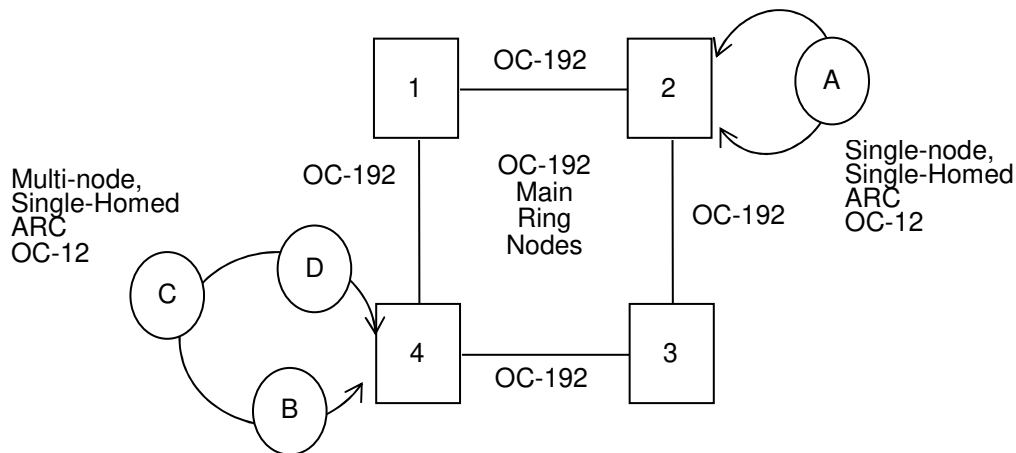
Circuit traffic can be added/dropped from an Arc sub-ring node to another Arc sub-ring node within the same Arc (known as intra-ARC), or between ARCs (known as inter-ARC). Intra-ARC circuits can only be provisioned as unprotected due to technical limitations. Circuit traffic can also originate on an Arc sub-ring node and route across and drop from a main ring node, but only when UPSR protection schemes are used.

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(1)

ARC Sub-Ring Node Diagram



ARC Sub-Ring Nodes, OC-M < OC-N

OC-192 Dedicated Ring shown as example.

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(1)

(2) Add/Drop Capability

This provides the capability to add/drop lower speed channels from an OC-192 Dedicated Ring node location via OC-48 or OC-12 ports. OC-192 Add/Drop Capability at an OC-192 Dedicated SONET Ring Service node location will support various combinations of service traffic not to exceed 192 STS-1 equivalents, contingent upon limitations of drop port capacity.

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

The OC-192 Add/Drop Capability charge is applied to all nodes, excluding regenerators and CO nodes without drop ports.

(3) Ports

Ports provide access to the ring and to lower speed channels (DS3, EC-1, OC-3, OC-3c, OC-12, OC-12c, OC-48, OC-48c, OC-192, 100 Mbps (STS-1) Ethernet, 100 Mbps (STS-3c) Ethernet, 1 Gbps (STS-1) Ethernet, 1 Gbps (STS-3c) Ethernet, 1 Gbps (STS-12c) Ethernet and 1 Gbps (STS-24c) Ethernet) between nodes. Lower speed channels are accessible at nodes via port terminations.

Ethernet over SONET (EoS) allows the efficient transport of Ethernet frames using SONET. Ethernet ports will be available in bandwidths up to the Ethernet interface of 1 Gbps on SONET Ring Services. As SONET bandwidths will be present, the customer will be unable to transmit data (including any bursts) beyond these preset SONET bandwidths. Interfaces of 1 Gbps Ethernet are available only to customers with Next Generation SONET equipment. Access into the Telephone Company's Ethernet ports must conform to industry standards and specifications as described in technical publication SBC-TP-76412-000. Only Single-Mode Fiber is available in the Central Office. The EoS line rates, defined in Section 30.4(C), are based on the theoretical SONET payload line rates as per GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(2)

Accepted interfaces are as follows:

	OC-192 Node
DS1 Ports	x (Max.84/OC-3Port)
DS3 Ports	x (Max.192/Node)
EC-1 Ports	x (Max.192/Node)
OC-3, OC-3c Ports	x (Max.64/Node)
OC-12, OC-12c Ports	x (Max.16/Node)
OC-48, OC-48c Ports	x (Max.4/Node)
OC-192 Ports ⁽¹⁾	x (Max.1/Node)
100 Mbps (STS-1) Ethernet Port	x (Max.192/Node)
100 Mbps (STS-3c) Ethernet Port	x (Max.64/Node)
1 Gbps (STS-1) Ethernet Port	x (Max.192/Node)
1 Gbps (STS-3c) Ethernet Port	x (Max.64/Node)
1 Gbps (STS-12c) Ethernet Port	x (Max.16/Node)
1 Gbps (STS-24c) Ethernet Port	x (Max.8/Node)
10/100 BaseT Ethernet Port	
VT1.5-1v (1.6 Mbps)	X (Max. 84/OC-3)
VT1.5-2v (3.2 Mbps)	X (Max. 42/OC-3)
VT1.5-3v (4.8 Mbps)	X (Max. 28/OC-3)
VT1.5-4v (6.4 Mbps)	X (Max. 21/OC-3)
VT1.5-5v (8.0 Mbps)	X (Max. 16/OC-3)
VT1.5-6v (9.6 Mbps)	X (Max. 14/OC-3)
VT1.5-7v (11.2 Mbps)	X (Max. 12/OC-3)
VT1.5-8v (12.40 Mbps)	X (Max. 10/OC-3)
VT1.5-10v (16.0 Mbps)	X (Max. 8/OC-3)
VT1.5-13v (20.8 Mbps)	X (Max. 6/OC-3)
STS-1-1v (48.38 Mbps)	X (Max. 48/Node)
STS-1-2v (96.77 Mbps)	X (Max. 24/Node)
1000 BaseSX/LX Ethernet Port	
STS-1-1v (48.38 Mbps)	X (Max. 192/Node)
STS-1-2v (96.77 Mbps)	X (Max. 96/Node)
STS-1-3v (145.15 Mbps)	X (Max. 64/Node)
STS-1-4v (193.54 Mbps)	X (Max. 48/Node)
STS-1-5v (241.92 Mbps)	X (Max. 38/Node)
STS-1-6v (290.30 Mbps)	X (Max. 32/Node)
STS-1-9v (435.46 Mbps)	X (Max. 21/Node)
STS-1-12v (580.61 Mbps)	X (Max. 16/Node)
STS-1-21v (1016.06 Mbps)	X (Max. 9/Node)
STS-3c-1v (149.76 Mbps)	X (Max. 64/Node)
STS-3c-2v (299.52 Mbps)	X (Max. 32/Node)
STS-3c-3v (449.28 Mbps)	X (Max. 21/Node)
STS-3c-4v (599.04 Mbps)	X (Max. 16/Node)
STS-3c-7v (1048.32 Mbps)	X (Max. 9/Node)

(1) OC-192 and OC-192c ports support both OC-192 and OC-192c bandwidths.

(2) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.

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(1)

OC-3, OC-3c, OC-12, OC-12c, OC-48, OC-48c and OC-192 ports may be ordered at CO nodes. Both are available for Service-to-Service through Connect with Optical Carrier Network Point-to-Point Service as set forth in Section 32.

(4) Mileage

Mileage is charged as specified in Section 7. Fractions of a mile are rounded up to the whole mile for rate calculations. A one-mile minimum will be billed between nodes. A two-node ring configuration has a two-mile minimum, one mile from the wire center node to the customer premises node, and one mile from the customer premises node to the wire center node.

(5) Ring Regenerator

Regenerators provide essential detection and retransmission of the SONET Optical 9.953 Gbps signal between nodes. Regenerators will only be provided as required by the Telephone Company when actual fiber facility distances between nodes exceed inter-nodal design limits. Regenerators will be located exclusively in Telephone Company COs and do not allow ports to access customer service connections.

(6) Electrical Connection - Level 1 (EC-1)

EC-1 is an electrical interface that can transport up to 51.84 Mb of bandwidth in a concatenated format. The EC-1 port is available on an OC-3, OC-12, OC-48 and OC-192 ring. For the above connection capacity charts, the quantity of EC-1 ports is equivalent to the connection capacity of a DS-3.

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(1)

(B) Dedicated Ring Connection Capacity

Maximum transport capacity of OC-192 Dedicated Ring Service is characterized by the total quantity of individual port-to-port connections allowed between all nodes on the ring.

For OC-192 Dedicated SONET Ring Service, the maximum ring capacity between adjacent nodes is not to exceed 96 STS-1 equivalents.

OC-192 Dedicated SONET Ring Service will provide capability for node-to-node connection of STS-1 or STS-3C channels using OC-3, OC-3c, OC-12, OC-12c, OC-48, OC-48c, 100 Mbps Ethernet or 1 Gbps Ethernet ports on the OC-192 ring.

OC-192 Dedicated SONET Ring Service will provide capability for node-to-node connections of STS-12C channels using OC-12, OC-12c, OC-48, OC-48c or 1 Gbps Ethernet ports on the OC-192 ring.

OC-192 Dedicated SONET Ring Service will provide capability for node-to-node connections of STS-48C channels using OC-48 or OC-48c ports on the OC-192 ring.

Virtual Concatenation (VCAT) provides the ability and flexibility to size the customer's bandwidth, sub-rate VT1.5 and super-rate STS-1 and 3c service payloads, based on their traffic requirements. For transport of payloads that do not fit efficiently into the standard set of VT1.5, STS-Nc payload envelopes, virtual concatenation can be used.

The maximum transport capacity of an OC-3, OC-12 or OC-48 sub-ring or Arc sub-ring is characterized by the total quantity of individual port connections allowed between all nodes on the ring. Refer to DSRS Section 29.3(A) (7) for combinations.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(3)

(C) Term Pricing Plan^{(1) (2)}(1) General Description

OC-192 Dedicated Rings are available for either one, three or five year^{(2) (3)} Term Pricing Plan (TPP) periods. Monthly recurring charges apply for the nodes, ports and mileage.

(2) Nonrecurring Charges

Nonrecurring Charges, including the Administrative Charge as Set forth in Section 30.4, will apply for those arrangements ordered under the OC-192 Ring TPP. The Access Order Charge does not apply.

(3) Rate Flow Through

Any decreases in recurring rates will be passed on to customers who participate in the TPP. The Telephone Company will notify customers participating in the TPP when monthly rates are decreased.

Should the Telephone Company increase its rates during the TPP period, the customer will pay the increased rates as long as the increase does not exceed the original rate in effect at the time the customer established service under the TPP.

(4) Adding Nodes to the Ring

If a node is added after the initial installation of the dedicated ring, the new node will carry the same TPP rate as the initial ring and be co-terminus with that TPP. However, if a node is added during the last 12 months of a TPP, the customer will be billed the initial node rate for a minimum period of 12 months. All applicable Nonrecurring Charges as set forth in Section 30.4 will apply.

(5) TPP Renegotiation

The customer may choose to terminate an existing TPP at any time prior to the end of the three or five year⁽²⁾ period and negotiate a new TPP without termination liability provided the new TPP meets the following requirements:

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

- (1) All term plans for OC-192 Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.
- (2) Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.
- (3) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.
Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

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

(6) Renewal

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

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

If the customer does not renew the TPP, or does not notify the Telephone Company of its intent to renew the TPP, the customer's service will convert to the Monthly Extension rate as set forth in Section 30.4 until the customer cancels or renews the service with a new TPP term. Monthly Extension Rates are not available to new subscriptions.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.

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(1)

(7) Termination of Service

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

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

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

(D) Moves(1) Moves within a Customer's Premises

A move involves a change in the physical location of the Point of Termination on the customer's premises. Such moves will be treated as an extension of OC-192 Ring facilities. Extension of OC-192 Ring facilities will be provided, at the customer's request, on a time-sensitive charge basis. The labor rates that apply are set forth in Part 2, Section 13 of this Guidebook. There will be no change in the TPP term requirements.

(2) Moves of OC-192 Dedicated Ring Nodes

Moves of OC-192 Ring nodes will be provided, at the customer's request, on a time-sensitive charge basis. The charge will not exceed the Nonrecurring Charge for subsequent installation, as specified in Section 30.4(A), for the specific OC-192 Ring node being modified. The labor rates that apply are set forth in Part 2, Section 13. Where facilities are not available, Special Construction charges may apply. No change in billing period is required. Termination charges will not apply to moves of OC-192 Ring nodes.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(3)

(E) Upgrade to OC-192 Dedicated SONET Ring Service⁽²⁾ from lower speed Services⁽¹⁾

Customers with three or five year Rate Stability Payment Plans (RSPP) may at any time upgrade from OC-48 to OC-192 Dedicated SONET Ring Service without incurring the Termination Liability charge, providing the following criteria are met:

- The customer subscribes to a Term Pricing Plan period that is equal to, or greater than 36 months⁽²⁾;
- The expiration date for the new Term Pricing Plan period is beyond the end of the original RSPP period;
- No lapse in service occurs;
- Nonrecurring Charges will apply, when applicable;
- The monthly rates for the new service(s) will be those rates in effect at the time the new service(s) is/are installed;
- The new service is provided between the same customer locations and with the same customer of record as the disconnected service;
- The original location of all nodes must be included in the new service.
- Billed recurring revenue for each month of the first eighteen months of the new service is equal to or greater than the billed recurring revenue for the last month of the service(s) being converted;
- Customer agrees not to convert the new service term pricing plan to a pricing plan with a lower rate for the period of eighteen months after the conversion; and
- Spare facilities and equipment must be available or a nonrecurring upfront payment, which is a Special Construction Charge, may apply.

(F) Migration onto OC-192 Dedicated SONET Ring Service

Billing for the OC-192 Dedicated SONET Ring service will commence upon service order completion for all rate elements. Billing for the existing OC-48 Ring service will continue until the migration of all circuit services on to the new OC-192 Ring is complete at which time the OC-48 Ring service may be disconnected.

- (1) All term plans for OC-192 Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.
- (2) Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.
- (3) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.
Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(2)

(G) Shared Network Arrangement ⁽¹⁾

Shared Network Arrangement is a service offering that enables a customer ("Service User") to connect subtending services to an OC-192 Dedicated SONET Ring service of another customer (the "Host Subscriber"), with the Telephone Company maintaining separate billing for each. Each customer will be billed for those rate elements associated with their own portion of the service configuration. The Host Subscriber will be responsible for all OC-192 Dedicated SONET Ring Service rate elements, for example, node, ports and mileage, etc. Under no circumstances will the rates or charges for individual rate elements be split.

This offering is limited to service configurations where a Service User orders a subtending service dropped from a Host Subscriber's OC-192 Ring wire center node. Under Shared Network Arrangement, the Telephone Company may share record information with the Host Subscriber pertaining to the services of other users of the shared network. Such disclosure will be under the sole discretion of the Telephone Company and is necessary to perform billing reconciliation and/or other functions required in connection with maintaining account records.

(H) Shared Use

Shared Use occurs when Switched Access and Special Access services are provided over the same analog or digital high capacity facility or SONET based service through a common interface. The conditions governing the provision of Shared Use are set forth in 5.2.10 and 6.7.15 of Tariff F.C.C. No. 1.

While Shared Use of SONET facilities (i.e., OC-192 Dedicated SONET Ring Service) for Switched Access Transport is permitted, the SONET Special Access facilities continue to be rated as Special Access.

- (1) Effective 05/26/06, this condition is limited to existing customers. For new customers purchasing Shared Network Arrangement, terms and conditions set forth in Part 2, Section 5 of this Guidebook, will apply.
- (2) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.
Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(2)

(I) Optical-to-Electrical Add/Drop Capability⁽¹⁾

1. The Optical-to-Electrical DS-1 Add/Drop Capability allows an electrical DS-1 to be derived from an optical OC-192 ring by using this capability to add/drop the electrical DS-1 from an OC-3 port.

Effective 06/10/06, Optical-to-Electrical DS-1 Add/Drop Capability will be available from an optical OC-192 shelf.

The Optical-to-Electrical DS-1 Add/Drop Capability charge is applied when the 29th DS-1 port is required per OC-192 node. Additional charges will apply per each subsequent increment of 84 DS-1 ports.

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

2. The Optical-to-Electrical DS-3 Add/Drop Capability allows an electrical DS3 to be derived from an optical OC-3, OC-12 or OC-48 shelf. The manner in which a DS3 is dropped will be designed based on forecast and equipment hierarchy.

For OC-192 SONET Rings established prior to 03/24/05, when electrical drops are required, the Optical-to-Electrical DS-3 Add/Drop Capability charge is a monthly per-node charge that will be applied in addition to the Add/Drop Capability charge.

For OC-192 SONET Rings established after 03/24/05, the Optical-to-Electrical DS-3 Add/Drop Capability charge is a monthly, per-node charge that will be applied once a node has 25 or more DS-3 ports per OC-192 node.

Effective November 16, 2020, regarding Add/Drop capabilities, if the number of ports falls below 25 DS-3 ports per OC-192 node, customer must notify its Telephone Company account team/sales representative, in writing, to eliminate the charge. Upon receipt of customer's notice and upon eligibility confirmation, the Telephone Company will remove the charge within two billing cycles.

- (1) For OC-192 SONET Rings, the OC-192 Add/Drop Capability charge is applied to all nodes, excluding regenerators and CO nodes without drop ports.
- (2) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

Material previously appearing on this page now appears on page 19 of this Section.

(2)

(J) Ethernet Over SONET

Effective January 21, 2004, new orders for OC-192 Dedicated SONET Ring Service with the EoS enhancement will be served by different equipment than the equipment used for customers who placed Dedicated SONET Ring Service orders that were completed prior to January 21, 2004. Customers subscribing to OC-192 Dedicated SONET Ring Service prior to January 21, 2004 requesting a change to the new equipment will incur termination liability charges for their existing service. Disconnect of the existing OC-192 Dedicated SONET Ring Service and placement of an order for new OC-192 Dedicated SONET Ring Service with the EoS enhancement is required. The monthly rates for the new service(s) shall be those rates in effect at the time the new service(s) is installed.

(K) Re-Map Service⁽¹⁾

Re-Map Service is provided in conjunction with Dedicated SONET Ring Service and allows for a pre-defined set of services to be re-routed by the Telephone Company from one customer premises node to another customer premises node (defined as a "Re-Map node") in the event of a customer premises disaster. Re-Map service will be tested at initial installation and once each year thereafter. Additional testing can be requested and will be charged on a per test basis. Activation upon customer request in the event of an emergency will be charged on a per occurrence basis.

Once the customer notifies the Telephone Company that they are ready to receive signals to the Re-Map node site, the Telephone Company will Re-Map up to 50 circuits within the initial hours and 20 circuits every hour thereafter. The Emergency Activation Nonrecurring Charge will not be applied if the first 50 circuits are not Re-Mapped within 4 hours due to a Telephone Company-caused delay.

Re-Map testing and activation for OC-192 service requires a minimum of one DS1 (VT1.5), or 1 DS3 (STS-1) between one customer premises node and the Re-Map node. Re-Map testing or activation for OC-12 or OC-48 service requires a minimum incremental group from 1 to 28 DS1s or one DS3 (equals one STS-1) between one customer premises node and the Re-Map node.

The emergency Re-Map activation configuration will be maintained for up to 30 days. After 30 days, if the customer wishes to maintain the emergency configuration, the Emergency Activation Nonrecurring Charge will be applied once for each 30 day additional period.

Re-Map Service is available on Self-Healing Uni-Directional Path Switched Rings (UPSR) only.

- (1) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.
- (2) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)

(L) STS-1 Service

The STS-1 circuit allows the efficient transport of up to 51.84 Mbps of bandwidth across Dedicated SONET Ring utilizing EC-1 (Electrical Connection - Level 1) ports on the dedicated service. While the EC-1 port is comparable to the DS-3 port as far as the connection capacity per STS, the STS-1 circuit utilizes the entire bandwidth of the STS (51.84 Mbps) while the DS-3 uses 44.76 Mbps of the STS. The STS-1 circuit is available via EC-1 ports on an OC-192 ring.

(M) Unprotected Channel Transport (UCT)

UCT will allow customers to transport traffic (DS-1, DS-3, up to OC-48), over a ring without enabling SONET protection schemes. This is intended for applications in which the customer provides protection for the circuit through means other than those available through SONET. If a fault occurs on the ring along the transport path, the traffic will not be switched to a protection channel. Service will be interrupted on that circuit until the fault is corrected. The customer is required to call in and open a trouble ticket for the unprotected service. If a fault occurs in the ring, but does not occur along the transport route, service will not be interrupted on that circuit.

Customers who order Dedicated SONET Ring Service may need to replace or upgrade their existing service to invoke use of UCT for circuit assignments. Use of UCT is managed through a Special Routing Code (SRC) in relation to a circuit's Connecting Facility Assignment (CFA). When an Unprotected service is placed on a channel, the protection switching is shut off. When a UCT is disconnected, the channel will revert back to the standard protection mode.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(1)(N) Jointly Provided Service(1) General

OC-192 Dedicated SONET Ring Service may be available in a meet-point billing arrangement involving another Incumbent Local Exchange Carrier (ILEC) (sometimes also referred to as an Independent Company or ICO), where suitable facilities exist and where appropriate procedures for such arrangement have been put in place between the Telephone Company and the other ILEC. When the Telephone Company and another ILEC jointly provide a meet-point ring arrangement, each ILEC involved shall provision and bill the portion of service located in its operating territory according to the terms and conditions of that ILEC's applicable tariffs or other service publications.

(2) Ordering

The Customer shall order OC-192 Dedicated SONET Ring Service by issuing an access order, or by such other means for the exchange telephone companies to provision on the ring in each exchange telephone company territory. The Customer will place the order for service as set forth in the ordering conditions for the requested service.

(3) Credit Allowance for Service Interruption

OC-192 Dedicated SONET Ring Service, provided in a meet-point arrangement, is subject to the general terms and conditions in Part 2, Section 2, including, without limitation, the exclusions applicable to Credit Allowances for Service Interruptions, as provided in Part 2, Section 2.5.6(F). As clarification, but not to modify any such terms and conditions, a Credit Allowance for Service Interruptions shall not apply to any service interruption resulting from any failure attributable to the other ILEC jointly providing the service or otherwise not attributable to the Telephone Company.

- (1) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

Pages 21 through 25 are hereby deleted in their entirety and removed from this guidebook. Rates previously listed on these pages can be found in Part 7, Section 31.

31. Metropolitan Statistical Area Access Services31.1 General Description

- (A) This section of the Guidebook provides the conditions, rates and terms and conditions that apply to telecommunications services provided by the Telephone Company in the Metropolitan Statistical Areas (MSAs) in which the Telephone Company has received Phase II pricing flexibility pursuant to Subpart H of Part 69 of the Commission's Rules. MSAs are divided into the categories below:

(1) Full Service MSAs

Full Service Relief MSAs are those MSAs which qualified for Phase II pricing flexibility for all elements of service, i.e., local channels (channel terminations) between LEC end offices and customer (end user) premises; entrance facilities; dedicated interoffice facilities; local channels (channel terminations) between an interexchange carrier's point of presence and a serving wire center. The Full Service Relief MSAs are set forth in Section 31.2(A).

(2) Limited Service MSAs

Limited Service Relief MSAs are those MSAs that qualified for Phase II pricing flexibility for all elements of service except local channels (channel terminations) between a LEC end office and a customer (end user) premise. The Limited Service Relief MSAs are set forth in Section 31.2(B).

- (B) The services provided in MSAs pursuant to this section of the Guidebook are set forth in Section 31.3, following. These services are comparable to Special Access Services in Part 7, Sections 7, 8, 23, 24, 29, 30, and 32 of this Guidebook. The general conditions, service descriptions, and rate conditions for Special Access Services in Part 2, Section 7 and Part 7, Sections 7, 8, 23, 24, 29, 30 and 32 are also applicable to the services specified in this section, except as provided below.

An exception in Section 31.4(F) applies for term pricing plans.

- (C) Unless otherwise provided for in this section, conditions set forth in Part 2, Sections 2, 5, and 13 are also applicable.

31.2 Metropolitan Statistical AreasA. Full Service Relief MSAs are listed below:

California	San Jose ⁽¹⁾
California	Fresno
California	Los Angeles/Long Beach ⁽²⁾
California	San Francisco/Oakland ⁽³⁾

⁽¹⁾ This MSA previously qualified for Limited Service Relief and is now qualified for Full Service Relief per the April 11, 2002 approval of Pacific Bell's most recent Price Flex petition, Memorandum Opinion and Order, CCB/CPD Nos. 01-33 and 02-03, DA 02-823.

⁽²⁾ This MSA previously qualified for Limited Service Relief and is now qualified for Full Service Relief per the May 15, 2003 approval of Pacific Bell's most recent Price Flex petition, Memorandum Opinion and Order, WCB/Pricing No. 03-8, DA 03-1721.

⁽³⁾ This MSA previously qualified for Limited Service Relief and is now qualified for Full Service Relief pursuant to Pacific Bell Telephone Company's Price Flex petition, WCB/Pricing No. 12-04, DA 12-1000, being deemed granted by operation of law effective June 25, 2012.

B. Limited Service Relief MSAs are listed below:

State	MSA
California	Bakersfield
California	Modesto
California	Oxnard/Ventura
California	Sacramento
California	San Diego
California	Santa Rosa
California	Stockton

31.3 Services Available in an MSA

The following services are available in MSAs with Full and Limited Service Relief:

Special Access (Cont'd)
Video Service
OC-3, OC-12 and OC-48 Dedicated SONET Ring Service ⁽²⁾
OC-192 Dedicated SONET Ring Service ⁽²⁾
Optical Carrier Network (OCN) Point-to-Point Service
Gigabit Ethernet Metropolitan Access Network (GigaMAN) ^{(3) (5)}
Multi-service Optical Network (MON) Ring Service ⁽¹⁾
Wavelength Metropolitan Area Network (WaveMAN SM)
10 Gigabit Ethernet Metropolitan Area Network (DecaMAN [®]) ^{(4) (5)}

- (1) Effective December 10, 2012, new Multi-service Optical Network (MON) Ring Service term plans are no longer available. Following the expiration of their existing term plans, MON Ring Service Customers may continue to purchase service on a month-to-month basis. Customers will be permitted to modify their existing service and will be able to add new circuits to their existing service, but will not be permitted to add new nodes in new locations. Any such new circuits will be subject to, and coterminous with, the Customer's existing term payment plan or term agreement for the service to which they are added.
- (2) Effective on or after December 1, 2021 (as permitted by the FCC), neither new nor existing customers will be permitted to purchase new DSRS Service ("Service"). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Month-to-Month rates until the Service is discontinued.
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.
- (3) See Part 7, Section 7, Page 2 for Service availability information.
- (4) See Part 7, Section 23, Page 1 for Service availability information.
- (5) The Company currently plans to discontinue this Service on or after September 30, 2023.

31.4 Rate Conditions

- (A) Figure 1 illustrates services provided within an MSA located in a Full Service Relief Area. The rates and charges for all associated rate elements for services in a Full Service Relief Area are contained in Section 31.5.

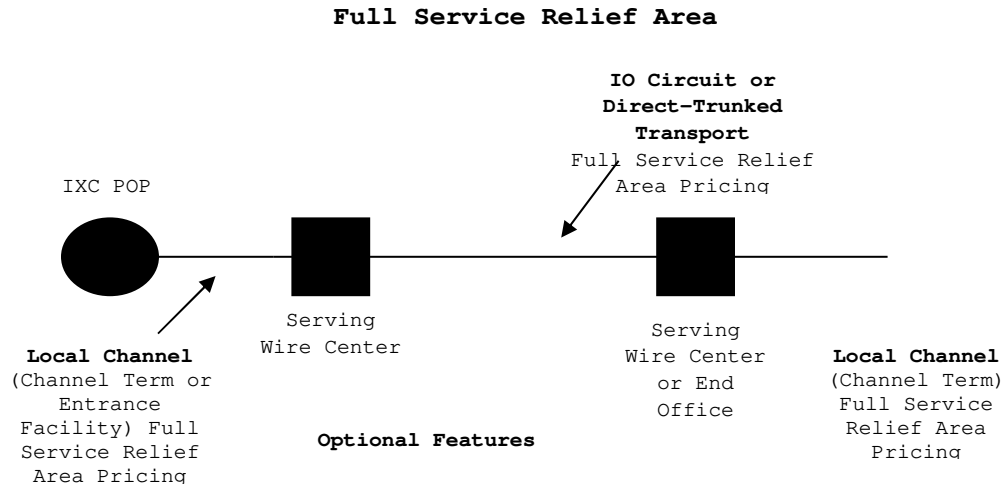


Figure 1

- (B) Figure 2 illustrates services provided within an MSA located in a Limited Service Relief Area. The rates and charges for all associated rate elements for services in a Limited Service Relief Area are contained in Section 31.5, except for the local channels (channel terminations) between a LEC end office and a customer (end user) premise, which are referenced in Part 2, Section 7 and Part 7, Sections 7, 8, 23, 24, 29, 30 and 32 of this Guidebook.

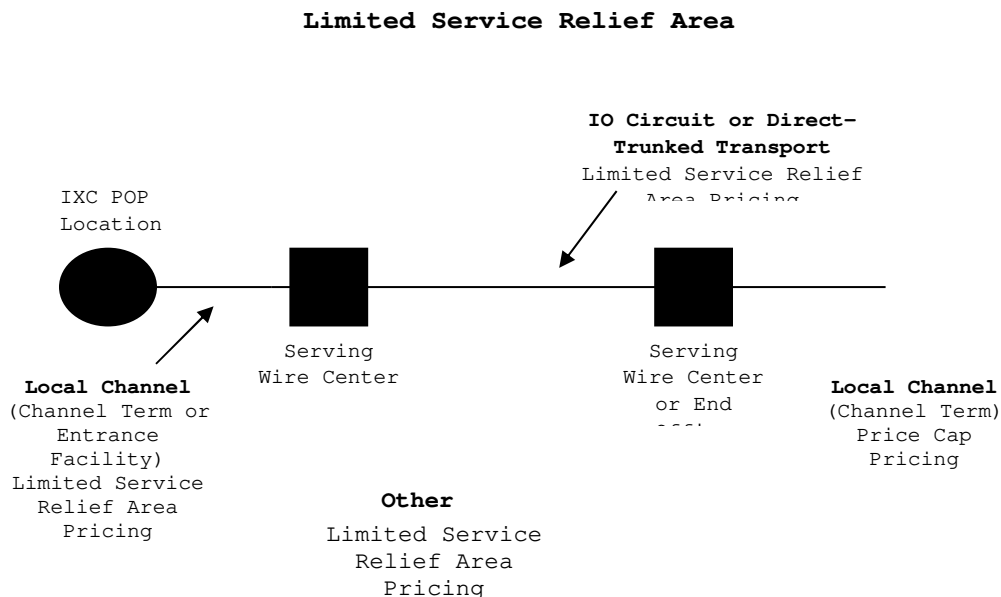
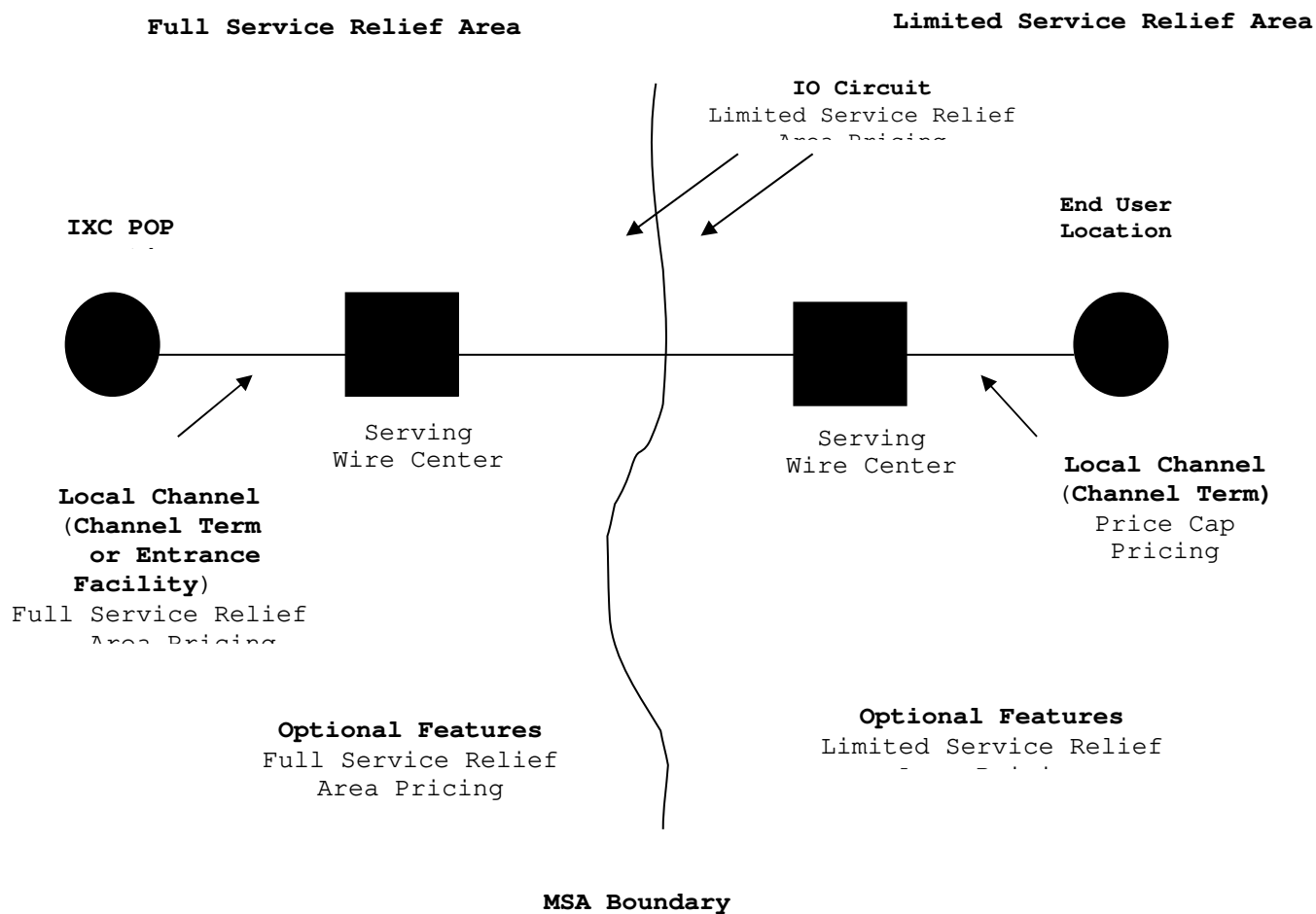


Figure 2

- (C) Figure 3 illustrates a service provided from two MSAs with one MSA located in a Full Service Relief Area and one MSA located in a Limited Service Relief Area. The rates and charges for local channels and optional features located in the Full Service Relief Area are obtained as previously stated in Section 31.4(A). The rates and charges for local channels and optional features located in the Limited Service Relief Area are obtained as stated in Section 31.4(B). Interoffice channels between a Full Service Relief Area and a Limited Service Relief Area are rated the same as that of an interoffice channel in a Limited Service Relief Area and rates and charges are obtained as stated in Section 31.4(B).

**Figure 3**

- (D) Figure 4 illustrates a service provided from two MSAs with one MSA located in a Full Service Relief Area and one MSA located in a Non-Relief Area. The rates and charges for local channels and optional features located in the Full Service Relief Area are obtained as stated in Section 31.4 (A).

Interoffice channels between a Full Service Relief Area and a Non-Relief Area are rated the same as that of an interoffice channel in a Non-Relief Area.

Rates and charges for local channels, interoffice channels and optional features in a Non-Relief Area are obtained in Section 7, Section 29 and Section 30.

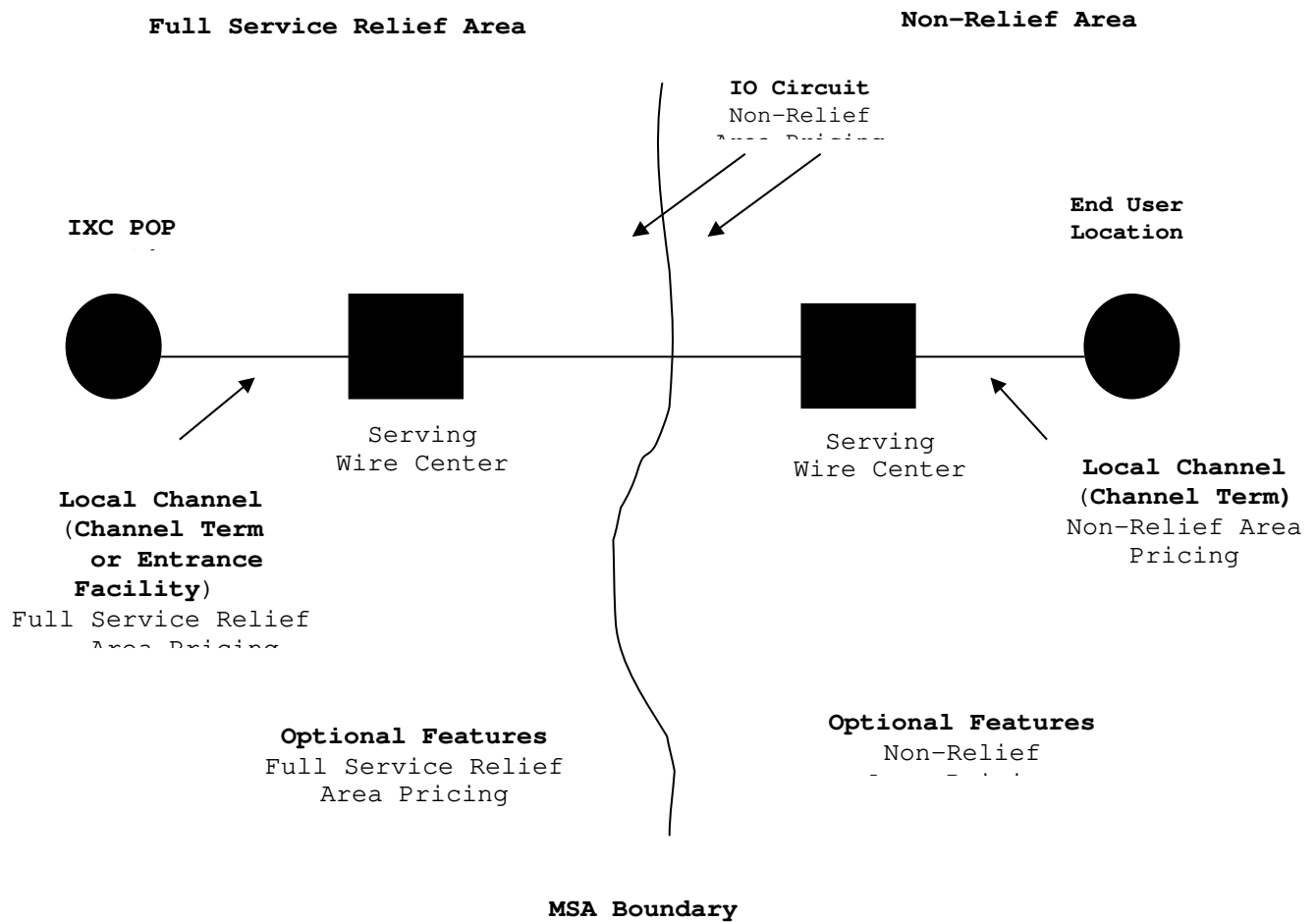


Figure 4

- (E) Figure 5 illustrates service provided from two MSAs with one MSA located in a Limited Service Relief Area and one MSA located in a Non-Relief Area. The rates and charges for local channels and optional features located in the Limited Service Relief Area are obtained as stated in Section 31.4(B).

Interoffice channels between a Limited Service Relief Area and a Non-Relief Area are rated the same as that of an interoffice channel in a Non-Relief Area.

Rates and charges for local channels, interoffice channels and optional features in a Non-Relief Area are obtained in Section 7, Section 29 and Section 30.

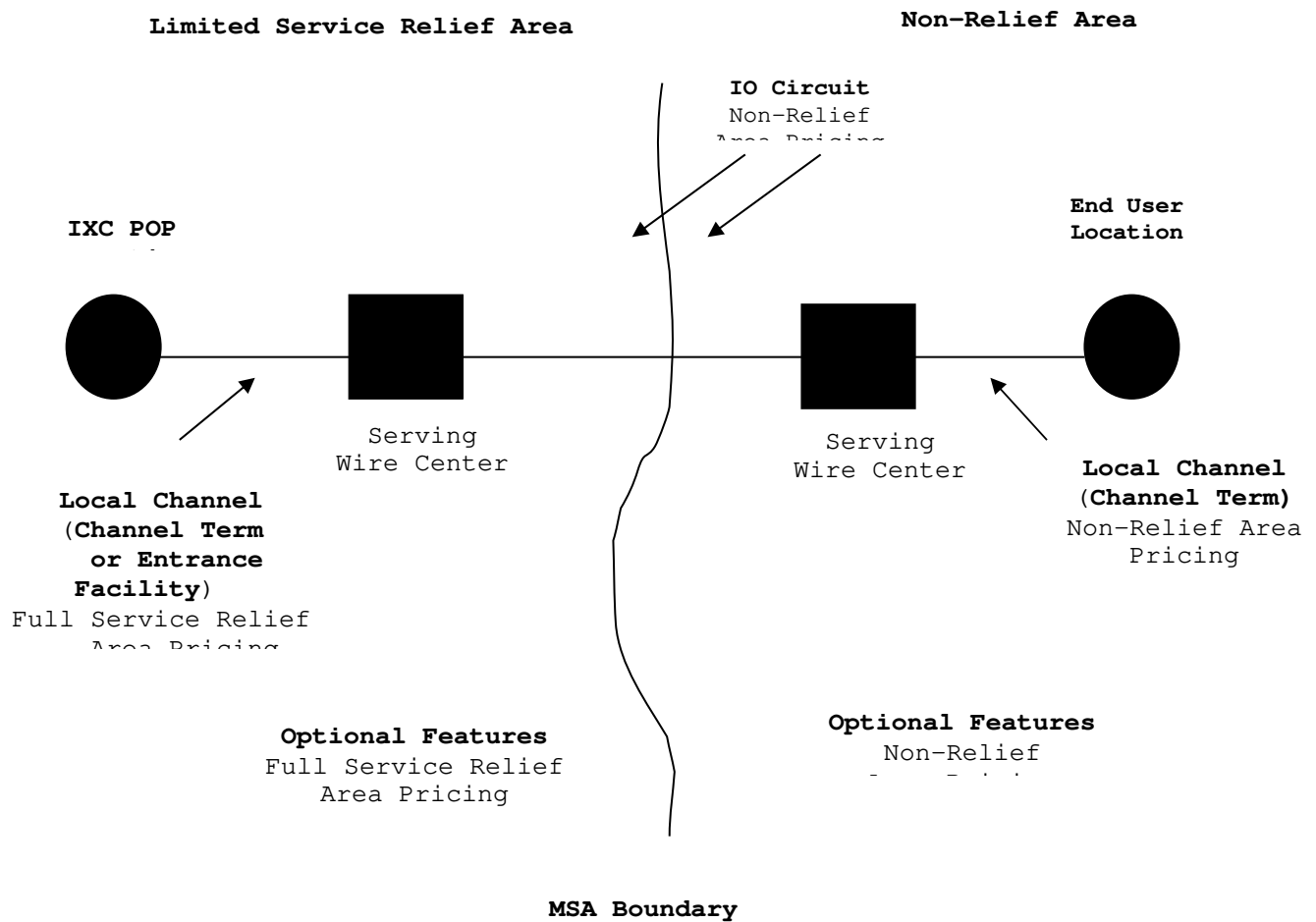


Figure 5

(F) Pricing Plans

For the purpose of Metropolitan Statistical Area Access Services, the following plans apply when referring to Pricing Plans:

- Rate Stability Payment Plan (RSPP)
- Term Pricing Plans (TPP)
- Optional Pricing Plan (OPP)
- Video Pricing Plan (VPP)

For Pricing Plans beginning prior to November 25, 2019:

The Telephone Company ensures that rates provided under a term pricing plan will not be increased, except as provided below, by the Telephone Company above the rates in effect at the beginning of the customer's term pricing plan period.

Customers under their current term pricing plan will continue to pay the rates in effect at the beginning of their plan period until the effective rates in Section 31.5 become lower than the rates received under their term pricing plan, except as provided below.

For Pricing Plans effective on or after November 25, 2019:

New Pricing Plan customers will be required to pay the lower of
(1) the guidebook Pricing Plan rate at the time of billing; or
(2) 120% of the initial rate in the first year of the contract; 144% in the second year of the contract, and 173% in the third year of the contract.

Certain rates in Section 31.5.2.7 reflect interstate rate reductions that are temporary and will remain in effect through June 30, 2010. These rates are being reduced pursuant to Merger Commitment No. 6. ⁽¹⁾ Customers currently subscribing to, or that subscribe to, interstate term pricing plans for DS1/DS3 channel termination services and/or mileage services, in areas where the Telephone Company has obtained Phase II Pricing Flexibility, will pay the rates in Section 31.5.2.7 for those term plans through June 30, 2010, except as provided below. Effective July 1, 2010, such Customers will pay the rates set forth in Section 31.5.2.7.1, for these services. Customers subscribing to or renewing term plans while temporary rate reductions are in effect may experience rate increases as of July 1, 2010 when temporary rate reductions are no longer in effect. For Customers on term pricing plans with vintage rates, if those vintage rates are lower than the temporarily reduced rates, the lower vintage rates will apply. Customers subscribing to a pricing flexibility contract in Section 33 that specifies fixed rates for DS1/DS3 channel termination and/or mileage services are not subject to this provision, and will continue to pay the rates specified in such contract.

* This includes approved services in new full relief areas, new limited relief areas, and channel termination services for those limited relief MSAs which are becoming full relief areas.

⁽¹⁾ See F.C.C. Memorandum Opinion and Order, WC Docket No. 06-74, in The Matter of AT&T, Inc. and BellSouth Corporation Application for Transfer of Control.

(F) Pricing Plans (Cont'd)

Additional pricing flexibility relief was granted on April 11, 2002 for certain MSAs as indicated in Section 31.2. Customers in these additional relief areas* that committed to new term pricing plans as outlined above on or after July 3, 2001 but before June 18, 2002 will pay the rates outlined in the following Table A. Customers in these relief areas signing new term pricing plans on or after June 18, 2002 will pay the rates outlined in Section 31.5.

Additional pricing flexibility relief was granted on May 15, 2003 for certain MSAs as indicated in Section 31.2. Customers in these additional relief areas* that committed to new term pricing plans as outlined above on or after July 4, 2001 will pay the rates outlined in Section 31.5.4. Customers in these relief areas signing new term pricing plans on or after June 13, 2003 will pay the rates outlined in Section 31.5.

The effective date provides the effective date upon which these rates are applicable. Customers in relief areas not falling into these specific situations would pay the rates outlined in Section 31.5.

TABLE A

SP**	ZN	Description	Rate	Rates Effective
SP		OC192-DSRS-ADD/DROP CAP per arrangement-3 Yr	\$5,000.00	February 13, 2002
SP		OC192-DSRS-ADD/DROP CAP per arrangement-5 Yr	\$4,000.00	February 13, 2002
SP		SONET R&ACC CO NODE - DED RING 155 MBPS(OC3)5 Yr	\$1,300.00	May 18, 2002
SP		SONET R&ACC CO NODE - DED RING 622 MBPS(OC12)5 Yr	\$1,550.00	May 18, 2002
SP		SONET R&ACC CO NODE - DED RING 2.4 GBPS(OC48)5 Yr	\$3,600.00	May 18, 2002
SP		SONET R&ACC PREM NODE FOR DED RING 155 MBPS(OC3)5 Yr	\$1,400.00	May 18, 2002
SP		SONET R&ACC PREM NODE FOR DED RING 622 MBPS(OC12)5 Yr	\$1,800.00	May 18, 2002
SP		SONET R&ACC PREM NODE FOR DED RING 2.4 GBPS(OC48)5 Yr	\$4,450.00	May 18, 2002
SP		SONET R&ACC PREM ACC PORT 45 MBPS(DS3)5 Yr	\$145.00	May 18, 2002

** SP=Special Access Service.

31.5 Rates and Charges

31.5.1 Not in Use

31.5.2 Special Access Service

31.5.2.1 Not in Use

31.5.2.2 Not in Use

31.5.2.3 Not in Use

31.5.2.4 Not in Use

31.5.2.6 Not in Use

31.5.2.7 Not in Use

31.5.2.7.1 Not in Use

31.5.2.8 Not in Use

31.5.2.9 Not in Use

31.5.2.10 Not in Use

31.5.2.11 Not in Use

31.5.2.5 Video Service

(A) Serial Component Video Service (SCVS)

		USOC	Monthly Rates	Daily Rates
(1) Channel Termination				
- Per point of termination		AVSVM/AVSVD	\$ 900.00	\$315.00
Nonrecurring Charges - SCVS				
		USOC	1st Ckt.	Addl. Ckt.
Monthly		AVSVM	\$1,000.00	\$500.00
Daily		AVSVD	1,866.00	755.00
(2) Channel Mileage				
		USOC	Monthly Rates	Daily Rates
			Fixed	Per Mile
0 - <21	1L5XW/1L5		\$ 50.00	\$20.00
21 - <41	1L5XW/1L5		250.00	20.00
41 - <61	1L5XW/1L5		450.00	20.00
61 - <80	1L5XW/1L5		650.00	20.00
			USOC	Nonrecurring Charge
(3) Service to Service Through Connect				
			BCSTC	\$160.00
(4) Optional Features and Functions				
		USOC	Monthly Rate	Daily Rate
(a) Virtual Studio	27VSM/27VSD		100.00	76.00
				Nonrecurring Charge ⁽¹⁾
(b) Hubbing Arrangements				
		USOC	Nonrecurring Charge	
-Full-time to Full-time	B5N6F/BCSWV		\$18.95	
-Full-time to Part-time	B5N6F/BCSWV		18.95	
-Part-time to Part-time	B5N6F/BCSWV		18.95	
(c) Optical, Wavelength and Ethernet Handoff Options and Interfaces				
		USOC	Daily Rate	Monthly Rates
				Nonrecurring Charge ⁽¹⁾
-OC-3 Handoff	VOF3X/ VOF32		N/A	\$750.00
-OC-12 Handoff	VOF1X/ VOF12		N/A	\$1,675.00
-OC-48 Handoff Option	VOF4X		N/A	\$1,675.00
-2.5Gbps Ethernet /Wavelength Handoff	VOFAX		N/A	\$1,675.00
-10Gbps Ethernet Handoff	VOFBX		N/A	\$1,675.00
		V1F3X/ V1F32	\$250.00	\$400.00
-SMPTE 310M Digital Interface				\$500.00
		NTSCM/ NTSCD	\$150.00	\$200.00
-NTSC Analog Interface				\$500.00

⁽¹⁾ Nonrecurring charge is waived when feature is ordered and installed concurrently with associated Channel Termination.

31.5.2.5 Video Service (Cont'd)(A) Serial Component Video Service (SCVS) (Cont'd)

(d) Diversity Options

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
-Local Channel Diversity (Per Channel Termination)	CPAMX	\$410.00	N/A
-Alternate Wire Center Diversity (Per Channel Termination)	CPABX	\$660.00	N/A
-Inter-Wire Center Diversity (Per Circuit)	CPAUX	\$290.00	N/A
-Equipment Only Diversity (Per Channel Termination)	CPACX	\$415.00	N/A

31.5.2.5 Video Service (Cont'd)(B) High Definition Video Transport (HDVT)

	USOC	Monthly	Nonrecurring Charge ⁽¹⁾
(1) Channel Termination - per end	TZ4DX/ TZ4AX	\$750.00	\$1500.00
(2) Interoffice Fixed Mileage	1A4FX/ 1HHRS	\$50.00	N/A
(3) Variable Mileage -per mile	1A4FX/ 1HHRS	\$110.00	N/A
(4) Optional Features & Functions - Per Each			
(a) Regenerator	V8R/ V8R2X	\$440.00	N/A
(b) Optical, Wavelength and Ethernet Handoff Options			
-OC-3 Handoff	VOF3X/ VOF32	\$750.00	\$700.00 ^(1,2)
-OC-12 Handoff	VOF1X/ VOF12	\$1,675.00	\$700.00 ^(1,2)
-OC-48 Handoff	VOF4X	\$1,675.00	\$700.00 ^(1,2)
-2.5Gbps Ethernet/ Wavelength Handoff	VOFAX	\$1,675.00	\$700.00 ^(1,2)
-10Gbps Ethernet Handoff	VOFBX	\$1,675.00	\$700.00 ^(1,2)
(c) Multi Media Channel ^(1,3)			
- 1 Gbps Option	HDVM1	\$2,500.00	\$1,500.00
(d) Diversity Options			
-Local Channel Diversity (Per Channel Termination)	CPAMX	\$410.00	N/A
-Alternate Wire Center Diversity (Per Channel Termination)	CPABX	\$660.00	N/A
-Inter-Wire Center Diversity (Per Circuit)	CPAUX	\$290.00	N/A
-Equipment Only Diversity (Per Channel Termination)	CPACX	\$415.00	N/A

⁽¹⁾ A nonrecurring charge will not apply when the customer subscribes to a 2-Year or longer Video Pricing Plan.⁽²⁾ Nonrecurring charge is waived when feature is ordered and installed concurrently with associated Channel Termination.⁽²⁾ Nonrecurring charge is waived when feature is ordered and installed concurrently with associated HDVT Channel Termination.

(5) Video Pricing Plan (VPP)

(A) Serial Component Video Service (SCVS)

(1) Channel Termination, Per point of termination

		Monthly	Nonrecurring Charges	
	USOC	Rate	1st Ckt.	Add'l Ckt.
1 Year	AVSVM/AVSV1	\$855.00	\$500.00	\$250.00
3 Year	AVSVM/AVSV3	810.00	0.00	0.00
5 Year	AVSVM/AVSV5	765.00	0.00	0.00

(2) Channel Mileage

		1 Year		3 Year		5 Year	
		Monthly Rates		Monthly Rates		Monthly Rates	
	USOC	Fixed	Per Mile	Fixed	Per Mile	Fixed	Per Mile
0 - <21	1L5XW/1L5	\$48.00	\$19.00	\$45.00	\$18.00	\$43.00	\$17.00
21 - <41	1L5XW/1L5	238.00	19.00	225.00	18.00	213.00	17.00
41 - <61	1L5XW/1L5	428.00	19.00	405.00	18.00	383.00	17.00
61 - <80	1L5XW/1L5	618.00	19.00	585.00	18.00	553.00	17.00

		1 Year	3 Year	5 Year
	USOC	Monthly Rate	Monthly Rate	Monthly Rate
(a) Virtual Studio	27VSM/27VS+	\$95.00	\$90.00	\$85.00
(b) Video Access Gateway - Dedicated	BCSWG	N/A	1,200.00	1,200.00

	USOC	Nonrecurring Charge ⁽¹⁾
Virtual Studio	27VSM	\$500.00
Video Gateway-Dedicated	BCSWG	0.00

(c) Optical, Wavelength and Ethernet Handoff Options and Interfaces

	USOC	Monthly	1 Year	3 Year	5 Year	Nonrecurring Charge ⁽¹⁾
-OC-3 Handoff	VOF3X/ VOF32	\$750.00	\$650.00	\$300.00	\$275.00	\$700.00
-OC-12 Handoff	VOF1X/ VOF12	1,675.00	1,450.00	675.00	625.00	700.00
-OC-48 Handoff	VOF4X	1,675.00	1,450.00	675.00	625.00	700.00
-2.5Gbps Ethernet/ Wavelength Handoff	VOFAX	1,675.00	1,450.00	675.00	625.00	700.00
-10Gbps Ethernet Handoff	VOFBX	1,675.00	1,450.00	675.00	625.00	700.00
-SMPTE 310M Digital Interface	V1F3X/ V1F32	400.00	350.00	315.00	300.00	500.00
-NTSC Analog Interface	NTSCM/ NTSC+	200.00	190.00	180.00	170.00	500.00

⁽¹⁾ Nonrecurring charge is waived when feature is ordered and installed concurrently with associated Channel Termination.

(5) Video Pricing Plan (VPP) (Cont'd)

(A) Serial Component Video Service (SCVS) (Cont'd)

	<u>USOC</u>	<u>Monthly</u>	<u>1 Year</u>	<u>3 Year</u>	<u>5 Year</u>	<u>Nonrecurring Charge</u> ⁽¹⁾
(d) Diversity Options						
-Local Channel Diversity (Per Channel Termination)	CPAMX	\$410.00	\$350.00	\$260.00	\$225.00	N/A
-Alternate Wire Center Diversity (Per Channel Termination)	CPABX	660.00	570.00	420.00	360.00	N/A
-Inter-Wire Center Diversity (Per Circuit)	CPAUX	290.00	250.00	180.00	150.00	N/A
-Equipment Only Diversity (Per Channel Termination)	CPACX	415.00	370.00	270.00	245.00	N/A

⁽¹⁾ Nonrecurring charge is waived when feature is ordered and installed concurrently with associated Channel Termination.

(5) Video Pricing Plan (VPP) (Cont'd)

(B) High Definition Video Transport (HDVT)

	USOC	Monthly	1 Year	2 Year	3 Year	5 Year	Nonrecurring Charge ⁽¹⁾
(1) Channel Termination -per end	TZ4DX/ TZ4AX	\$750.00	\$700.00	\$625.00	\$585.00	\$525.00	\$1,500.00
(2) Interoffice Fixed Mileage	1A4FX/ 1HHRS	\$50.00	\$48.00	\$48.00	\$45.00	\$43.00	N/A
(3) Variable Mileage -per mile	1A4FX/ 1HHRS	\$110.00	\$100.00	\$95.00	\$90.00	\$80.00	N/A
(4) Optional Features & Functions -per Each	V8R/						
(a) Regenerator	V8R2X	\$440.00	\$440.00	\$430.00	\$430.00	\$420.00	N/A
(b) Optical, Wavelength and Ethernet Handoff Options							
-OC-3 Handoff	VOF3X/ VOF32	\$750.00	\$650.00	\$560.00	\$300.00	\$275.00	\$700.00 ⁽²⁾
-OC-12 Handoff	VOF1X/ VOF12	\$1,675.00	\$1,450.00	\$1,250.00	\$675.00	\$625.00	\$700.00 ⁽²⁾
-OC-48 Handoff	VOF4X	\$1,675.00	\$1,450.00	\$1,250.00	\$675.00	\$625.00	\$700.00 ⁽²⁾
-2.5Gbps Ethernet/ Wavelength Handoff	VOFAX	\$1,675.00	\$1,450.00	\$1,250.00	\$675.00	\$625.00	\$700.00 ⁽²⁾
-10Gbps Ethernet Handoff	VOFBX	\$1,675.00	\$1,450.00	\$1,250.00	\$675.00	\$625.00	\$700.00 ⁽²⁾
(c) Multi Media Channel ^(1,3)							
-1 Gbps option	HDVM1	\$2,500.00	\$2,000.00	\$2,000.00	\$1,000.00	\$950.00	\$1,500.00
(d) Diversity Options							
-Local Channel Diversity (Per Channel Termination)	CPAMX	\$410.00	\$350.00	\$300.00	\$260.00	\$225.00	N/A
-Alternate Wire Center Diversity (Per Channel Termination)	CPABX	\$660.00	\$570.00	\$490.00	\$420.00	\$360.00	N/A
-Inter-Wire Center Diversity (Per Circuit)	CPAUX	\$290.00	\$250.00	\$210.00	\$180.00	\$150.00	N/A
-Equipment Only Diversity (Per Channel Termination)	CPACX	\$415.00	\$370.00	\$320.00	\$270.00	\$245.00	N/A

⁽¹⁾ A nonrecurring charge will not apply when the customer subscribes to a 2-Year or longer Video Pricing Plan.⁽²⁾ Nonrecurring charge is waived when feature is ordered and installed concurrently with associated Channel Termination.⁽³⁾ Nonrecurring charge is waived when feature is ordered and installed concurrently with associated HDVT Channel Termination.

31.5.2.12 Dedicated SONET Ring Service⁽³⁾

(A) Node					
Description	USOC	12 Months ⁽³⁾	36 Months ^{(2) (3)}	60 Months ^{(2) (3)}	Monthly Extension
Per Node:					
OC-3					
-Customer Premises					
First	FP5CX	\$12,074.07	\$ 12,074.07	\$1,750.00	\$15,746.40
First Re-Map ⁽¹⁾	RN8CX	2,650.00	2,650.00	1,750.00	3,200.00
Additional	FP5CA	12,074.07	12,074.07	1,750.00	15,746.40
Additional Re-Map ⁽¹⁾	RN8CA	2,650.00	2,650.00	1,750.00	3,200.00
-Central Office	FC5CX	9,340.32	9,340.32	1,600.00	12,793.95
OC-12					
-Customer Premises					
First	FP5DX	13,440.95	13,440.95	2,200.00	18,698.85
First Re-Map ⁽¹⁾	RN8DX	2,950.00	2,950.00	2,200.00	3,800.00
Additional	FP5DA	13,440.95	13,440.95	2,200.00	18,698.85
Additional Re-Map ⁽¹⁾	RN8DA	2,950.00	2,950.00	2,200.00	3,800.00
-Central Office	FC5DX	10,023.75	10,023.75	1,850.00	14,270.18
OC-48					
-Customer Premises					
First	FP5EX	27,337.50	27,337.50	4,900.00	34,937.33
First Re-Map ⁽¹⁾	RN8EX	6,000.00	6,000.00	4,900.00	7,100.00
Additional	FP5EA	27,337.50	27,337.50	4,900.00	34,937.33
Additional Re-Map ⁽¹⁾	RN8EA	6,000.00	6,000.00	4,900.00	7,100.00
-Central Office	FC5EX	23,920.32	23,920.32	4,000.00	29,524.50
Description	USOC	12 Months ⁽³⁾	36 Months ^{(2) (3)}	60 Months ^{(2) (3)}	Monthly Extension
Per node:					
Flex-Ring					
Customer Premises node for					
2nd ring double on existing					
OC-12	GP5FX	10,023.75	10,023.75	1,800.00	14,270.18
OC-48	GP5GX	17,769.38	17,769.38	3,000.00	22,143.38
Central Office node for					
2nd ring double on existing					
OC-12	GC5FX	8,429.07	8,429.07	1,500.00	10,825.65
OC-48	GC5GX	15,946.88	15,946.88	2,800.00	20,175.08

(1) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.

(2) All term plans for Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.

(3) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

Description	USOC	Nonrecurring Charge
Nonrecurring charges for subsequent installation		
-Per Node		
Customer Premises	NRBS7	\$400.00
Customer Premises Re-Map ⁽³⁾	NRBS7	400.00
Central Office	NRBSV	325.00

(B) OC-48 Add/Drop Capability

Description	USOC	12 Months ⁽⁵⁾	36 Months ^{(4) (5)}	60 Months ^{(4) (5)}	Monthly Extension
Per Arrangement	MPEFX	\$1,650.00	\$1,650.00	\$1,400.00	\$2,100.00
Re-Map ⁽³⁾ per arrangement	M8RFX	1,650.00	1,650.00	1,400.00	2,100.00
Description		USOC		Nonrecurring Charge	
Nonrecurring charges for subsequent installation per arrangement		NRBS8		490.00	

(C) Ports

Description	USOC	12 Months ⁽⁵⁾	36 Months ^{(4) (5)}	60 Months ^{(4) (5)}	Monthly Extension
- Per Port (excluding Re-Map)					
DS1 at OC-3 Node	SPRAX	\$ 136.70	\$ 136.70	\$ 25.00	\$ 319.86
DS3 at OC-3 Node	SPRBX	546.75	546.75	110.00	738.12
EC-1 at OC-3 Node	S9NSX	120.00	120.00	110.00	150.00
OC-3 at OC-3 Node	S9T1X	1,594.70	1,594.70	300.00	2,706.42
DS3 at OC-12 Node	SPRCX	546.75	546.75	110.00	738.12
EC-1 at OC-12 Node	S9NUX	120.00	120.00	110.00	150.00
OC-3 or OC-3c at OC-12 Node	SPREX	683.45	683.45	135.00	934.95
DS1 at OC-12 Node ^{(1) (2)}	SPRGX	136.70	136.70	25.00	319.86
OC-12 at OC-12 Node	S9T2X	3,872.82	3,872.82	725.00	5,166.80

(1) Optical to Electrical DS1 add/drop capability as described in 31.3(A) (5) is needed along with an OC-3 port.

(2) The Optical-to-Electrical DS1 add/drop capability will be charged when the 85th DS1 port is applied per OC-12 node.

(3) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.

(4) All term plans for Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.

(5) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

Description	USOC	12 Months ⁽³⁾	36 Months ^{(2) (3)}	60 Months ^{(2) (3)}	Monthly Extension
-Per Port (excluding Re-Map)					
OC-12 or OC-12c at OC-48 Node	SPRHX	1,708.61	1,708.61	360.00	2,337.38
OC-3 or OC-3c at OC-48 Node	SPRJX	683.45	683.45	135.00	934.95
DS3 at OC-48 Node	SPRKX	546.75	546.75	110.00	738.12
EC-1 at OC-48 Node	S9NVX	120.00	120.00	110.00	150.00
DS1 at OC-48 Node ⁽¹⁾	SPRLX	227.82	227.82	45.00	319.86
OC-48 at OC-48 Node	S9T3X	8,656.88	8,656.88	1,650.00	14,024.15
DS3 w/Transmux	S4NGX	250.00	250.00	200.00	300.00
100 Mbps Ethernet (STS- 1) at OC-3 Node	S9TAX	145.00	145.00	130.00	225.00
100 Mbps Ethernet (STS- 1) at OC-12 Node	S9TBX	145.00	145.00	130.00	225.00
100 Mbps Ethernet (STS- 3c) at OC-12 Node	S9TCX	180.00	180.00	160.00	280.00
1 Gbps Ethernet (STS-1) at OC-12 Node	S9TDX	250.00	250.00	200.00	350.00
1 Gbps Ethernet (STS-3c) at OC-12 Node	S9TEX	250.00	250.00	200.00	350.00
100 Mbps Ethernet (STS- 1) at OC-48 Node	S9TGX	145.00	145.00	130.00	225.00
100 Mbps Ethernet (STS- 3c) at OC-48 Node	S9THX	180.00	180.00	160.00	280.00
1 Gbps Ethernet (STS-1) at OC-48 Node	S9TJX	250.00	250.00	200.00	350.00
1 Gbps Ethernet (STS-3c) at OC-48 Node	S9TKX	250.00	250.00	200.00	350.00
1 Gbps Ethernet (STS- 12c) at OC-48 Node	S9TLX	600.00	600.00	500.00	875.00
1 Gbps Ethernet (STS- 24c) at OC-48 Node	S9TMX	900.00	900.00	850.00	1500.00

(1) Optical to Electrical DS1 add/drop capability as described in 31.3(A) (5) is needed along with an OC-3 port.

(2) All term plans for Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.

(3) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

Description	USOC	12 Months ⁽⁷⁾	36 Months ^{(6) (7)}	60 Months ^{(6) (7)}	Monthly Extension
EoS Ports					
Virtual Concatenation (VCAT) ⁽¹⁾					
- per multiplexing function					
10/100 BaseT Ethernet Port	S5P1X	250.00	250.00	180.00	350.00
Bandwidth options for port ^{(2) (4) (5)}					
VT1.5-1v (1.6 Mbps)					
VT1.5-2v (3.2 Mbps)					
VT1.5-3v (4.8 Mbps)					
VT1.5-4v (6.4 Mbps)					
VT1.5-5v (8.0 Mbps)					
VT1.5-6v (9.6 Mbps)					
VT1.5-7v (11.2 Mbps)					
VT1.5-8v (12.4 Mbps)					
VT1.5-10v (16.0 Mbps)					
VT1.5-13v (20.8 Mbps)					
STS-1-1v (48.38 Mbps)					
STS-1-2v (96.77 Mbps)					
1000 BaseSX Ethernet Port	S5P2X	425.00	425.00	350.00	500.00
1000 BaseLX Ethernet Port	S5P3X	425.00	425.00	350.00	500.00
Bandwidth options for port ^{(3) (4) (5)}					
STS-1-1v (48.38 Mbps)					
STS-1-2v (96.77 Mbps)					
STS-1-3v (145.15 Mbps)					
STS-1-4v (193.54 Mbps)					
STS-1-5v (241.92 Mbps)					
STS-1-6v (290.30 Mbps)					
STS-1-9v (435.46 Mbps)					
STS-1-12v (580.61 Mbps)					
STS-1-21v (1016.06 Mbps)					
STS-3c-1v (149.76 Mbps)					
STS-3c-2v (299.52 Mbps)					
STS-3c-3v (449.28 Mbps)					
STS-3c-4v (599.04 Mbps)					
STS-3c-7v (1048.32 Mbps)					

(1) Nonrecurring charges apply to EoS Ports, Virtual Concatenation (VCAT). See Eos Port charges in Section 31.5.2.12(C), for applicable nonrecurring charges.

(2) Actual payload capacity for selected bandwidth.

(3) Actual payload capacity for selected bandwidth applies to both SX and LX.

(4) Only Single-Mode Fiber is available in the Central Office.

(5) The EoS line rates defined herein are based on the theoretical SONET payload line rates as per GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.

(6) All term plans for Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.

(7) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

Description	USOC	12 Months ⁽⁴⁾	36 Months ^{(3) (4)}	60 Months ^{(3) (4)}	Monthly Extension
- Per port (Re-Map) ⁽²⁾					
Per DS1 Re-Map Block (consists of 28 DS1 ports) at					
OC-3 Ring	P8RAX	1,400.00	1,400.00	1,260.00	1,820.00
OC-12 Ring	P8RGX	1,400.00	1,400.00	1,260.00	1,820.00
OC-48 Ring	P8RLX	1,400.00	1,400.00	1,260.00	1,820.00
Per DS3 Re-Map Port					
OC-3 Ring	P8RBX	120.00	120.00	110.00	150.00
Per DS3 Re-Map Block (consists of 3 DS3 ports) at					
OC-12 Ring	P8RCX	360.00	360.00	330.00	450.00
OC-48 Ring	P8RKX	360.00	360.00	330.00	450.00
Per DS3 Transmux Re-Map ⁽¹⁾	RN7TX	250.00	250.00	200.00	300.00
Per EC-1 Re-Map Port	S9N6X	120.00	120.00	110.00	150.00
OC-3 Ring	S9N8X	120.00	120.00	110.00	150.00
OC-12 Ring	S9N9X	120.00	120.00	110.00	150.00
OC-48 Ring					
Per OC-3,OC-3c Re-Map Port at					
OC-12 Ring	P8REX	150.00	150.00	130.00	190.00
OC-48 Ring	P8RJX	150.00	150.00	130.00	190.00
Per OC-12,OC-12c Re-Map Port at OC-48 Ring	P8RHX	375.00	375.00	350.00	475.00

Description	USOC	Nonrecurring Charge
Nonrecurring charges for subsequent installation		
- Per port type		
OC-48 or OC-48c	NRBN9	\$425.00
OC-12 or OC-12c	NRBSZ	400.00
OC-3 or OC-3c	NRBSW	400.00
EC-1	NRBSX	385.00
DS3	NRBSX	385.00
DS3 w/Transmux	NRBSX	385.00
DS1	NRBSY	350.00
100 Mbps Ethernet STS-1	NRM63	385.00
100 Mbps Ethernet STS-3c	NRM64	385.00
1 Gbps Ethernet STS-1	NRM65	425.00
1 Gbps Ethernet STS-3c	NRM66	425.00
1 Gbps Ethernet STS-12c	NRM67	425.00
1 Gbps Ethernet STS-24c	NRM68	425.00
10/100 BaseT Ethernet Port	NRM63	385.00
1000 BaseLX Ethernet Port	NRM65	425.00
1000 BaseSX Ethernet Port	NRM66	425.00

(1) Available for rings established on or after 09/08/07.

(2) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.

(3) All term plans for Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.

(4) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(D) Mileage

Description	USOC	12 Months ⁽³⁾	36 Months ^{(2) (3)}	60 Months ^{(2) (3)}	Monthly Extension
Per mile between nodes by ring type					
OC-3	1YAZX	0-10 miles	None	None	None
		over 10 miles	\$1,139.07	\$1,139.07	\$220.00
OC-12	1YAZX	0-10 miles	None	None	None
		over 10 miles	\$1,184.63	\$1,184.63	\$220.00
OC-48	1YAZX	0-10 miles	None	None	None
		over 10 miles	\$1,184.63	\$1,184.63	\$220.00

(E) Optical to Electrical DS1 Add/Drop Capability

Description	USOC	12 Months ⁽³⁾	36 Months ^{(2) (3)}	60 Months ^{(2) (3)}	Monthly Extension
Per OC-3 to DS1 Add/Drop Re-Map ⁽¹⁾	MXJDX	650.00	650.00	550.00	900.00
Per OC-3 to DS-1 Add/Drop	M8RDX	650.00	650.00	550.00	900.00

Description	USOC	Nonrecurring Charge
Nonrecurring charges for subsequent installation		
-Per DS1 off OC-12, OC-48	NRBS6	\$490.00

(F) Dedicated SONET Ring Regenerator

Description	USOC	12 Months ⁽³⁾	36 Months ^{(2) (3)}	60 Months ^{(2) (3)}	Monthly Extension
OC-3 Each (as required)	RGY	\$4,556.25	\$4,556.25	\$ 800.00	\$5,904.90
OC-12 Each (as required)	RGY	11,937.38	11,937.38	2,095.00	15,451.16
OC-48 Each (as required)	RGY	14,921.73	14,921.73	2,620.00	19,338.56

Description	USOC	Nonrecurring Charge
Nonrecurring charges for subsequent installation of Regenerator		
-Each (as required)	NRBS5	\$270.00

- (1) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.
- (2) All term plans for Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.
- (3) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(G) Shared Network Arrangement

Description	USOC	Nonrecurring Charge
Processing Charge Per Service Order	NRMCL	\$30.00

(H) Installation and Rearrangement Charges

Description	Administrative Charge per Order	Design and Central Office Connection Charge, per Initial Ring ⁽²⁾
	USOC	ORCMX
OC-3	\$60.00	\$600.00
OC-12	60.00	600.00
OC-48	60.00	600.00
STS-1	60.00	

(I) Re-Map Service ⁽¹⁾

Description	USOC	Nonrecurring Charge
Re-Map Service		
Initial Service Script Establishment/ Test Charge		
Per OC-3 Ring ⁽²⁾	NRMR1	\$2,000.00
Per OC-12 Ring ⁽²⁾	NRMR1	3,500.00
Per OC-48 Ring ⁽²⁾	NRMR1	4,500.00
Subsequent Script Activity Charge		
Per OC-3 Ring ⁽²⁾	NRMR3	1,200.00
Per OC-12 Ring ⁽²⁾	NRMR3	2,100.00
Per OC-48 Ring ⁽²⁾	NRMR3	2,700.00
Scheduled Test Charge		
Per OC-3 Ring ⁽²⁾	NRMR5	1,600.00
Per OC-12 Ring ⁽²⁾	NRMR5	2,800.00
Per OC-48 Ring ⁽²⁾	NRMR5	3,600.00
Emergency Re-Map Activation (per request)		
Per OC-3 Ring ⁽²⁾	NRMR7	1,800.00
Per OC-12 Ring ⁽²⁾	NRMR7	3,150.00
Per OC-48 Ring ⁽²⁾	NRMR7	4,050.00

- (1) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.
- (2) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

31.5.2.12.1 OC-192 Dedicated SONET Ring Service⁽⁵⁾

(A) Nodes

Description	USOC	1 Year ⁽⁵⁾	3 Year ^{(4) (5)}	5 Year ^{(4) (5)}	Monthly Extension
-Customer Premises					
First	GP5AX/GP5++	\$100,237.50	\$100,237.50	\$17,650.00	\$162,384.75
First Re-Map ⁽³⁾	RNFAX	19,800.00	19,800.00	16,000.00	33,000.00
Additional	GP5AA/GP5++	89,530.32	89,530.32	15,700.00	145,039.13
Additional Re-Map ⁽³⁾	RNFAX	17,800.00	17,800.00	14,200.00	29,475.00
-Central Office	GC5AX/GC5++	89,530.32	89,530.32	15,700.00	145,039.13

Description	USOC	Nonrecurring Charge
Nonrecurring charges for subsequent installation		
- Per Node		
Customer Premises	NRBS7	\$400.00
Customer Premises Re-Map ⁽³⁾	NRBS7	400.00
Central Office	NRBSV	325.00

(B) Add/Drop Capability

Description	USOC	1 Year ⁽⁵⁾	3 Year ^{(4) (5)}	5 Year ^{(4) (5)}	Monthly Extension
Per Arrangement - (per node) ⁽¹⁾	MXRGX/MXR++	\$5,000.00	\$5,000.00	\$4,000.00	\$7,000.00
not to exceed ny configurable combination of ports beyond 192 STS-1 equivalents					
- Re-Map ^{(2) (3)}	M8RGX	\$4,500.00	\$4,500.00	\$3,600.00	\$7,000.00

(1) The OC-192 Add/Drop charge is applied to all nodes, excluding regenerators and CO nodes without drop ports.

(2) Available for rings established on or after 09/08/07.

(3) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.

(4) All term plans for OC-192 Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.

(5) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

Description	USOC	12 Months ⁽⁶⁾	36 Months ^{(5) (6)}	60 Months ^{(5) (6)}	Monthly Extension (C)
(2) Optical to Electrical Per Arrangement ⁽¹⁾					
- (per node) not to exceed any configurable combination of ports beyond 192 STS-1 equivalents	MXJGX/MXJ++	\$2,500.00	\$2,500.00	\$2,000.00	\$3,500.00
- Re-Map ^{(2) (4)} Per Optical to Electrical DS-3 Add/Drop Capability	M6JGX	\$2,500.00	\$2,500.00	\$2,000.00	3,500.00
Per OC-3 to DS-1 Add/Drop ⁽³⁾	MXJDX	875.00	875.00	700.00	1,050.00
Re-Map ⁽⁴⁾ Per OC-3 to DS-1 Add/Drop ⁽³⁾	M8RDX	875.00	875.00	700.00	1,050.00

Description	USOC	Nonrecurring Charge
Subsequent Installation Per OC-3 to DS-1 Add/Drop	NRBS6	\$490.00
Subsequent Installation Optical/Electrical of DS3 Add/Drop	NRBS8	\$490.00

- (1) When electrical drops are required, the Optical-to-Electrical Add/Drop Capability charge is applied in addition to the Add/Drop Capability charge set forth in Section 31.5.2.12(B).
- (2) Available for rings established on or after 09/08/07.
- (3) An OC-3 port charge is needed with each Optical-to-Electrical Add/drop Capability - Per OC-3 to DS-1 Add/Drop.
- (4) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.
- (5) All term plans for OC-192 Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.
- (6) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

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Description	USOC	1 Year ⁽⁴⁾	3 Year ^{(3) (4)}	5 Year ^{(3) (4)}	Monthly Extension
-Per Port					
DS1	S9QWX	\$227.82	\$227.82	\$45.00	\$319.86
DS3	S9QGX/S9Q++	546.75	546.75	110.00	738.12
DS3 w/Transmux ⁽¹⁾	S4NGX	250.00	250.00	200.00	300.00
EC-1	S9TZX	120.00	120.00	110.00	150.00
OC-3, OC-3c	S9NEX/S9N++	615.11	615.11	120.00	1,107.18
OC-12, OC-12c	S9NGX/S9N++	1,480.80	1,480.80	300.00	2,706.42
OC-48, OC-48c	S9NJX/S9N++	3,758.93	3,758.93	760.00	7,012.08
OC-192	S9T4X	15,035.63	15,035.63	3,000.00	28,048.28
100 Mbps Ethernet (STS-1) at OC-192	S9TNX	145.00	145.00	130.00	225.00
100 Mbps Ethernet (STS-3c) at OC-192	S9TOX	180.00	180.00	160.00	280.00
1 Gbps Ethernet (STS-1) at OC-192	S9TPX	250.00	250.00	200.00	350.00
1 Gbps Ethernet (STS-3c) at OC-192	S9TQX	250.00	250.00	200.00	350.00
1 Gbps Ethernet (STS-12c) at OC-192 node*	S9TRX	600.00	600.00	500.00	875.00
1 Gbps Ethernet (STS-24c) at OC-192 node*	S9TSX	900.00	900.00	850.00	1,500.00

Description	USOC	1 Year ⁽⁴⁾	3 Year ^{(3) (4)}	5 Year ^{(3) (4)}	Monthly Extension
-Per port (Re-Map) ⁽²⁾					
Per DS1 Re-Map Block (consists of 28 DS1 ports) at OC-192 Ring	RN76X	\$1,400.00	\$1,400.00	\$1,260.00	\$1,820.00
Per DS3 Re-Map Block (consists of 3 DS3 ports at OC-192 Ring	RN77X	360.00	360.00	330.00	400.00
Per DS3 Re-Map Port at OC-192 Ring	RN71X	120.00	120.00	110.00	150.00
Per DS3 Transmux Re-Map ⁽¹⁾	RN7TX	200.00	200.00	250.00	300.00
Per EC-1 Re-Map Port at OC-192 Ring	S4NMX	120.00	120.00	110.00	150.00
Per OC-3 Re-Map Port at OC-192 Ring	RN72X	150.00	150.00	135.00	190.00
Per OC-12 Re-Map Port at OC-192 Ring	RN73X	375.00	375.00	360.00	475.00
Per OC-48 Re-Map Port at OC-192 Ring	RN74X	825.00	825.00	700.00	1,425.00

(1) Available for rings established on or after 09/08/07.

(2) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.

(3) All term plans for OC-192 Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.

(4) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

Description	USOC	1 Year ⁽⁷⁾	3 year ^{(6) (7)}	5 Year ^{(6) (7)}	Monthly Extension
EoS Ports Virtual Concatenation (VCAT) ⁽¹⁾ - per multiplexing function					
10/100 BaseT Ethernet Port	S5P1X	250.00	250.00	180.00	350.00
Bandwidth options for port ^{(2) (4) (5)}					
VT1.5-1v (1.6 Mbps)					
VT1.5-2v (3.2 Mbps)					
VT1.5-3v (4.8 Mbps)					
VT1.5-4v (6.4 Mbps)					
VT1.5-5v (8.0 Mbps)					
VT1.5-6v (9.6 Mbps)					
VT1.5-7v (11.2 Mbps)					
VT1.5-8v (12.4 Mbps)					
VT1.5-10v (16.0 Mbps)					
VT1.5-13v (20.8 Mbps)					
STS-1-1v (48.38 Mbps)					
STS-1-2v (96.77 Mbps)					
1000 Base SX Ethernet Port	S5P2X	425.00	425.00	350.00	500.00
1000 Base LX Ethernet Port	S5P3X	425.00	425.00	350.00	500.00
Bandwidth options for port ^{(3) (4) (5)}					
STS-1-1v (48.38 Mbps)					
STS-1-2v (96.77 Mbps)					
STS-1-3v (145.15 Mbps)					
STS-1-4v (193.54 Mbps)					
STS-1-5v (241.92 Mbps)					
STS-1-6v (290.30 Mbps)					
STS-1-9v (435.46 Mbps)					
STS-1-12v (580.61 Mbps)					
STS-1-21v (1016.06 Mbps)					
STS-3c-1v (149.76 Mbps)					
STS-3c-2v (299.52 Mbps)					
STS-3c-3v (449.28 Mbps)					
STS-3c-4v (599.04 Mbps)					
STS-3c-7v (1048.32 Mbps)					

- (1) Nonrecurring charges apply to EoS Ports, Virtual Concatenation (VCAT). See EoS Port charges in Section 31.5.2.12.1(C), for applicable nonrecurring charges.
- (2) Actual payload capacity for selected bandwidth.
- (3) Actual Payload capacity for selected bandwidth applies to both SX and LX.
- (4) Only Single-Mode Fiber is available in the Central Office.
- (5) The EoS line rates defined herein are based on the theoretical SONET payload line rates per GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.
- (6) All term plans for OC-192 Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.
- (7) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.
Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

Description	USOC	Nonrecurring Charge
Nonrecurring charges for subsequent installation		
- Per port type		
DS1	NRBSY	\$350.00
DS3	NRBSX	385.00
DS3 w/Transmux ⁽¹⁾	NRBSX	385.00
EC-1	NRBSX	385.00
OC-3, OC-3c	NRBSW	400.00
OC-12, OC-12c	NRBSZ	400.00
OC-48, OC-48c	NRBN9	425.00
OC-192	NRBN2	750.00
100 Mbps Ethernet (STS-1) at OC-192 node	NRM63	385.00
100 Mbps Ethernet (STS-3c) at OC-192 node	NRM64	385.00
1 Gbps Ethernet (STS-1) at OC-192 node	NRM65	425.00
1 Gbps Ethernet (STS-3c) at OC-192 node*	NRM66	425.00
1 Gbps Ethernet (STS-12c) at OC-192 node*	NRM67	425.00
1 Gbps Ethernet (STS-24c) at OC-192 node*	NRM68	425.00
10/100 BaseT Ethernet Port	NRM63	385.00
1000 BaseLX Ethernet Port	NRM65	425.00
1000 BaseSX Ethernet Port	NRM66	425.00

(D) Mileage

Description	USOC	1 Year ⁽⁴⁾	3 Year ^{(3) (4)}	5 Year ^{(3) (4)}	Monthly Extension
Per mile between nodes ⁽²⁾	1YAZX/IYA++	\$1,184.63	\$1,184.63	\$220.00	\$1,623.86

* Effective January 21, 2004, new orders for OC-192 Dedicated SONET Ring Service with the EoS enhancement will be served by different equipment. Disconnect of the existing OC-192 Dedicated SONET Ring Service and placement of an order for new OC-192 Dedicated SONET Ring Service with the EoS enhancement is required. Refer to Section 30.3(J) for details.

(1) Available for rings established on or after 09/08/07.

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

(3) All term plans for OC-192 Dedicated SONET Ring Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after July 15, 2017.

(4) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued. Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

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	USOC	1 Year ⁽³⁾	3 Year ⁽³⁾	5 Year ⁽³⁾	Monthly Extension
Each (as required)	RGY/RGY++	\$42,145.32	\$42,145.32	\$7,400.00	\$68,275.43

Description	USOC	Nonrecurring Charge
Nonrecurring charges for subsequent installation of Regenerator ⁽³⁾ - Each (as required)	NRBS5	\$270.00
(F) Shared Network Arrangement		

Description	USOC	Nonrecurring Charge
Processing Charge Per Service Order	NRMCL	\$30.00
(G) <u>Installation and Administrative Charges</u>		

Description	USOC	Nonrecurring Charge
STS-1 Service	ORCMX	\$60.00
Administrative Charge per Service Order	ORCMX	60.00
Design and Central Office Connection Charge, per Initial Ring	NRMCK	2,250.00 ^{(1) (3)}
Re-Map Service ^{(2) (3)}		
Initial Service Script Establishment/Test Charge	NRMR1	5,500.00
Subsequent Script Activity Charge	NRMR3	3,200.00
Scheduled Test Charge	NRMR5	4,200.00
Emergency Re-Map Activation ^{(2) (3)} (per request)	NRMR7	5,000.00

(1) Per Ring Charge for Dedicated Ring Service is applied once per original ring installed.

(2) Effective August 1, 2013, availability of Re-Map nodes is limited to Re-Map nodes that are in service or have been ordered prior to August 1, 2013.

(3) Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new DSRS Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing Service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. Following the expiration of a customer's existing term agreement, Service will be provided on a month-to-month basis at the applicable Monthly rates until the Service is discontinued.
Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

Pages 22 through 29 are hereby deleted in their entirety and removed from this Guidebook.

Pages 30 through 32 are hereby deleted in their entirety and removed from this Guidebook. Rates previously listed on these pages can be found in Part 7, Section 7.

31.5.2.15 Multi-service Optical Network (MON) Ring Service⁽¹⁾(A) Nonrecurring Charges

	<u>USOC</u>	<u>Nonrecurring Charge</u>
(1) Administrative Charge - per customer order	ORCMX	\$125.00
(2) Design and Central Office Connection Charge - per network and per riding circuit	NRMCK	600.00
(3) Customer Connection Charge (Service Establishment) - per node	NRBBL	7,500.00
(4) Customer Connection Charge (Subsequent Installation) - per subsequent shelf	NHCNL	1,000.00

⁽¹⁾ Effective December 10, 2012, new Multi-service Optical Network (MON) Ring Service term plans are no longer available. Following the expiration of their existing term plans, MON Ring Service Customers may continue to purchase service on a month-to-month basis. Customers will be permitted to modify their existing service and will be able to add new circuits to their existing service, but will not be permitted to add new nodes in new locations. Any such new circuits will be subject to, and coterminous with, the Customer's existing term payment plan or term agreement for the service to which they are added.

(B) Recurring Charges

	<u>USOC</u>	<u>Monthly Rates</u>		<u>Monthly Extension</u>
		<u>3 Year</u>	<u>5 Year</u>	
(1) Customer Premises Node (includes first shelf)	F2ND1	\$7,800.00	\$6,240.00	\$10,920.00
(2) Customer Premises Node - per subsequent shelf	F2NDS	5,850.00	4,680.00	8,190.00
(3) Central Office Node (includes first shelf)	F2NC1	7,800.00	6,240.00	10,920.00
(4) Central Office Node - per subsequent shelf	F2NCS	5,850.00	4,680.00	8,190.00
(5) Channel Mileage - per V-H mile or fraction thereof (2 mile min.)	1YAZX	325.00	260.00	455.00
(6) Optical Amplifier - C band (per location)	67QXX	5,400.00	3,600.00	7,600.00
- L ⁽¹⁾ band (per location)	67QSX	5,400.00	3,600.00	7,600.00
(7) Regenerator - (as required) -up to 2.5 Gbps (per shelf)	V8RXX	7,500.00	5,000.00	10,500.00
-up to 10 Gbps (per circuit)	V8R2C	15,000.00	10,000.00	21,000.00
(8) Bulk Power -per first shelf, for shelves 1 thru 4	CBVDX	2,000.00	1,600.00	2,600.00
(9) Bulk Power -per fifth subsequent shelf for shelves 5 thru 8	CBVDS	1,600.00	1,300.00	2,100.00

⁽¹⁾ Available where facilities and equipment permit. This condition only applies to customers purchasing this service after 09/08/07.

(C) Ports

		-per port/per circuit terminating location	Monthly Rates		Monthly Extension
		<u>USOC</u>	<u>3 Year</u>	<u>5 Year</u>	
(1)	ETR/CLO ^{TM/1/} - unprotected channel	POYKW	\$975.00	\$750.00	\$1,400.00
(2)	FICON ^{TM/1/} (1.0625 Gbps) - unprotected channel	POYMW	975.00	750.00	1,400.00
	- protected channel	POYMP	1,950.00	1,500.00	2,800.00
(3)	FICON ^{TM/1/} (2.125 Gbps) - unprotected channel	POYWW	1,700.00	1,300.00	2,400.00
	- protected channel	POYWP	3,400.00	2,600.00	4,800.00
(4)	ISC-1 ^{TM/1/} - unprotected channel	POYJW	1,800.00	1,250.00	2,500.00
	- protected channel	POYJP	3,600.00	2,500.00	5,000.00
(5)	ISC-3 ^{TM/1/} - unprotected channel	POY9W	3,750.00	2,500.00	5,000.00
	- protected channel	POY9P	7,500.00	5,000.00	10,000.00
(6)	Fibre Channel (1.0625 Gbps) - unprotected channel	POYNW	1,200.00	900.00	1,700.00
	- protected channel	POYNP	2,400.00	1,800.00	3,400.00

/1/ ESCONTM, ETR/CLOTM, FICONTM, ISC-1TM, ISC-3TM and GDPSTM are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

		-per port/per circuit terminating location			
		<u>USOC</u>	<u>Monthly 3 Year</u>	<u>Rates 5 Year</u>	<u>Monthly Extension</u>
(7)	Fibre Channel (2.125 Gbps)				
	-unprotected channel	POYYW	\$1,700.00	\$1,300.00	\$2,400.00
	-protected channel	POYYP	3,400.00	2,600.00	4,800.00
(8)	Gigabit Ethernet				
	- unprotected channel	POYLW	1,200.00	900.00	1,700.00
	- protected channel	POYLP	2,400.00	1,800.00	3,400.00
(9)	10 Gigabit Ethernet (WAN-PHY)				
	- unprotected channel	POYTW	15,000.00	12,500.00	21,000.00
	- protected channel	POYTP	20,000.00	16,700.00	28,000.00
(10)	10 Gigabit Ethernet (LAN-PHY)				
	- unprotected channel	POYUW	15,375.00	12,815.00	21,525.00
	- protected channel	POYUP	20,500.00	17,120.00	28,700.00
(11)	SONET OC-12/OC-12c				
	- unprotected channel	POYFW	1,300.00	1,000.00	1,900.00
	- protect channel	POYFP	2,600.00	2,000.00	3,700.00
(12)	SONET OC-48/48c				
	- unprotected channel	POYGW	4,400.00	3,700.00	6,000.00
	- protected channel	POYGP	6,600.00	5,560.00	9,000.00
(13)	SONET OC-192/192c				
	- unprotected channel	POYOW	15,000.00	12,500.00	21,000.00
	- protected channel	POYOP	20,000.00	16,700.00	28,000.00

		-per port/per circuit terminating location			
		<u>USOC</u>	<u>Monthly 3 Year</u>	<u>Rates 5 Year</u>	<u>Monthly Extension</u>
(14)	Sub-Rate System ^{/4/}				
	- unprotected channel	POYSW	\$1,300.00	\$1,000.00	\$1,900.00
	- protected channel	POYSP	2,600.00	2,000.00	3,700.00
(15)	ESCON Riding Circuit ^{TM/1/2/4/}				
	- unprotected channel	POYHW	100.00	100.00	150.00
	- protected channel	POYHP	100.00	100.00	150.00
(16)	Fast Ethernet Riding Circuit ^{/2/4/}				
	- unprotected channel	POYCW	325.00	250.00	500.00
	- protected channel	POYCP	500.00	400.00	800.00
(17)	D1 Video Riding Circuit ^{/2/4/}				
	- unprotected channel	POYVW	100.00	100.00	150.00
	- protected channel	POYVP	100.00	100.00	150.00
(18)	DVB-ASI Riding Circuit ^{/4/}				
	- unprotected channel	PWY5W	100.00	100.00	150.00
	- protected channel	PWY5P	100.00	100.00	150.00
(19)	SONET OC-3/OC-3c Riding Circuit ^{/3/4/}				
	- unprotected channel	POYEW	100.00	100.00	150.00
	- protected channel	POYEP	100.00	100.00	150.00
(20)	GigE/FC/FICON ^{TM/1/} Sub-Rate System				
	- unprotected channel	POY1W	875.00	700.00	1,140.00
	- protected channel	POY1P	1,750.00	1,400.00	2,280.00
(21)	GigE Riding Circuit ^{/5/}				
	- unprotected channel	POY4W	500.00	400.00	650.00
	- protected channel	POY4P	1,000.00	800.00	1,300.00
(22)	Fibre Channel Riding Circuit ^{/5/}				
	- unprotected channel	POY6W	500.00	400.00	650.00
	- protected channel	POY6P	1,000.00	800.00	1,300.00

/1/ ESCONTM, ETR/CLOTM, FICONTM, ISC-1TM, ISC-3TM and GDPSTTM are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

/2/ Available only when ordered with Sub-Rate System or ESCONTM Sub-Rate System.

/3/ Available only when ordered with Sub-Rate System or OC-3/OC-12 Sub-Rate System.

/4/ Available where facilities and equipment permit. This condition only applies to customers purchasing this service after 09/08/07.

/5/ Available only when ordered with GigE/FC/CICON^{TM/1/} Sub-Rate System.

-per port/per circuit terminating location				
	USOC	Monthly Rates		Monthly Extension
		3 Year	5 Year	
(23) FICON ^{TM/1/2/} Riding Circuit				
- unprotected channel	POY7W	400.00	320.00	480.00
- protected channel	POY7P	800.00	640.00	960.00
(24) ESCON ^{TM/1/4/} Sub-Rate System				
- unprotected channel	POY2W	1,500.00	1,125.00	1,950.00
- protected channel	POY2P	3,000.00	2,250.00	3,900.00
(25) OC-3/OC-3c and OC-12/OC-12c ^{/4/} Sub-Rate System				
- unprotected channel	POY3W	1,000.00	750.00	1,300.00
- protected channel	POY3P	2,000.00	1,500.00	2,600.00
(26) OC-12/OC-12c ^{/3/4/} Riding Circuit				
- unprotected channel	POY5W	500.00	375.00	700.00
- protected channel	POY5P	1,000.00	750.00	1,400.00
(27) DVB-ASI				
- unprotected channel	POY8W	2,100.00	1,650.00	3,075.00
- protected channel	POY8P	4,200.00	3,300.00	5,775.00
(28) ESCON ^{TM/4/}				
- unprotected channel	PWY1W	1,300.00	1,000.00	1,900.00
- protected channel	PWY1P	2,600.00	2,000.00	3,700.00
(29) Fast Ethernet ^{/4/}				
- unprotected channel	PWY2W	1,300.00	1,000.00	1,900.00
- protected channel	PWY2P	2,600.00	2,000.00	3,700.00
(30) D1 Video				
- unprotected channel	PWY3W	1,300.00	1,000.00	1,900.00
- protected channel	PWY3P	2,600.00	2,000.00	3,700.00
(31) SONET OC-3/OC-3c ^{/4/}				
- unprotected channel	PWY4W	1,300.00	1,000.00	1,900.00
- protected channel	PWY4P	2,600.00	2,000.00	3,700.00
(32) OC-48/OC-48c SONET Sub-Rate System 4:1 ^{/4/}				
- unprotected channel	POYRW	3,500.00	2,750.00	4,250.00
- protected channel	POYRP	7,000.00	5,500.00	8,500.00
(33) SONET OC-48/OC-48c ^{/4/5/} Riding Circuit				
- unprotected channel	POYZW	1,900.00	1,200.00	2,800.00
- protected channel	POYZP	3,800.00	2,400.00	5,600.00

/1/ ESCONTM, ETR/CLOTM, FICONTM, ISC-1TM, ISC-3TM and GDPTM are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

/2/ Available only when ordered with GigE/FC/FICON^{TM/1/} Sub-Rate System.

/3/ Available only when ordered with Sub-Rate System or OC-3/OC-12 Sub-Rate System.

/4/ Available only where facilities and equipment permit. This condition only applies to customers purchasing this service after 09/08/07.

/5/ Available only when ordered with an OC-48 Sub-Rate System.

Pages 39 through 43 are hereby deleted in their entirety and removed from this Guidebook. Rates previously listed on these pages can be found in Part 7, Section 23.

31.5.2.17 Wavelength Metropolitan Area Network (WaveMANSM)(1) Recurring Charges(a) OC-48

		Term Pricing Plan					
	USOC	Monthly Extension	12 Mo.	24 Mo.	36 Mo.	60 Mo.	NRC
(1) Local Distribution Channel							
-Per Point of Termination Terminating Bit Rate 2.5 Gbps							
-All States	TMECS	\$9,000.00	\$7,500.00	\$6,000.00	\$4,700.00	\$3,800.00	
(2) Interoffice Transport Mileage							
-Fixed							
-All States	1L5XX	\$1,400.00	\$1,100.00	\$800.00	\$600.00	\$500.00	
-Per Mile 2.5 Gbps							
-All States	1L5XX	\$425.00	\$300.00	\$260.00	\$240.00	\$200.00	
(3) Repeater							
-each	VU4	\$3,100.00	\$2,640.00	\$2,100.00	\$1,500.00	\$1,300.00	
(4) Diversity Options							
Local Channel Diversity							
-Per Channel Terminating Bit Rate 2.5 Gbps							
-All States	CPALX	\$1,400.00	\$1,200.00	\$1,000.00	\$900.00	\$800.00	\$850.00
Inter Wire Center Diversity							
-Per Channel Terminating Bit Rate 2.5 Gbps							
-All States	CPATX	\$1,050.00	\$800.00	\$700.00	\$600.00	\$500.00	\$700.00
Alternate Wire Center Diversity							
-Per Channel Terminating Bit Rate 2.5 Gbps							
-All States	CPAAX	\$2,500.00	\$1,900.00	\$1,700.00	\$1,400.00	\$1,200.00	\$950.00

	USOC	Monthly Extension	12 Mo.	Term Pricing Plan			NRC
				24 Mo.	36 Mo.	60 Mo.	
(5) Protection - per WaveMAN SM service arranged							
-Equipment Only Protection, per terminating end	CPAEX	\$2,250.00	\$2,000.00	\$1,800.00	\$1,550.00	\$1,350.00	\$625.00
-Equipment Plus Alternate Wire Center Path Protection, per terminating end	CPAFX	\$3,700.00	\$3,050.00	\$2,750.00	\$2,400.00	\$2,100.00	\$1,400.00
-Equipment Plus Channel Termination (Local Channel) Path Protection, per terminating end	CPAGX	\$3,250.00	\$2,700.00	\$2,400.00	\$2,100.00	\$1,800.00	\$1,255.00
-Inter Wire Center Path Protection, per interoffice segment	CPAHX	\$570.00	\$450.00	\$240.00	\$180.00	\$120.00	\$625.00
-Power Protection ⁽¹⁾	VBBGX	\$700.00	\$625.00	\$525.00	\$480.00	\$435.00	\$475.00
(6) -Collocation Transport facilities between Collocation Arrangements							
-Fixed	1H48S	\$5,200.00	\$4,100.00	\$3,250.00	\$2,800.00	\$1,800.00	
-Per Mile	1H48S	\$425.00	\$300.00	\$260.00	\$240.00	\$200.00	

⁽¹⁾ Power Protection rate elements are applicable as set forth in Section 24.1 (J) (3) (d).

(b) OC-192

		Term Pricing Plan					
	USOC	Monthly Extension	12 Mo.	24 Mo.	36 Mo.	60 Mo.	NRC
(1) Local Distribution Channel -Per Point of Termination Terminating Bit Rate 10 Gbps							
-All States	TMECS	\$22,770.00	\$18,000.00	\$15,000.00	\$10,500.00	\$9,000.00	
(2) Interoffice Transport Mileage -Fixed							
-All States	1L5XX	\$1,800.00	\$1,350.00	\$900.00	\$650.00	\$575.00	
-Per Mile 10 Gbps							
-All States	1L5XX	\$425.00	\$300.00	\$260.00	\$240.00	\$200.00	
(3) Repeater -each	VU4	\$7,920.00	\$6,600.00	\$5,280.00	\$3,840.00	\$3,280.00	
(4) Diversity Options Local Channel Diversity -Per Channel Terminating Bit Rate 10 Gbps							
-All States	CPALX	\$3,938.00	\$3,038.00	\$2,700.00	\$2,250.00	\$2,025.00	\$850.00
Inter Wire Center Diversity -Per Channel Terminating Bit Rate 10 Gbps							
-All States	CPATX	\$2,625.00	\$2,025.00	\$1,800.00	\$1,500.00	\$1,350.00	\$700.00
Alternate Wire Center Diversity -Per Channel Terminating Bit Rate 10 Gbps							
-All States	CPAAX	\$6,300.00	\$4,860.00	\$4,320.00	\$3,600.00	\$3,240.00	\$950.00

	USOC	Monthly		Term Pricing Plan			NRC
		Extension	12 Mo.	24 Mo.	36 Mo.	60 Mo.	
(5) Protection - per WaveMAN SM service arranged							
-Equipment Only Protection, per terminating end	CPAEX	\$9,000.00	\$8,250.00	\$7,350.00	\$6,300.00	\$5,400.00	\$3,000.00
-Equipment Plus Alternate Wire Center Path Protection, per terminating end	CPAFX	\$14,760.00	\$12,300.00	\$11,040.00	\$9,600.00	\$8,400.00	\$4,500.00
-Equipment Plus Channel Termination (Local Channel) Path Protection, per terminating end	CPAGX	\$13,140.00	\$10,950.00	\$9,900.00	\$8,550.00	\$7,350.00	\$4,200.00
-Inter Wire Center Path Protection, per interoffice segment	CPAHX	\$1,425.00	\$1,125.00	\$600.00	\$450.00	\$300.00	\$625.00
-Power Protection ⁽¹⁾	VBBGX	\$700.00	\$625.00	\$525.00	\$480.00	\$435.00	\$475.00
(6) -Collocation Transport facilities between Collocation Arrangements							
-Fixed	1H48S	\$9,600.00	\$6,700.00	\$4,800.00	\$4,200.00	\$3,800.00	
-Per Mile	1H48S	\$425.00	\$300.00	\$260.00	\$240.00	\$200.00	

⁽¹⁾ Power Protection rate elements are applicable as set forth in Section 24.1 (J) (3) (d).

(c) Transparent Transport (100 Mbps - 2.5 Gbps)

	USOC	Monthly Extension	Term Pricing Plan 60 Mo.
(1) Local Distribution Channel			
-Per Point of Termination Terminating Bit Rate 100 Mbps - 2.5 Gbps	TMECS	\$9,000.00	\$3,800.00
(2) Interoffice Transport Mileage			
a) Channel Mileage			
-Fixed 100 Mbps - 2.5 Gbps	1L5XX	\$1,400.00	\$500.00
b) Channel Mileage			
-Per Mile 100 Mbps - 2.5 Gbps	1L5XX	\$425.00	\$200.00

(d) Transparent Transport (2.5 Gbps - 10 Gbps)

	USOC	Monthly Extension	Term Pricing Plan 60 Mo.
(1) Local Distribution Channel			
-Per Point of Termination Terminating Bit Rate 2.5 Gbps to 10 Gbps	TMECS	\$22,770.00	\$9,000.00
(2) Interoffice Transport Mileage			
a) Channel Mileage			
-Fixed 2.5 Gbps to 10 Gbps	1L5XX	\$1,800.00	\$575.00
b) Channel Mileage			
-Per Mile 2.5 Gbps to 10 Gbps	1L5XX	\$425.00	\$200.00

(2) Installation and Rearrangement Charges(a) OC-48,
Transparent Transport (100 Mbps-2.5 Gbps)

	<u>USOC</u>	<u>Nonrecurring Charges</u> ⁽¹⁾
(1) Administrative Charge per Order	ORCMX	\$60.00
(2) Design Central Office Connection Charge per circuit	NRMCK	\$600.00
(3) Customer Connection Charge per Termination	NRBBL	\$1,500.00

(b) OC-192,
Transparent Transport (2.5 Gbps - 10 Gbps)

	<u>USOC</u>	<u>Nonrecurring Charges</u> ⁽¹⁾
(1) Administrative Charge per Order	ORCMX	\$60.00
(2) Design Central Office Connection Charge per circuit	NRMCK	\$600.00
(3) Customer Connection Charge per Termination	NRBBL	\$1,500.00

⁽¹⁾ The installation Non-recurring charges will be waived for customers purchasing a new 36-or 60-month term pricing plan. This waiver does not include moves and upgrades of service.

31.5.3 Access Order Charges

(A) Access Order Charges

- (1) The following access order charge applies to the Special Access Service.

	<u>USOC</u>	<u>Charge per Access Order/Request</u>
Special Access Order Charge	NRBAO	\$22.00

31.5.4 Not in Use

31.6 Pacific Bell Wire Center Information

31.6.1 MSAs with Limited Service Relief

State	Wire Center CLLI	MSA Name
CA	ARVNCA11	BAKERSFIELD
CA	BKFDCA11	BAKERSFIELD
CA	BKFDCA12	BAKERSFIELD
CA	BKFDCA13	BAKERSFIELD
CA	BKFDCA14	BAKERSFIELD
CA	BKFDCA15	BAKERSFIELD
CA	BKFDCA17	BAKERSFIELD
CA	BKFDCA19	BAKERSFIELD
CA	BVSPCA11	BAKERSFIELD
CA	DELNCA11	BAKERSFIELD
CA	EDWRCA01	BAKERSFIELD
CA	FZPKCA11	BAKERSFIELD
CA	LAMTCA11	BAKERSFIELD
CA	LEBCCA11	BAKERSFIELD
CA	LEBCCA12	BAKERSFIELD
CA	MOJVCA01	BAKERSFIELD
CA	OLDLCA11	BAKERSFIELD
CA	RSMDCA11	BAKERSFIELD
CA	SHFTCA11	BAKERSFIELD
CA	THCHCA01	BAKERSFIELD
CA	WASCCA01	BAKERSFIELD
CA	WLBSA11	BAKERSFIELD
CA	CWLDCA12	MODESTO
CA	HGSNCA11	MODESTO
CA	KNFYCA11	MODESTO
CA	MDSTCA02	MODESTO
CA	MDSTCA03	MODESTO
CA	MDSTCA04	MODESTO
CA	MDSTCA05	MODESTO
CA	MDSTCA52	MODESTO
CA	NWMNCA12	MODESTO
CA	OKDLCA11	MODESTO
CA	RVRBCA11	MODESTO
CA	TRLCCA11	MODESTO
CA	WTFRCA11	MODESTO
CA	FLMRCA11	OXNARD/VENTURA
CA	MRPKCA12	OXNARD/VENTURA
CA	OJAICA11	OXNARD/VENTURA
CA	OKVWCA11	OXNARD/VENTURA
CA	PIRUCA11	OXNARD/VENTURA
CA	SATCCA12	OXNARD/VENTURA
CA	SIMICA11	OXNARD/VENTURA
CA	VNTRCA02	OXNARD/VENTURA
CA	VNTRCA11	OXNARD/VENTURA
CA	AUBNCA01	SACRAMENTO
CA	AUBNCA11	SACRAMENTO
CA	BCWYCA11	SACRAMENTO
CA	DAVSCA11	SACRAMENTO
CA	DNGNCA12	SACRAMENTO
CA	DTFLCA11	SACRAMENTO

State	Wire Center CLLI	MSA Name
CA	ESPRCA11	SACRAMENTO
CA	FLSMCA12	SACRAMENTO
CA	FLSMCA14	SACRAMENTO
CA	FROKCA11	SACRAMENTO
CA	GALTCA11	SACRAMENTO
CA	HERLCA11	SACRAMENTO
CA	HMWDCA11	SACRAMENTO
CA	LNCLCA11	SACRAMENTO
CA	LOMSCA11	SACRAMENTO
CA	MCLNCABC	SACRAMENTO
CA	NHLDCA11	SACRAMENTO
CA	NSCRCA11	SACRAMENTO
CA	NSCRCA12	SACRAMENTO
CA	NWCSCA11	SACRAMENTO
CA	ORVACA11	SACRAMENTO
CA	RCKLCA11	SACRAMENTO
CA	RILNCA12	SACRAMENTO
CA	RNMRC11	SACRAMENTO
CA	SCRMCA01	SACRAMENTO
CA	SCRMCA02	SACRAMENTO
CA	SCRMCA03	SACRAMENTO
CA	SCRMCA11	SACRAMENTO
CA	SCRMCA12	SACRAMENTO
CA	SCRMCA13	SACRAMENTO
CA	THCYCA01	SACRAMENTO
CA	TRUCCA12	SACRAMENTO
CA	WDLCA11	SACRAMENTO
CA	WNTRCA11	SACRAMENTO
CA	WSCRC11	SACRAMENTO
CA	ALPICA12	SAN DIEGO
CA	BRSPCA11	SAN DIEGO
CA	CAMPCA11	SAN DIEGO
CA	CHVSCA11	SAN DIEGO
CA	CHVSCA12	SAN DIEGO
CA	CMPDCA01	SAN DIEGO
CA	CRLSCA11	SAN DIEGO
CA	CRLSCA12	SAN DIEGO
CA	CRNDCA11	SAN DIEGO
CA	DLMRCA12	SAN DIEGO
CA	DLZRCA11	SAN DIEGO
CA	ELCJCA11	SAN DIEGO

State	Wire Center CLLI	MSA Name
CA	ENCTCA12	SAN DIEGO
CA	ESCNCA01	SAN DIEGO
CA	FLBKCA12	SAN DIEGO
CA	IMBHCA11	SAN DIEGO
CA	JAMLCA60	SAN DIEGO
CA	JCMBCA11	SAN DIEGO
CA	JULNCA12	SAN DIEGO
CA	LAJLCA11	SAN DIEGO
CA	LAMSCA01	SAN DIEGO
CA	LKSDCA12	SAN DIEGO
CA	NTCYCA11	SAN DIEGO
CA	OCSOCA11	SAN DIEGO
CA	OTMSCA11	SAN DIEGO
CA	PALACA11	SAN DIEGO
CA	PCBHCA01	SAN DIEGO
CA	PCBHCA11	SAN DIEGO
CA	PNVYCA11	SAN DIEGO
CA	POWYCA11	SAN DIEGO
CA	RAMNCA11	SAN DIEGO
CA	RBRNCA11	SAN DIEGO
CA	RNPSCA11	SAN DIEGO
CA	RNSDCA11	SAN DIEGO
CA	RSFECA12	SAN DIEGO
CA	SANTCA01	SAN DIEGO
CA	SNDGCA01	SAN DIEGO
CA	SNDGCA02	SAN DIEGO
CA	SNDGCA03	SAN DIEGO
CA	SNDGCA05	SAN DIEGO
CA	SNDGCA06	SAN DIEGO
CA	SNDGCA11	SAN DIEGO
CA	SNDGCA12	SAN DIEGO
CA	SNDGCA14	SAN DIEGO
CA	SNDGCA15	SAN DIEGO
CA	SNDGCA16	SAN DIEGO
CA	SNMCCA11	SAN DIEGO
CA	SNYSKA12	SAN DIEGO
CA	VISTCA12	SAN DIEGO
CA	VLCTCA11	SAN DIEGO
CA	WNSPCA12	SAN DIEGO

State	Wire Center CLLI	MSA Name
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State	Wire Center CLLI	MSA Name
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CA	ANNPCA11	SANTA ROSA
CA	BDBACA11	SANTA ROSA
CA	CODLCA11	SANTA ROSA
CA	CTTICA12	SANTA ROSA
CA	FSVLCA11	SANTA ROSA
CA	GUVLCA11	SANTA ROSA
CA	GYVLCA11	SANTA ROSA
CA	HLBGCA11	SANTA ROSA
CA	MNRICA11	SANTA ROSA
CA	OCDNCA11	SANTA ROSA
CA	PTLMCA01	SANTA ROSA
CA	RTPKCA11	SANTA ROSA
CA	SBSTCA11	SANTA ROSA
CA	SNRSCA01	SANTA ROSA
CA	SNRSCA11	SANTA ROSA
CA	SONMCA12	SANTA ROSA
CA	VYFRCA11	SANTA ROSA
CA	WNDSKA11	SANTA ROSA
CA	ESCLCA11	STOCKTON
CA	LCFRCA11	STOCKTON
CA	LODICA01	STOCKTON
CA	SKTNCA01	STOCKTON
CA	SKTNCA11	STOCKTON
CA	SKTNCA12	STOCKTON
CA	SKTNCA14	STOCKTON
CA	THTNCA11	STOCKTON
CA	TRACCA11	STOCKTON

31.6.2 MSAs with Full Service Relief

State	Wire Center CLLI	MSA Name
CA	BURLCA11	FRESNO
CA	CLNGCA01	FRESNO
CA	CLVSCA11	FRESNO
CA	CRTHCA11	FRESNO
CA	DLRYCA11	FRESNO
CA	FRBHCA11	FRESNO
CA	FRSNCA01	FRESNO
CA	FRSNCA11	FRESNO
CA	FRSNCA12	FRESNO
CA	FRSNCA13	FRESNO
CA	FRSNCA14	FRESNO
CA	FRSNCA15	FRESNO
CA	FVPNCA11	FRESNO
CA	HURNCA11	FRESNO
CA	KGBGCA11	FRESNO
CA	LATNCA11	FRESNO
CA	MNDTCA11	FRESNO
CA	ORCVCA11	FRESNO
CA	PRLRCA11	FRESNO
CA	RVDLCA11	FRESNO
CA	SELMCA11	FRESNO
CA	ACTNCA11	LOS ANGELES/LONG BEACH
CA	AGDLCA11	LOS ANGELES/LONG BEACH
CA	AGORCA11	LOS ANGELES/LONG BEACH
CA	ALHBCA01	LOS ANGELES/LONG BEACH
CA	ANHMCA01	LOS ANGELES/LONG BEACH
CA	ANHMCA02	LOS ANGELES/LONG BEACH
CA	ANHMCA11	LOS ANGELES/LONG BEACH
CA	ANHMCA12	LOS ANGELES/LONG BEACH
CA	ANHMCA17	LOS ANGELES/LONG BEACH
CA	ARCDCA11	LOS ANGELES/LONG BEACH
CA	ARTNCA11	LOS ANGELES/LONG BEACH
CA	AVLNCA11	LOS ANGELES/LONG BEACH
CA	BAKRCA11	LOS ANGELES/LONG BEACH
CA	BALBCA01	LOS ANGELES/LONG BEACH
CA	BELLCA11	LOS ANGELES/LONG BEACH
CA	BNPKCA11	LOS ANGELES/LONG BEACH
CA	BRBNCA11	LOS ANGELES/LONG BEACH
CA	BRBNCA13	LOS ANGELES/LONG BEACH
CA	BREACA12	LOS ANGELES/LONG BEACH
CA	BVHLCA01	LOS ANGELES/LONG BEACH
CA	CLBSCA11	LOS ANGELES/LONG BEACH

State	Wire Center CLLI	MSA Name
CA	CLBSCA50	LOS ANGELES/LONG BEACH
CA	CLCYCA11	LOS ANGELES/LONG BEACH
CA	CMTNCA01	LOS ANGELES/LONG BEACH
CA	CNPKCA01	LOS ANGELES/LONG BEACH
CA	CORNCA11	LOS ANGELES/LONG BEACH
CA	COTNCA11	LOS ANGELES/LONG BEACH
CA	CRDMCA11	LOS ANGELES/LONG BEACH
CA	CSMSCA11	LOS ANGELES/LONG BEACH
CA	CSTCCA11	LOS ANGELES/LONG BEACH
CA	ELMNCA01	LOS ANGELES/LONG BEACH
CA	ELSGCA12	LOS ANGELES/LONG BEACH
CA	ELTRCA11	LOS ANGELES/LONG BEACH
CA	FNTACA11	LOS ANGELES/LONG BEACH
CA	FUTNCA01	LOS ANGELES/LONG BEACH
CA	GLDLCA11	LOS ANGELES/LONG BEACH
CA	GRDNCA01	LOS ANGELES/LONG BEACH
CA	GRDNCA02	LOS ANGELES/LONG BEACH
CA	GRDNCA03	LOS ANGELES/LONG BEACH
CA	GRGVCA01	LOS ANGELES/LONG BEACH
CA	HGLDCA11	LOS ANGELES/LONG BEACH
CA	HLWDCA01	LOS ANGELES/LONG BEACH
CA	HNPCKA01	LOS ANGELES/LONG BEACH
CA	HWTHCA01	LOS ANGELES/LONG BEACH
CA	IGWDCA01	LOS ANGELES/LONG BEACH
CA	IRVNCA01	LOS ANGELES/LONG BEACH
CA	IRVNCA11	LOS ANGELES/LONG BEACH
CA	IRVNCA12	LOS ANGELES/LONG BEACH
CA	LACNCA11	LOS ANGELES/LONG BEACH
CA	LACRCA11	LOS ANGELES/LONG BEACH
CA	LGNGCA12	LOS ANGELES/LONG BEACH
CA	LKLACA11	LOS ANGELES/LONG BEACH
CA	LNVCYA11	LOS ANGELES/LONG BEACH
CA	LOMTCA11	LOS ANGELES/LONG BEACH
CA	LSANCA01	LOS ANGELES/LONG BEACH
CA	LSANCA02	LOS ANGELES/LONG BEACH
CA	LSANCA03	LOS ANGELES/LONG BEACH
CA	LSANCA04	LOS ANGELES/LONG BEACH
CA	LSANCA05	LOS ANGELES/LONG BEACH
CA	LSANCA06	LOS ANGELES/LONG BEACH
CA	LSANCA07	LOS ANGELES/LONG BEACH
CA	LSANCA08	LOS ANGELES/LONG BEACH
CA	LSANCA09	LOS ANGELES/LONG BEACH
CA	LSANCA10	LOS ANGELES/LONG BEACH
CA	LSANCA11	LOS ANGELES/LONG BEACH
CA	LSANCA12	LOS ANGELES/LONG BEACH

State	Wire Center CLLI	MSA Name
CA	LSANCA13	LOS ANGELES/LONG BEACH
CA	LSANCA14	LOS ANGELES/LONG BEACH
CA	LSANCA15	LOS ANGELES/LONG BEACH
CA	LSANCA23	LOS ANGELES/LONG BEACH
CA	LSANCA29	LOS ANGELES/LONG BEACH
CA	LSANCA34	LOS ANGELES/LONG BEACH
CA	LSANCA35	LOS ANGELES/LONG BEACH
CA	LSANCA38	LOS ANGELES/LONG BEACH
CA	LSANCA56	LOS ANGELES/LONG BEACH
CA	LTRKCA11	LOS ANGELES/LONG BEACH
CA	MSVJCAAT	LOS ANGELES/LONG BEACH
CA	MTPSCA11	LOS ANGELES/LONG BEACH
CA	NHLLCA01	LOS ANGELES/LONG BEACH
CA	NHWDCA01	LOS ANGELES/LONG BEACH
CA	NHWDCA02	LOS ANGELES/LONG BEACH
CA	NORGCA11	LOS ANGELES/LONG BEACH
CA	ORNGCA11	LOS ANGELES/LONG BEACH
CA	ORNGCA13	LOS ANGELES/LONG BEACH
CA	ORNGCA14	LOS ANGELES/LONG BEACH
CA	PDLYCA11	LOS ANGELES/LONG BEACH
CA	PLCNCA11	LOS ANGELES/LONG BEACH
CA	PLDLCA01	LOS ANGELES/LONG BEACH
CA	PLDLCA11	LOS ANGELES/LONG BEACH
CA	PRMTCA01	LOS ANGELES/LONG BEACH
CA	PSDNCA11	LOS ANGELES/LONG BEACH
CA	PSDNCA12	LOS ANGELES/LONG BEACH
CA	RESDCA01	LOS ANGELES/LONG BEACH
CA	RILTCA11	LOS ANGELES/LONG BEACH
CA	ROSMCA11	LOS ANGELES/LONG BEACH
CA	RSMGCA11	LOS ANGELES/LONG BEACH
CA	RVSDCA01	LOS ANGELES/LONG BEACH
CA	RVSDCA11	LOS ANGELES/LONG BEACH
CA	SAGSCA11	LOS ANGELES/LONG BEACH
CA	SGATCA01	LOS ANGELES/LONG BEACH
CA	SHOKCA01	LOS ANGELES/LONG BEACH
CA	SHOKCA02	LOS ANGELES/LONG BEACH
CA	SHOKCA04	LOS ANGELES/LONG BEACH
CA	SHOKCA05	LOS ANGELES/LONG BEACH
CA	SJCPCA12	LOS ANGELES/LONG BEACH
CA	SLMNCA11	LOS ANGELES/LONG BEACH
CA	SLVRCA11	LOS ANGELES/LONG BEACH
CA	SNANCA01	LOS ANGELES/LONG BEACH
CA	SNANCA11	LOS ANGELES/LONG BEACH
CA	SNANCA12	LOS ANGELES/LONG BEACH
CA	SNCLCA12	LOS ANGELES/LONG BEACH

State	Wire Center CLLI	MSA Name
CA	SNGBCA01	LOS ANGELES/LONG BEACH
CA	SNPDCA01	LOS ANGELES/LONG BEACH
CA	SPSDCA11	LOS ANGELES/LONG BEACH
CA	TRNCCA11	LOS ANGELES/LONG BEACH
CA	TUSTCA11	LOS ANGELES/LONG BEACH
CA	TUSTCA70	LOS ANGELES/LONG BEACH
CA	VNNYCA02	LOS ANGELES/LONG BEACH
CA	WLANCA01	LOS ANGELES/LONG BEACH
CA	WLMGCA01	LOS ANGELES/LONG BEACH
CA	YRLNCA11	LOS ANGELES/LONG BEACH
CA	YRLNCA12	LOS ANGELES/LONG BEACH
CA	ALBYCA11	SAN FRANCISCO/OAKLAND
CA	ALMDCA11	SAN FRANCISCO/OAKLAND
CA	ANTCCA11	SAN FRANCISCO/OAKLAND
CA	BKLYCA01	SAN FRANCISCO/OAKLAND
CA	BRLNCA01	SAN FRANCISCO/OAKLAND
CA	BRWDCA12	SAN FRANCISCO/OAKLAND
CA	BSRNCA70	SAN FRANCISCO/OAKLAND
CA	BTISCA11	SAN FRANCISCO/OAKLAND
CA	CNCRCA01	SAN FRANCISCO/OAKLAND
CA	COLACA01	SAN FRANCISCO/OAKLAND
CA	CRCTCA02	SAN FRANCISCO/OAKLAND
CA	CYTNCA11	SAN FRANCISCO/OAKLAND
CA	DAVLCA12	SAN FRANCISCO/OAKLAND
CA	DAVLCA13	SAN FRANCISCO/OAKLAND
CA	ELSBCA11	SAN FRANCISCO/OAKLAND
CA	FRMTCA11	SAN FRANCISCO/OAKLAND
CA	FRMTCA12	SAN FRANCISCO/OAKLAND
CA	HMBACA12	SAN FRANCISCO/OAKLAND
CA	HRCLCA11	SAN FRANCISCO/OAKLAND
CA	HYWRCA01	SAN FRANCISCO/OAKLAND
CA	HYWRCA11	SAN FRANCISCO/OAKLAND
CA	IGNCCA12	SAN FRANCISCO/OAKLAND
CA	INVRCA11	SAN FRANCISCO/OAKLAND
CA	LAHNCA11	SAN FRANCISCO/OAKLAND
CA	LFYTCA11	SAN FRANCISCO/OAKLAND
CA	LRKSCA11	SAN FRANCISCO/OAKLAND
CA	LVMRCA11	SAN FRANCISCO/OAKLAND
CA	MLBRCA11	SAN FRANCISCO/OAKLAND
CA	MLVYCA01	SAN FRANCISCO/OAKLAND
CA	MNPKCA11	SAN FRANCISCO/OAKLAND
CA	MORGCA12	SAN FRANCISCO/OAKLAND
CA	MRTZCA11	SAN FRANCISCO/OAKLAND
CA	MSBHCA11	SAN FRANCISCO/OAKLAND
CA	NICSCA11	SAN FRANCISCO/OAKLAND
CA	OKLDCA03	SAN FRANCISCO/OAKLAND
CA	OKLDCA04	SAN FRANCISCO/OAKLAND
CA	OKLDCA11	SAN FRANCISCO/OAKLAND
CA	OKLDCA12	SAN FRANCISCO/OAKLAND

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State	Wire Center CLLI	MSA Name
CA	OKLDCA13	SAN FRANCISCO/OAKLAND
CA	OKLYCA11	SAN FRANCISCO/OAKLAND
CA	ORNDCA11	SAN FRANCISCO/OAKLAND
CA	PCFCCA11	SAN FRANCISCO/OAKLAND
CA	PLTNCA12	SAN FRANCISCO/OAKLAND
CA	PLTNCA13	SAN FRANCISCO/OAKLAND
CA	PRSNCA11	SAN FRANCISCO/OAKLAND
CA	PSBGCA01	SAN FRANCISCO/OAKLAND
CA	PSBGCA11	SAN FRANCISCO/OAKLAND
CA	PSCDCA11	SAN FRANCISCO/OAKLAND
CA	RCMDCA11	SAN FRANCISCO/OAKLAND
CA	RDCYCA01	SAN FRANCISCO/OAKLAND
CA	SNBUCA02	SAN FRANCISCO/OAKLAND
CA	SNCRCA11	SAN FRANCISCO/OAKLAND
CA	SNFCCA01	SAN FRANCISCO/OAKLAND
CA	SNFCCA04	SAN FRANCISCO/OAKLAND
CA	SNFCCA05	SAN FRANCISCO/OAKLAND
CA	SNFCCA06	SAN FRANCISCO/OAKLAND
CA	SNFCCA13	SAN FRANCISCO/OAKLAND
CA	SNFCCA14	SAN FRANCISCO/OAKLAND
CA	SNFCCA17	SAN FRANCISCO/OAKLAND
CA	SNFCCA19	SAN FRANCISCO/OAKLAND
CA	SNFCCA21	SAN FRANCISCO/OAKLAND
CA	SNGNCA11	SAN FRANCISCO/OAKLAND
CA	SNLNCA11	SAN FRANCISCO/OAKLAND
CA	SNMTCA11	SAN FRANCISCO/OAKLAND
CA	SNRFCA01	SAN FRANCISCO/OAKLAND
CA	SNRFCA11	SAN FRANCISCO/OAKLAND
CA	SNRMCA11	SAN FRANCISCO/OAKLAND
CA	SSLTCA11	SAN FRANCISCO/OAKLAND
CA	STBHCA11	SAN FRANCISCO/OAKLAND
CA	SUNLCA11	SAN FRANCISCO/OAKLAND
CA	TBRNCA11	SAN FRANCISCO/OAKLAND
CA	TMLSCA12	SAN FRANCISCO/OAKLAND
CA	UNCYCA11	SAN FRANCISCO/OAKLAND
CA	WNCKCA11	SAN FRANCISCO/OAKLAND

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State	Wire Center CLLI	MSA Name
CA	LSATCA11	SAN JOSE
CA	MLPSCA11	SAN JOSE
CA	MTVWCA11	SAN JOSE
CA	PLALCA02	SAN JOSE
CA	PLALCA12	SAN JOSE
CA	SNJSCA02	SAN JOSE
CA	SNJSCA11	SAN JOSE
CA	SNJSCA12	SAN JOSE
CA	SNJSCA13	SAN JOSE
CA	SNJSCA14	SAN JOSE
CA	SNJSCA15	SAN JOSE
CA	SNJSCA18	SAN JOSE
CA	SNJSCA21	SAN JOSE
CA	SNJSCA22	SAN JOSE
CA	SNMACA11	SAN JOSE
CA	SNTCCA01	SAN JOSE
CA	SNTCCA11	SAN JOSE
CA	SNVACA01	SAN JOSE
CA	SNVACA11	SAN JOSE

32. Optical Carrier Network (OCN) Point-to-Point Service32.1 General Description

OCN Point-to-Point service will be designed to provide the customer with a custom point to point linear network. The Optical Point-to-Point service will offer a highly reliable transport service that is designed to connect customer locations and SBC wire centers in a linear (point to point) configuration. Large volumes of information can be transported between two locations in a dedicated, high-bandwidth optical path. Specifically, the OCN Point-to-Point services can handle voice, data, video, imaging, Internet traffic and other advanced broadband applications.

Rates and charges for Optical Carrier Network (OCN) Point-to-Point Service are set forth in Section 32.3, with the exception of the services provided by the Telephone Company in the Metropolitan Statistical Areas (MSAs) in which the Telephone Company has received Phase II pricing flexibility pursuant to Subpart H of Part 69 of the Commission's Rules. The rates and charges for the Optical Carrier Network (OCN) Point-to-Point Service in the MSAs that have received Phase II pricing flexibility are set forth in Section 31.

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

- (1) OC-3/OC-3c provides channels operating at the terminating bit rate of 155.52 Mbps;
- (2) OC-12/OC-12c provides channels operating at the terminating bit rate of 622.08 Mbps;
- (3) OC-48/OC-48c provides channels operating at the terminating bit rate of 2488.32 Mbps;
- (4) OC-192/OC-192c provides channels operating at the terminating bit rate of 9953.28 Mbps;

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

- (1) a customer designated premises to another customer designated premises, without the add/drop multiplexing capability.
- (2) a customer designated premises to a Telephone Company location where add/drop multiplexing and add/drop functions are performed.
- (3) a SONET Ring and Access Services⁽²⁾ node or a Dedicated SONET Ring Service node in a Telephone Company location to a Collocator's physical or virtual collocation⁽¹⁾--this serving arrangement is referred to as (SMOA) SONET Mapped Optical Arrangement or to a Telephone Company location where add/drop multiplexing and add/drop functions are performed, and this serving arrangement is referred to as (SMUX) SMOA with a MUX.
- (4) two Dedicated SONET Facility nodes in the same or different Telephone Company location--this serving arrangement is referred to as (DIN) Dedicated Interconnection Network.

⁽¹⁾This connection is not available for OC-192.

⁽²⁾ Effective 01/03/06, SONET Ring and Access Service is limited to existing customers at existing locations except where spare capacity exists; customers may add additional locations on existing rings. New SONET ring services will be provided via Dedicated SONET Ring Service.

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

Where appropriate facilities are not immediately available, negotiated intervals or special construction charges may apply. The customer is responsible via the ordering process to identify what STS signal configuration is to be contained in each OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192/OC-192c service connection and each STS-1, STS-3 and/or STS-12 payload content. This information is needed for routing and connection purposes in the network. OCN does not extend the SONET data communication channel overhead across the network interface to the customer's equipment.

Ethernet over SONET (EoS)

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

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

(C) OC-3

- (1) three STS-1 (Synchronous Transport Signals) channels which each contain:
 - (a) one DS3 that is STS-1 mapped; or
 - (b) up to 28 asynchronous DS1s that are VT-mapped; or
 - (c) an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the network; or
 - (d) 1 Gbps Ethernet STS-1 1-2v;
- (2) a single concatenated STS-3C channel.

(D) OC-12

- (1) twelve STS-1 channels which each contain:
 - (a) one DS3 that is STS-1 mapped; or
 - (b) up to 28 asynchronous DS1s that are VT-mapped; or
 - (c) an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the network; or
 - (d) 1 Gbps Ethernet STS-1 1-9v; or
 - (e) 1 Gbps Ethernet STS-3c 1-3v;
- (2) four concatenated STS-3C channels.
- (3) from one to three STS-3Cs channels mixed with from three to nine STS-1 channels subject to utilization of the total OC-12 capacity.
- (4) a single concatenated STS-12C channel.

(E) OC-48

- (1) forty-eight STS-1 channels which each contain:
 - (a) one DS3 that is STS-1 mapped; or
 - (b) up to 28 asynchronous DS1s that are VT-mapped; or
 - (c) an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the network; or
 - (d) 1 Gbps Ethernet STS-1 1-21v; or
 - (e) 1 Gbps Ethernet STS-3c 1-7v;
- (2) sixteen concatenated STS-3C channels.
- (3) from one to fifteen concatenated STS-3C channels, mixed with from three to forty-five STS-1 channels subject to utilization of the total OC-48 capacity.
- (4) four concatenated STS-12Cs channels.
- (5) from one to three concatenated STS-12C channels, mixed with from twelve to thirty-six STS-1 channels subject to utilization of the total OC-48 capacity.
- (6) from one to three concatenated STS-12C channels, mixed with from four to twelve concatenated STS-3C channels, also mixed with from three to thirty-three STS-1 channels subject to utilization of the total OC-48 capacity.
- (7) from one to three concatenated STS-12C channels, mixed with from one to eleven concatenated STS-3C channels, also mixed with from three to thirty-three STS-1 channels, subject to utilization of the total OC-48 capacity.

(F) OC-192

- (1) One hundred ninety two interleaved STS-1 Channels which each contain:
 - (a) one DS3 that is STS-1 mapped; or
 - (b) up to 28 asynchronous DS1s that are VT-mapped; or
 - (c) an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via and Add/Drop Function to DS1 or DS3 services within the network; or
 - (d) 1 Gbps Ethernet STS-1 1-21v; or
 - (e) 1 Gbps Ethernet STS-3c 1-7v;
- (2) Sixty four interleaved concatenated STS-3 channels.
- (3) From one to sixty three interleaved concatenated STS-3c channels, mixed with from three to one hundred eighty nine STS-1 channels, subject to utilization of the total STS-192 capacity.
- (4) Sixteen interleaved concatenated STS-12c channels.
- (5) From one to fifteen interleaved concatenated STS-12c channels mixed with from twelve to one hundred eighty STS-1 channels, subject utilization of the total STS-192 capacity.
- (6) From one to fifteen interleaved concatenated STS-12c channels, mixed with from four to sixty concatenated STS-3c channels subject to utilization of the total STS-192 capacity.
- (7) From one to fifteen interleaved concatenated STS-12c channels, mixed from one to fifty nine concatenated STS-3c channels, also mixed with from three to one hundred seventy seven STS-1 channels, subject to utilization of the total STS-192 capacity.
- (8) Four interleaved concatenated STS-48c channels.

- (9) From one to three interleaved concatenated STS-48c channels, mixed with from forty eight to one hundred forty four STS-1 Channels, subject to utilization of the total STS-192 capacity.
- (10) From one to three interleaved concatenated STS-48c channels, mixed with from sixteen to forty eight STS-3c channels, subject to utilization of the total STS-192 capacity.
- (11) From one to three interleaved concatenated STS-48c channels, mixed with from four to twelve STS-12c channels, subject to utilization of the total STS-192 capacity.
- (12) From one to three interleaved concatenated STS-48c channels, mixed with from one to forty seven concatenated STS-3c channels, also mixed with from three to one hundred forty one STS-1 channels, subject to utilization of the total STS-192 capacity.
- (13) From one to three interleaved concatenated STS-48c channels, mixed with from one to eleven concatenated STS-12c channels, also mixed with from twelve to one hundred thirty two STS-1 channels, subject to utilization of the total STS-192 capacity.
- (14) From one to three interleaved concatenated STS-48c channels, mixed with from one to eleven concatenated STS-12c channels, also mixed with from four to forty four concatenated STS-3c channels, subject to utilization of the total STS-192 capacity.
- (15) From one to three interleaved concatenated STS-48c channels, mixed with from one to eleven concatenated STS-12c channels, also mixed with from three to one hundred twenty nine STS-1 channels, subject to utilization for the total STS-192 capacity.
- (16) A single concatenated STS-192c Channel.

32.2 Rate Conditions

For Pricing Plans beginning prior to November 25, 2019:

This section contains the specific conditions governing the rates and charges which may apply to OCN Point-to-Point Service⁽¹⁾. The rates and charges in effect at the time the OCN Point-to-Point Service is installed and accepted by the customer are the rates and charges which will be billed to the customer requesting the service. The rates and charges in effect at the time may not be the same as those rates and charges in effect at the time the customer requests the service.

If the Telephone Company initiates rate changes resulting in a decrease of rates for an existing OC-3, OC-12 or OC-48 service with a 1, 3, or 5 year⁽¹⁾ billing period, or for an existing OC-192 service with a 3 or 5 year⁽¹⁾ billing period, those rate changes will be passed along to the customer. Rate changes resulting in an increase of rates for an existing OC-3, OC-12 or OC-48 service with a 1, 3, or 5 year⁽¹⁾ billing period, or for an existing OC-192 service with a 3 or 5 year⁽¹⁾ billing period will not exceed the original rate for that selected billing period. Rate changes may occur as a result of F.C.C. action.

For Pricing Plans beginning on or after November 25, 2019:

New Pricing Plan customers will be required to pay the lower of (1) the guidebook Pricing Plan rate at the time of billing; or (2) 120% of the initial rate in the first year of the contract; 144% in the second year of the contract, and 173% in the third year of the contract.

The four basic rate categories for OCN Point-to-Point Service⁽¹⁾ are Local Distribution Channel, Interoffice Transport, Collocation Transport and Optional Features and Functions.

(A) Local Distribution Channel (LDC)

The Local Distribution Channel (LDC) (same as Channel Termination (CT)) rate category provides for the communications path between a customer designated premise and the serving wire center of that premise. LDCs are only offered without SBC provided and maintained terminal ADM equipment at the customers designated premises and will hand-off basic 2-fiber or 4-fiber optic cables, depending upon the feature (as ordered). One LDC is applied per customer designated premises at which the channel is terminated even if collocation exists.

OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192/OC-192c LDCs provide point-to-point optical interconnection between the Telephone Company Serving Wire Center (SWC) and the customer premises.

⁽¹⁾ Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.

(A) Local Distribution Channel (LDC) (Cont'd)

The customer is required to provide an ADM that is compatible with the Telephone Company central office ADM as is described in Technical Publication GR-253-CORE.

All LDCs comprising a channel must have the same terminating bit rate unless multiplexing is performed at a Telephone Company Hub location.

(B) Interoffice Transport

Interoffice Transport facilities comprised of Fixed and Per Mile rate elements, provide the transmission paths between Serving Wire Centers associated with two customer designated premises or between a Serving Wire Center associated with a customer premises and a Telephone Company Hub location. Four interoffice transport types are available.

OC-3/OC-3c LDCs are interconnected to OC-3/OC-3c transport.
OC-12/OC-12c LDCs are interconnected to OC-12/OC-12c transport.
OC-48/OC-48c LDCs are interconnected to OC-48/OC-48c transport.
OC-192/OC-192c LDCs are interconnected to OC-192/OC-192c transport.

In addition, interoffice transport can be connected between wire centers with Add/Drop multiplexing at a lower OC-N speed than the LDCs, if the transport is between a lower speed Add/Drop Function and:

- another lower speed Add/Drop Function;
- another lower speed Local Distribution Channel;
- a lower speed Dedicated Ring Port;

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

(C) Collocation Transport

Collocation Transport provides for the transmission facilities arrangement between a Telephone Company central office frame and a collocation frame located in the Telephone Company Central Office. There are two components of Collocation Transport.

(1) Inter/Intra Office Fixed

Inter/Intra office fixed rate element provides for the electronic equipment required to terminate a channel between two collocation arrangements located either in the same central office (intra) or in two separate central offices (inter).

(2) Inter Office Per Mile

The Per Mile charge provides for the electronic equipment and facilities necessary to provide the interoffice transport between two collocation arrangements.

The following types of collocation transport are:

OC-3/OC-3c
OC-12/OC-12c
OC-48/OC-48c
OC-192/OC-192c

In addition to the collocation transport charge, one EISCC charge, of the same speed, from Section 16.7.4 of Tariff F.C.C. No. 1, will apply per collocation arrangement.

(D) Optional Features and Functions

The following optional features and functions are available:

Central Office Features which consist of:

- Add/drop Multiplexing (ADM)
- Add/drop function (ADM function)

OC-N Network Survivability which consist of:

- 1+1 Protection
- 1+1 Protection with Cable Survivability
- 1+1 Protection with Route Survivability

Regenerators which consist of:

- OC-48
- OC-192

Major Optional Features and Functions which consist of:

- Connection Arrangements
 - Shared Network Arrangement

(1) Add/Drop Multiplexing

Add/Drop multiplexing is an arrangement in a Telephone Company central office that allows non-concatenated OC-3, OC-12, OC-48 or OC-192 channels operating at a terminating speed of 155.52 Mbps, 622.08 Mbps, 2488.32 Mbps or 9953.28 Mbps, respectively, to add/drop a lower speed channel by using this feature along with the add/drop function as stated in Section 32.2(D)(2). The mix of multiplexing signals cannot exceed the maximum bandwidth of the higher speed OCN circuit terminating on the Central Office multiplexer.

For example, OC-3 add/drop multiplexing at a Telephone Company wire center will provide the capability to support the full add/drop function capacity of OC-3 Service bandwidth with up to 3 DS3 add/drop functions or equivalently up to 3 groups of 28 DS1 add/drop functions.

At the time of ordering any of the following basic rate categories, the customer must provide configuration information for the entire multiplexing option at the time the order for service is placed. In addition, concatenated services OC-3, OC-12 or OC-48 cannot be ordered under the central office feature section as the Telephone Company cannot convert individual STS-1 signals to concatenated (non-channelized) channels.

OC-12 add/drop multiplexing at a Telephone Company wire center will provide the capability to support the full add/drop function capacity of OC-12 service bandwidth with up to 4 OC-3 add/drop functions or up to twelve DS3 add/drop functions or equivalent combinations of OC-3 and DS3 add/drop functions.

If asynchronous DS1 ports are required on a OC-12 OCN circuit, then the OC-3 add/drop multiplexing feature and associated DS1 add/drop function must be ordered in addition to the OC-12 add/drop multiplexing feature.

OC-48 add/drop multiplexing at a Telephone Company wire center will provide the capability to support the full add/drop function capacity of OC-48 service bandwidth with up to 4 OC-12 add/drop functions or up to forty-eight DS3 add/drop functions or equivalent combination of OC-3 and DS3 add/drop functions. If DS1's are required for the OC-12 then the preceding guidelines established can be followed.

OC-192 add/drop multiplexing at a Telephone Company wire center will provide the capability to support full add/drop function capacity of OC-192 service bandwidth. Up to four OC-48 add/drop functions, or up to 16 OC-12 add/drop functions, or up to 64 OC-3 add/drop functions or equivalent combinations of OC-48, OC-12 and OC-3 add/drop functions are supported.

(2) Add/Drop Function

The OC-3, OC-12, OC-48 and OC-192 are able to add or drop lower level signals as shown in the matrix following. The add/drop function is offered at a circuit level. For example, if a customer wants to drop one DS3 signal from an OC-12 service, they would pay one add/drop function charge for the DS3 and the initial OC-12 add/drop multiplexing charge.

An OC-3, OC-12, OC-48 and OC-192 is only able to add or drop the services that have been identified by payload content (mapping) within the bandwidth. DS1 mapped STS-1 signals are only able to connect to a DS1, and a DS3 mapped STS-1 signals are only able to connect to a DS3. If a change is required it may be accomplished by the customer's CPE or through the current asynchronous environment for multiplexing of DS3 and DS1 services stated in Section 7.2 of Tariff F.C.C. No. 1.

Once the options in (1) and (2) above are specified by the customer they cannot be used with OC-3, OC-12 or OC-48 configured by the customer to contain a single non-channelized (concatenated) STS-3C or STS-12C signal, respectively.

Ethernet over SONET (EoS) is supported by an Add/Drop function. The quantities allowed will depend upon the VT or STS bandwidth assigned over the port.

ADD/DROP Function

	DS1	DS3	OC-3	OC-12	OC-48	1000 Base LX
OC-192	No	No	Yes	Yes	Yes	Yes
OC-48	No	Yes	Yes	Yes	N/A	Yes
OC-12	No	Yes	Yes	N/A	N/A	Yes
OC-3	Yes	Yes	N/A	N/A	N/A	Yes

(3) OCN Point-to-Point Network Survivability

There are 4 components of OCN Network Survivability:

- (a) 1+1 Protection
- (b) 1+1 Protection with Cable Survivability
- (c) 1+1 Protection with Route Survivability
- (d) 1+1 Protection with Diversity

(a) 1+1 Protection

This option provides two identical fiber pairs that are placed in the same cable and follows the same route. If the working pair fails, traffic shifts to the protect fiber pair. This option does not protect against a fiber cable cut.

The protected OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192/OC-192c Services are offered with four fibers in the same cable and the protection card is activated when this option is ordered. This will allow customers to order protection if their CPE can accommodate it.

(b) 1+1 Protection with Cable Survivability⁽¹⁾

With this option, the working fiber pairs and the protect fiber pairs are located in two separate cables within the same conduit. If the working fiber pair cable experiences damages or a fiber cut, traffic will switch to the protect fiber pair in a separate cable. These cables are located in the same conduit, if the conduit is cut, there is no protection.

This option will provide 1+1 protection and additional loop survivability with the working fiber pair and protect fiber pair placed in separate cables within the same conduit.

(c) 1+1 Protection with Route Survivability⁽¹⁾

This option will provide 1+1 protection and offer additional protection from fiber cable cuts by routing the working fiber pair via the primary route and the protected fiber pair via a physically diverse alternate route.

⁽¹⁾ Not available for OCN service originating and terminating within a Telephone Company location.

The protected fiber will be charged on a distance sensitive basis, in addition to the protection optical charge and will be based on quarter route miles, from the customer premises to the serving wire center.

This is the only option that will assure 100 percent availability of the service. Any service interruption will result in a credit equal to one month's bill for the circuit involved. If the interruption occurs on a Local Distribution Channel without this option, normal terms and conditions for out of service credits as stated in Part 2, Section 2 of this Guidebook, will apply. An interruption period will start when an inoperative service is reported to the Telephone Company and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element.

All other terms and conditions for Credit Allowances as stated in Part 2, Section 2 of this Guidebook, will apply.

Prior to confirming an order for service, the Telephone Company will provide a proposed route diagram to the customer. The diagram will include the number of quarter route miles and method used to support the number needed to provide the alternate route. In order to avoid compromising Route Survivability information, the Telephone Company will provide this information only to the ordering customer.

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

⁽¹⁾OCN Point-to-Point Network Survivability is available on OC-3/OC-3c, OC-12/OC-12c and OC-48/OC-48c Services only.

(d) Diversity

This option will provide end-to-end diversity from A-Z for the second like service. It requires a charge for mileage on a "per Quarter Route Mile" basis, for each customer premises or Local Distribution Channel (LDC), only when both circuits terminate at the same customer premises. The standard OCN PTP service is provided without protection, but it is still an option with Diversity. 1+1 Protection is defined above and rates will apply as stated in Diversity Sections, 32.3(A) (4) (g)-(OC-3), 32.3(B) (4) (g)-(OC-12), 32.3(C) (4) (h)-(OC-48), and 32.3(D) (4) (g)-(OC-192). For the inter-office portion, the Diversity rate will cover any additional air-line mileage between serving wire centers.

This is the only option that will assure 100% availability from end-to-end of the service. Any service interruption of both services at the same time will result in a credit of one month's bill for the second circuit. If the interruption occurs on a section of the service where commonality has been identified to the customer, normal terms and conditions for out of service credits, as stated in Part 2, Section 2 of this Guidebook, will apply. An interruption period will start when an inoperative service is reported to the Telephone Company, and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element.

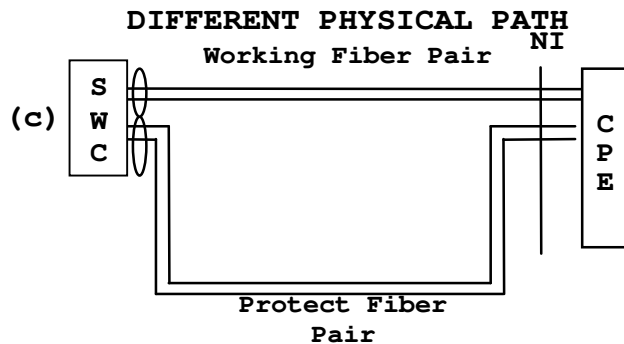
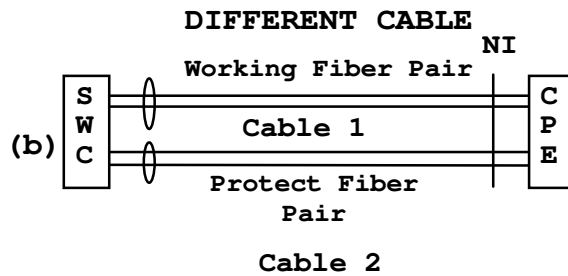
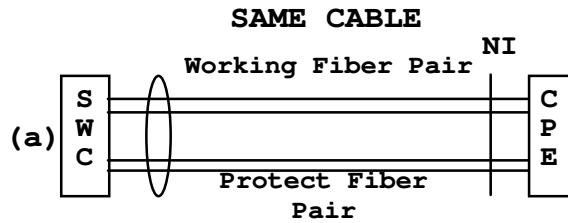
All other terms and conditions for Credit Allowances, as stated in Part 2, Section 2 of this Guidebook, will apply.

Prior to confirming an order for service, the Telephone Company will provide a proposed route diagram to the customer. The diagram will include the number of quarter route miles and method used to support the number needed to provide the alternate route. In order to avoid compromising Route Survivability information, the Telephone Company will provide this information only to the ordering customer.

Installation of the Diversity option will not begin until the customer has accepted the proposed routing by the Telephone Company.

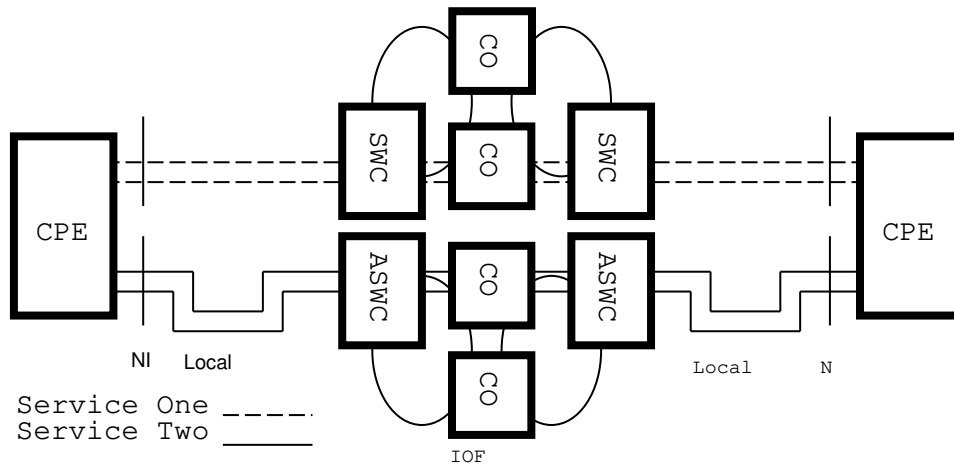
⁽¹⁾ OCN Point-to-Point Network Survivability is available on OC-3/OC-3c, OC-12/OC-12c and OC-48/OC-48c Services only.

The following diagrams provide an example of (a), (b), (c) and (d) above:



⁽¹⁾ OCN Point-to-Point Network Survivability is available on OC-3/OC-3c, OC-12/OC-12c and OC-48/OC-48c Services only.

OC-N PTP Survivability with Diversity (Two Circuits Diverse E-E, same locations)



(4) Point-to-Point OC-48 and OC-192 Regenerator

Regenerators provide essential detection and retransmission of SONET Optical 2488.32 Mbps and 9953.28 Mbps signals between customer premises. Regenerators will only be provided as required by the Telephone Company when actual fiber facility distances between customer designated premises and/or central office locations exceed design limits (typically 25 to 30 miles). Regenerators will be located exclusively in Telephone Company central offices.

(5) Connection Arrangement(a) Shared Network Arrangement⁽¹⁾

- A Shared Network Arrangement is a service offering that enables a customer ("Service User") to connect subtending services to the multiplexed OC-3, OC-12 or OC-48 service of another customer (the "Host Subscriber"), with the Telephone Company maintaining separate billing for each. Each customer will be billed for those rate elements associated with their own portion of the service configuration. Under no circumstances will the rates or charges for individual rate elements be split. This offering is limited to service configurations where a Service User obtains either subtending DS3 or DS1 from a Host's multiplexed OC-3 service or an OC-3 service from a Host's multiplexed OC-12 service or an OC-12 service from a Hosts' multiplexed OC-48 service.
- Under the Shared Network Arrangement, the Telephone Company may share record information with the Host subscriber pertaining to the services of other users of the shared network. Such disclosure will be under the sole discretion of the Telephone Company and is necessary to perform billing reconciliation and/or other functions required in connection with maintaining account records.
- A nonrecurring charge, only, will apply to the Shared Network Arrangement.

(6) Network Channel Interfaces

The network channel interfaces define the bit rates that are available for OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192/OC-192c services operating at speeds of 155.52 Mbps, 622.08 Mbps, 2488.32 Mbps and 9953.28 Mbps. Network Channel interfaces and codes are described in Part 2, Section 7 of this Guidebook.

(1) Effective 05/26/06, this condition is limited to existing customers. For new customers purchasing Shared Network Arrangement, terms and conditions set forth in Part 2, Section 5 of this Guidebook, will apply.

(E) Monthly Extension Rates⁽¹⁾

At the expiration of the TPP term and if the customer wishes to continue OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c or OC-192/OC-192c, the customer may select a new TPP⁽²⁾ at the prevailing TPP rate.

If a customer does not wish to renew the TPP at the expiration of the term, the Monthly Extension Rates will apply until the customer cancels or renews the service with a new TPP term. Monthly Extension Rates are not available as an individual TPP and are to be used as a default applied at the end of a regular 1 year (12 month), 3 year (36 month) and 5 year (60 month)⁽²⁾ TPP.

(F) Nonrecurring Charges*

One-time charges that apply for a specific work activity, e.g., installation, rearrangements, moves, etc., as described in Part 2, Section 7 of this Guidebook.

(G) Minimum Periods

The Minimum Period for OC-3, OC-12 and OC-48 OCN Point-to-Point Service is one year and the minimum period for OC-192 OCN Point-to-Point Service is three years. In the event OCN Point-to-Point Service is terminated prior to completion of the minimum period, termination liabilities as described in Section 32.2(I) will apply.

* For Services ordered under MVP, refer to Section 22.3(E) (5) of Tariff F.C.C. No. 1.

⁽¹⁾ All term plans for OCN Point-to-Point Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after January 22, 2016.

⁽²⁾ Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.

(H) Term Pricing Plans (TPP) ^{(1) (2) (3)}

(1) General Description

Term Pricing Plans (TPP) are available on Local Distribution Channel, Interoffice Transport, Collocation Transport and Add/Drop Multiplexing rate elements. The TPP stabilizes rates for OCN Point-to-Point Service for the specified period of time. The following TPPs are available:

- One Year (12 Month) TPP - OC-3, OC-12 and OC-48,
- Three Year (36 Month) TPP - OC-3, OC-12, OC-48 and OC-192, or
- Five Year (60 Month) ⁽²⁾ TPP - OC-3, OC-12, OC-48 and OC-192.

(2) Modifications

When additional like-speed OCN Point-to-Point Service circuits are purchased, the customer may include the additional circuits in an existing TPP if:

- The customer renegotiates their TPP for a period of time equal to or greater than the time remaining on the existing TPP;
- The circuits are the same speed; and
- The circuits are located between the same customer designated premises.

(3) Renewals

At the end of a TPP period, the customer must select one of the following options within one month prior to the expiration date:

- a. Renew the service for a one, three or five year ⁽²⁾ TPP as provided in this Guidebook;
- b. Elect to disconnect the service upon expiration of the billing period; or
- c. Continue the service on a monthly basis at the current monthly extension rates.

All services under an existing TPP that are not renewed within the period stated above will revert to Option (3)c above and be billed at the current monthly extension rates.

⁽¹⁾ All term plans for OCN Point-to-Point Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after January 22, 2016.

⁽²⁾ Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.

⁽³⁾ For Pricing Plans effective on or after November 25, 2019, see terms on page 8, sect 32.2.

(4) Conversions

If there is at least one month remaining on an existing 1 or 3 year OCN Point-to-Point TPP, the customer may convert the service to a higher term OCN Point-to-Point TPP⁽¹⁾ without termination liability and, at the time of the access order to convert, retain the service for the period remaining on the higher term OCN Point-to-Point TPP. No retroactive OCN Point-to-Point TPP discounts will apply prior to the order date.

For example; a customer with an existing 3 Year OCN Point-to-Point TPP with 11 months remaining elects to convert to a 5 Year⁽¹⁾ OCN Point-to-Point TPP. At the time of the order, the customer will begin paying the 5 year⁽¹⁾ TPP rate for the remaining period of 2 years and 11 months (35 months) on the new TPP.

(5) Transitioning from Other Special Access Services to OCN Point-to-Point

The customer may, at any time, move other existing Telephone Company Special Access Services to an OCN Point-to-Point service provided the following conditions are met for the new OCN Point-to-Point circuit being ordered.

⁽¹⁾ Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.

(5) Transitioning from Other Special Access Services to OCN
Point-to-Point (Cont'd)

The new OCN Point-to-Point circuit must:

- (a) Be the same speed and configuration as the existing service being disconnected.
- (b) Be located between the same two customer designated premises or between the same customer designated premises and the Serving Wire Center.
- (c) Have a minimum billing period that is greater or equal to the remaining billing period revenue for the existing service.
- (d) Represent equal or greater of the total minimum billing period revenue as the remaining billing period revenue of the existing service.

(I) Termination Liability⁽¹⁾

Customer requesting termination of service prior to the expiration date of the OCN Point-to-Point TPP will be liable for a termination charge. The termination charge for all TPP terms with an Optical Interface, will be calculated as follows:

Billing Period Termination Percentage

1, 3, or 5 years ⁽²⁾	50%
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The termination liability is calculated as follows:

(Monthly recurring X rate)	Months remaining X in billing)	(Termination percentage)
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Example:

An OCN Point-to-Point customer with a \$20,000 monthly rate terminates service after 2 years with 1 year (12 months) remaining in a 3 year TPP. The termination liability would be calculated as:

$\$20,000 \times 12 \times .50 = \$120,000$ Termination Liability

A termination charge will not apply under the following conditions and circumstances:

1. Moves as set forth under "Moves" without decreasing number of OCN PTP circuits
2. Modifications of services as described in the Guidebook
3. Conversions to other special access service if
 - a. service is same or higher
 - b. billing period same or greater
 - c. billing period revenue for the special access service is greater than or equal to the OCN PTP billing period revenue.

(J) Moves

Moves involve a change in the physical location of one of the following:

- Service rearrangement;
- Point of Termination with in the same customer premises;
or
- Customer's premises.

Move charges are dependent upon the type of move requested by the customer.

(1) Service Rearrangement

Service Rearrangements are changes to existing (installed) services which do not result in either (1) a change in the minimum period requirements or (2) a change in the physical location of the point of termination at a customer designated premises as described in Part 2, Section 7 of this Guidebook.

⁽¹⁾ All term plans for OCN Point-to-Point Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after January 22, 2016.

⁽²⁾ Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.

(2) Moves of the Point of Termination Within the Same Customer Premises

When the move of the Point of Termination is to a new location within the same customer premises, the move will be treated as an extension of access service facilities as described in Part 2, Section 7 of this Guidebook.

(3) Moves of a Customer Premises

Moves to a different customer premises will be treated as a discontinuance and start of service as described in Part 2, Section 7 of this Guidebook.

(K) Mileage Measurement

The application of distance sensitive rates requires the determination of the airline distance between a serving wire center (SWC) and an end office or two or more serving wire center (SWC) locations as described in Part 2, Section 7 of this Guidebook.

(L) Modification of Access Service

The customer may request a modification of an access order at any time prior to notification by the Telephone Company that service is available for the customer's use. The Telephone Company will make every effort to accommodate a requested modification when it is able to do so with the normal work force assigned to complete such an order within normal business hours. If the modification cannot be made with the normal work force during normal business hours, the Telephone Company will notify the customer. If the customer still desires the access order modification, the Telephone Company will schedule a new service date. All charges for access order modifications will apply on a per order, per occurrence basis as described in Part 2, Section 5 of this Guidebook.

(M) Shared Use

Shared use occurs when Special Access Service and Switched Access Service are provided over the same Wideband Analog or DS1 or DS3 facilities or SONET based services through a common interface. The facility will be ordered, provided and rated as Special Access Service (e.g., Local Distribution Channel, DS3 Service Packages, DS3 Service Channels, Channel Mileage Terminations and Channel Mileage, as appropriate, and Multiplexing).

The nonrecurring charge that applies when the Shared Use Facility is installed will be the nonrecurring charge associated with the installation of the appropriate Special Access Wideband Analog or DS1 or DS3 facility or SONET based service.

Individual service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the Shared Use Facility. Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for providing Switched Access Transport Service from the office where multiplexing occurs to either an end office or an access tandem.

(N) Jointly Provided Service

Jointly Provided Service is also referred to as "meet-point-billing" arrangements. The service consists of one end of an OCN Point-to-Point circuit located in one exchange telephone company operating territory and the other end of service located in another exchange telephone company operating territory. When Access Service, is jointly provided, the exchange telephone companies involved will agree upon a billing, design and ordering arrangement which is consistent with the provisions contained in the Ordering and Billing Standards section. Prior to implementation of, or changes to any billing arrangements, the exchange telephone companies involved will give the affected customers 30 days notice.

The type of billing arrangement utilized for jointly provided access service is dependent upon the type of access service provided. Meet Point Billing allows each involved exchange telephone company to provide service and bill for the portion of the access service that is rendered under its own tariff.

At the time an order is placed, the customer will be notified of the arrangement which will apply and any pertinent information pertaining thereto. For example, the customer will be notified as to the entity responsible for receipt of payment, answers to billing inquiries, adjustments to bills, etc.

(O) Ordering Options and Conditions

The ordering options and conditions sets forth the order related charges for ordering Access Service as described in Part 2, Section 5 of this Guidebook.

(P) Upgrade to OCN Point-to-Point from lower speeds

Customers with one, three or five year OCN Point-to-Point TPPs (or existing Broadband Circuit Service Term Pricing Plans as shown in Section 20 of Tariff F.C.C. No. 1), may at any time upgrade to OCN Point-to-Point service (e.g., OC-12 to OC-48) without incurring the Termination Liability charge, providing the following criteria are met:

- The customer subscribes to a Term Pricing Plan period that is equal to, or greater than 12 months;
- The expiration date for the new Term Pricing Plan period is beyond the end of the original Term Pricing Plan period;
- No lapse in service occurs;
- 100% of any waived or unamortized nonrecurring charges will apply, when applicable;
- The monthly rates for the new service(s) will be those rates in effect at the time the new service(s) is/are installed;
- The new service is provided between the same customer locations and with the same customer of record as the disconnected service; and
- The billed monthly recurring revenue for the new service is equal to or greater than the billed monthly recurring revenue remaining in the service being converted.

(A) OC-3/OC-3c(1) Local Distribution Channel-Per Point of
Termination

<u>USOC</u>	<u>1 Year</u> ^{(1) (3)}	<u>3 year</u> ^{(1) (3)}	<u>5 year</u> ^{(1) (2)}	<u>Mo. Ext.</u>
TMECS	\$15,844.82	\$12,826.76	\$1,300.00	\$30,647.70

(2) Interoffice Transport

	<u>USOC</u>	<u>1 Year</u> ^{(1) (3)}	<u>3 year</u> ^{(1) (3)}	<u>5 year</u> ^{(1) (2)}	<u>Mo. Ext.</u>
-Mileage					
-Fixed	1L5XX	\$8,299.67	\$7,356.54	\$886.00	\$26,937.68
-Per Mile	1L5XX	\$1,961.73	\$1,961.73	\$220.00	\$4,714.10

(3) Collocation Transport-Transport Facilities between Collocation Arrangements

	<u>USOC</u>	<u>1 Year</u> ^{(1) (3)}	<u>3 year</u> ^{(1) (3)}	<u>5 year</u> ^{(1) (2)}	<u>Mo. Ext.</u>
-Fixed	1H48S	\$2,070.00	\$1,840.00	\$1,400.00	\$2,640.00
-Per Mile	1H48S	\$299.00	\$299.00	\$220.00	\$462.00

(4) Optional Features and Functions

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

<u>USOC</u>	<u>1 Year</u> ^{(1) (3)}	<u>3 year</u> ^{(1) (3)}	<u>5 year</u> ^{(1) (2)}	<u>Mo. Ext.</u>
MPECX	\$11,317.73	\$9,054.18	\$950.00	\$20,203.29

(b) Add/Drop Function-Per DS-3

<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>
MXJBX	\$1,836.68	\$0

* Concatenated services cannot be multiplexed.

⁽¹⁾ All term plans for OCN Point-to-Point Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after January 22, 2016.

⁽²⁾ Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.

⁽³⁾ For Pricing Plans effective on or after November 25, 2019, see terms on page 8, sect 32.2.

	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>
(4) <u>Optional Features and Functions</u> (Cont'd)			
(b) <u>Add/Drop Function</u> (Cont'd)			
-Per DS1	MXJAX	\$673.46	\$0
-Per 1000 Base LX	MX4LX	\$500.00	\$0
(c) <u>1+1 Protection</u> -Per OC-3/OC-3c Customer Premises	P8T	\$180.00	\$0
(d) <u>1+1 Protection with Cable Survivability⁽¹⁾</u> -Per OC-3/OC-3c Customer Premises	P3S	\$180.00	\$500.00
(e) <u>1+1 Protection with Route Survivability⁽¹⁾</u> -Per OC-3/OC-3c Customer Premises	P8T	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)	
-Per Quarter Route Mile	S2DXY	\$50.00	\$0

⁽¹⁾ Not available for OCN service originating and terminating within a Telephone Company location.

	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>	
(4) <u>Optional Features and Functions</u> (Cont'd)				
(f) <u>Shared Network Arrangement</u> -Processing Charge per Service Order	NRBOP	\$0	\$30.00	
(g) Diversity ⁽¹⁾ -Per Quarter Route Mile	S2DXY	\$50.00	\$0	
-Per OC-3/OC-3c	CPAPA	\$200.00	\$0	
(5) <u>Moves (OC-3/OC-3c)</u>				
(a) <u>Service Rearrangement</u>				
See Part 2, Section 7 of this Guidebook, for rates and charges.				(T)
(b) <u>Moves of Point of Termination</u>				
See Part 2, Section 13 of this Guidebook, for rates and charges.				(T)
(c) <u>Moving Customer Premises</u>				
See Part 2, Section 7 of this Guidebook, for rates and charges.				(T)

⁽¹⁾ The Per Quarter Route Mile is required for one or both ends of the second service when both services terminate at the same customer premises.

(B) OC-12/OC-12c(1) Local Distribution Channel-Per Point of
Termination

<u>USOC</u>	<u>1 Year</u> ^{(1) (3)}	<u>3 year</u> ^{(1) (3)}	<u>5 year</u> ⁽¹⁾	<u>Mo. Ext.</u>
TMECS	\$34,405.88	\$30,180.60	\$3,000.00	\$70,711.43

(2) Interoffice Transport

-Mileage	<u>USOC</u>	<u>1 Year</u> ^{(1) (3)}	<u>3 year</u> ^{(1) (3)}	<u>5 year</u> ^{(1) (2)}	<u>Mo. Ext.</u>
-Fixed	1L5XX	\$25,804.43	\$22,069.58	\$2,250.00	\$55,222.20
-Per Mile	1L5XX	\$1,863.66	\$1,961.73	\$220.00	\$4,714.10

(3) Collocation Transport-Transport Facilities between Collocation Arrangements

	<u>USOC</u>	<u>1 Year</u> ^{(1) (3)}	<u>3 year</u> ^{(1) (3)}	<u>5 year</u> ^{(1) (2)}	<u>Mo. Ext.</u>
-Fixed	1H48S	\$5,980.00	\$5,175.00	\$4,000.00	\$7,392.00
-Per Mile	1H48S	\$299.00	\$483.00	\$400.00	\$792.00

(4) Optional Features and Functions

(a) OC-12 Add/Drop Multiplexing-Per Arrangement*

<u>USOC</u>	<u>1 Year</u> ^{(1) (3)}	<u>3 year</u> ^{(1) (3)}	<u>5 year</u> ^{(1) (2)}	<u>Mo. Ext.</u>
MPEDX	\$24,144.48	\$21,126.42	\$2,100.00	\$43,773.74

(b) Add/Drop Function-Per OC-3

<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>
MXJCX	\$3,061.13	\$0

* Concatenated services cannot be multiplexed.

⁽¹⁾ All term plans for OCN Point-to-Point Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after January 22, 2016.

⁽²⁾ Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.

⁽³⁾ For Pricing Plans effective on or after November 25, 2019, see terms on page 8, sect 32.2.

	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charges</u>
(4) <u>Optional Features and Functions</u> (Cont'd)			
(b) <u>Add/Drop Function</u> (Cont'd)			
-Per DS3	MXJBX	\$1,836.68	\$0
-Per 1000 Base LX	MX4LX	\$500.00	\$0
(c) <u>1+1 Protection</u> -Per OC-12/OC-12c Customer Premises	P8T	\$260.00	\$0
(d) <u>1+1 Protection with Cable Survivability⁽¹⁾</u> -Per OC-12/OC-12c Customer Premises	P3S	\$260.00	\$600.00
(e) <u>1+1 Protection with Route Survivability⁽¹⁾</u> -Per OC-12/OC-12c Customer Premises	P8T	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)	
-Per Quarter Route Mile	S2DXY	\$100.00	\$0

⁽¹⁾ Not available for OCN service originating and terminating within a Telephone Company location.

	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>
(4) <u>Optional Features and Functions</u> (Cont'd)			
(f) <u>Shared Network Arrangement</u> -Processing Charge per Service Order	NRBOP	\$0	\$30.00
(g) Diversity ⁽¹⁾ -Per Quarter Route Mile	S2DXY	\$100.00	\$0
-Per OC-12/OC-12c	CPAPB	\$300.00	\$0

(5) Moves (OC-12/OC-12c)(a) Service Rearrangements

See Part 2, Section 7 of this Guidebook, for rates and charges.

(b) Moves of Point of Termination

See Part 2, Section 13 of this Guidebook, for rates and charges.

(c) Moving Customer Premises

See Part 2, Section 7 of this Guidebook, for rates and charges.

⁽¹⁾ The Per Quarter Route Mile is required for one or both ends of the second service when both services terminate at the same customer premises.

(C) OC-48/OC-48c(1) Local Distribution Channel-Per Point of
Termination

<u>USOC</u>	<u>1 Year</u> ^{(1) (3)}	<u>3 year</u> ^{(1) (3)}	<u>5 year</u> ^{(1) (2)}	<u>Mo. Ext.</u>
TMECS	\$81,714.02	\$73,942.47	\$7,000.00	\$164,993.30

(2) Interoffice Transport

	<u>USOC</u>	<u>1 Year</u> ^{(1) (3)}	<u>3 year</u> ^{(1) (3)}	<u>5 year</u> ^{(1) (2)}	<u>Mo. Ext.</u>
-Mileage					
-Fixed	1L5XX	\$48,024.89	\$42,441.48	\$4,500.00	\$106,073.24
-Per Mile	1L5XX	\$2,150.37	\$1,961.73	\$220.00	\$4,714.10

(3) Collocation Transport-Transport Facilities between Collocation Arrangements

	<u>USOC</u>	<u>1 Year</u> ^{(1) (3)}	<u>3 year</u> ^{(1) (3)}	<u>5 year</u> ^{(1) (2)}	<u>Mo. Ext.</u>
-Fixed	1H48S	\$14,950.00	\$13,455.00	\$10,400.00	\$19,140.00
-Per Mile	1H48S	\$345.00	\$598.00	\$440.00	\$858.00

(4) Optional Features and Functions

(a) OC-48 Add/Drop Multiplexing-Per Arrangement*

<u>USOC</u>	<u>1 Year</u> ^{(1) (3)}	<u>3 year</u> ^{(1) (3)}	<u>5 year</u> ^{(1) (2)}	<u>Mo. Ext.</u>
MXRFX	\$41,875.59	\$34,896.33	\$3,700.00	\$78,058.08

(b) Add/Drop Function-Per OC-12

<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>
MXJEX	\$7,652.75	\$0

* Concatenated services cannot be multiplexed.

⁽¹⁾ All term plans for OCN Point-to-Point Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after January 22, 2016.

⁽²⁾ Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.

⁽³⁾ For Pricing Plans effective on or after November 25, 2019, see terms on page 8, sect 32.2.

	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>
(4) <u>Optional Features and Functions</u> (Cont'd)			
(b) <u>Add/Drop Function</u> (Cont'd)			
-Per OC-3	MXJCX	\$3,061.13	\$0
-Per DS3	MXJBX	\$1,836.68	\$0
-Per 1000 Base LX	MX4LX	\$500.00	\$0
(c) <u>1+1 Protection</u> -Per OC-48/OC-48c Customer Premises	P8T	\$1,410.00	\$0
(d) <u>1+1 Protection with Cable Survivability⁽¹⁾</u> -Per OC-48/OC-48c Customer Premises	P3S	\$1,410.00	\$700.00
(e) <u>1+1 Protection with Route Survivability⁽¹⁾</u> -Per OC-48/OC-48c Customer Premises	P8T	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)	
-Per Quarter Route Mile	S2DXY	\$125.00	\$0

⁽¹⁾ Not available for OCN service originating and terminating within a Telephone Company location.

	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>
(4) <u>Optional Features and Functions</u> (Cont'd)			
(f) <u>Point- to-Point OC-48 Regenerator</u> -each	RGY48	\$5,500.00	\$0
(g) <u>Shared Network Arrangement</u> -Processing Charge per Service Order	NRBOP	\$0	\$30.00
(h) <u>Diversity⁽¹⁾</u> -Per Quarter Route Mile	S2DXY	\$125.00	\$0
-Per OC-48/OC-48c	CPAPC	\$700.00	\$0
(5) <u>Moves (OC-48/OC-48c)</u>			
(a) <u>Service Rearrangement</u>			
See Part 2, Section 7 of this Guidebook, for rates and charges.			
(b) <u>Moves of Point of Termination</u>			
See Part 2, Section 13 of this Guidebook, for rates and charges.			
(c) <u>Moving Customer Premises</u>			
See Part 2, Section 7 of this Guidebook, for rates and charges.			

⁽¹⁾ The Per Quarter Route Mile is required for one or both ends of the second service when both services terminate at the same customer premises.

(D) <u>OC-192/OC-192c</u>		<u>USOC</u>	<u>3 year</u> ^{(1) (3)}	<u>5 year</u> ^{(1) (2)}	<u>Mo. Ext.</u>
(1)	<u>Local Distribution Channel</u> -Per Point of Termination	TMECS	\$221,827.41	\$21,000.00	\$470,706.51
(2)	<u>Interoffice Transport</u> -Mileage -Fixed	1L5XX	\$127,324.43	\$13,500.00	\$318,207.47
	-Per Mile	1L5XX	\$2,716.25	\$300.00	\$6,060.96
(3)	<u>Collocation Transport</u> -Transport Facilities between Collocation Arrangements -Fixed	1H48S	\$19,406.25	\$13,500.00	\$31,185.60
	-Per Mile	1H48S	\$414.00	\$300.00	\$594.00
(4)	<u>Optional Features and Functions</u> (a) OC-192 Add/Drop Multiplexing* -Per Arrangement	MXRGX	\$90,541.80	\$9,600.00	\$205,705.98
	(b) Add/Drop Function -Per OC-48	USOC MXJFX	<u>Monthly</u> \$22,039.95	<u>Nonrecurring Charge</u> \$0	

*Concatenated services cannot be multiplexed.

- (1) All term plans for OCN Point-to-Point Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established or renewed after January 22, 2016.
- (2) Effective on August 21, 2018, AT&T will no longer offer term plans longer than 36 months, including any renewals, extensions or conversions of existing term commitments.
- (3) For Pricing Plans effective on or after November 25, 2019, see terms on page 8, sect 32.2.

	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>
(4) <u>Optional Features and Functions</u> (Cont'd)			
(b) <u>Add/Drop Function</u> (Cont'd)			
-Per OC-12	MXJEX	\$7,652.75	\$0
-Per OC-3	MXJCX	\$3,061.13	\$0
-Per 1000 Base LX	MX4LX	\$500.00	\$0
(c) <u>1+1 Protection</u>			
-Per OC-192/OC-192c Customer Premises	P8T	\$2,700.00	\$0
(d) <u>1+1 Protection with Cable Survivability</u> ⁽¹⁾			
-Per OC-192/OC-192c Customer Premises	P3S	\$2,700.00	\$800.00
(e) <u>1+1 Protection with Route Survivability</u> ⁽¹⁾			
-Per OC-192/OC-192c Customer Premises	P8T	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)	
-Per Quarter Route Mile	S2DXY	\$150.00	\$0
(f) <u>Point-to-Point OC-192 Regenerator</u>			
-each	RGY	\$11,000.00	\$0
(g) <u>Diversity</u> ⁽²⁾			
-Per Quarter Route Mile	S2DXY	\$150.00	\$0
-Per OC-192/OC-192c	CPAPD	\$1,200.00	\$0

⁽¹⁾ Not available for OCN service originating and terminating within a Telephone Company location.

⁽²⁾ The Per Quarter Route Mile is required for one or both ends of the second service when both services terminate at the same customer premises.

(5) Moves (OC-192/OC-192c)(a) Service Rearrangement

See Part 2, Section 7 of this Guidebook, for rates and charges.

(b) Moves of Point of Termination

See Part 2, Section 13 of this Guidebook, for rates and charges.

(c) Moving Customer Premises

See Part 2, Section 7 of this Guidebook, for rates and charges.

(E) Installation and Rearrangement Charges

	Administrative Charge, per Order	Design and Central Office Connection Charge, per circuit	Customer Connection, Charge, per termination
USOC	ORCMX	NRMCK	NRBBL
OC-3/OC-3c	\$60.00	\$ 375.00	\$450.00
OC-12/OC-12c	60.00	375.00	450.00
OC-48/OC-48c	60.00	500.00	600.00
OC-192/OC-192c	60.00	2,250.00	600.00
Ethernet 100 Base	60.00		
Ethernet 1000 Base	60.00		

Section not in use.

Section not in use.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) ^{/2/}

35.1 Service Description

A. General Description

OPT-E-MAN Service offers networking capabilities utilizing Optical Ethernet, which is the use of Ethernet LAN packets running over optical fiber within or as access to a service provider's network. OPT-E-MAN provides an integrated service consisting of fiber and/or copper transport (at the Telephone Company's discretion) connected to an Ethernet device capable of switching. OPT-E-MAN provides dedicated bandwidth ranging from 2 Mbps up to 1 Gbps. Customers may connect to the service using a router, bridge or switch. Customers that are connecting to OPT-E-MAN service in the Telephone Company's Central Office must follow the terms and conditions as stated in Section 16 of Tariff F.C.C. No. 1.

OPT-E-MAN supports a logical point-to-point, point to multi-point or multi-point to multi-point configuration and enables the customer to connect two or more locations together when utilizing a point-to-point or point-to-multipoint configuration, and a minimum of three or more locations when utilizing a multipoint-to-multipoint configuration^{/1/} within the same LATA or Metropolitan Area Network (MAN) as if they were segments on the same LAN. OPT-E-MAN Service supports full duplex communication.

Once the facilities necessary to provide OPT-E-MAN, as specified in this section, are deployed in other LATAs, customers may purchase OPT-E-MAN in those LATAs. To the extent a customer would like to purchase OPT-E-MAN Service in any LATA where the necessary facilities to provide OPT-E-MAN Service have not been deployed, the customer can request special construction for this service in accordance with this Guidebook.

OPT-E-MAN Service provides the customer the capability to connect to the Telephone Company's network via one of the following standard network interfaces as described in Section 35.1.B and 35.1.D:

- 10/100 Mbps Base T
- 1 Gbps Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX)

/1/ This condition only applies to service ordered or purchased after 08/31/07.

/2/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/2/}

35.1 Service Description (Cont'd)

A. General Description (Cont'd)

OPT-E-MAN includes the port and connection to the Ethernet network, Committed Information Rate (CIR) (Bandwidth assessed per speed increments ranging from 2 Mbps to 1 Gbps), and Ethernet Virtual Connections (EVC) and is offered in three grades of service: Bronze, Silver and a Best Effort service.

Customized Switched Metro Ethernet Service (CSME)^{/1/, /3/}, as described in Section 35.3, is a sell and deploy product which provides a switched metropolitan Ethernet network and is available in 10 Mbps, 100 Mbps or 1 Gbps connections. A CSME Best Effort port cannot be combined with an OPT-E-MAN Best Effort, Bronze, and/or Silver port in the same network. Service Level Agreements (SLAs) are not available on CSME.

/1/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

/2/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

/3/ The Company currently plans to discontinue this service on or after October 30, 2021.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

A. General Description (Cont'd)

OPT-E-MAN will be offered as follows:

Basic Connection

The OPT-E-MAN Basic Connection provides the customer with a switched, logical point-to-point connection and point to multipoint connection between the customer locations using a physical connection to the Ethernet network, and virtual connections through the Ethernet network.

Basic Plus Connection

The OPT-E-MAN Basic Plus Connection provides the customer with a switched, logical point-to-point, point to multi-point, and/or multi-point to multi-point connection between the customer locations using a physical connection to the Ethernet network, and virtual connections through the Ethernet network.

Committed Information Rate (CIR)

The customer must select CIR usage and at least one EVC to enable service.

CIR usage will have the following Grades of Service selection:

Best Effort

Intended for non-critical data applications with more tolerance for delay and/or data applications that are lower in priority, i.e. LAN traffic. There are no service parameters associated with this Grade of Service.

Best Effort Grade of Service is intended for non-critical applications. Standard Telephone Company procedures will be used to provision and maintain the service. No specific performance assurances are provided in connection with the Best Effort Grade of Service.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

A. General Description (Cont'd)

Committed Information Rate (CIR) (Cont'd)

CIR usage will have the following Grades of Service selection:
(Cont'd)

Bronze

Intended for data applications with more tolerance for delay and/or data applications that are lower in priority, i.e. LAN traffic. Service parameters associated with this Grade of Service are PDR and Latency. Latency is defined as the amount of time necessary for a typical frame to traverse the Ethernet network. Latency is measured by averaging sample measurements taken during a calendar month from Network Terminating Equipment (NTE) to NTE to which the customer ports are attached and is measured when the network is available for use by the customer.

Silver

Supports applications that require minimal loss and low latency variation (jitter). The service parameters associated with this Grade of Service are PDR, Latency and Jitter. Jitter is calculated as the delay variance of the packets transported across the network or the delta between two consecutive packets and is measured when the network is available for use by the customer.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

B. Service Provisioning

1. Manner of Provisioning

- a. Access into the Telephone Company's network must conform to industry standards and specifications as described in technical publications TP-76200MP and SBC-TP-76412-000.
- b. The Telephone Company will provision up to and including the Network Terminating Equipment (NTE), which is on the Telephone Company's side of the demarcation point. This location will be at each customer's premises, unless specified otherwise and agreed to by the Telephone Company.
- c. NTE installed by the Telephone Company on the customer's premises shall remain the property of the Telephone Company. The customer or user may not rearrange, disconnect, remove, attempt to repair, remote test or interface with any network equipment installed by the Telephone Company without prior written consent of the Telephone Company.
- d. The customer shall be responsible for obtaining permission for the Telephone Company's agents or employees to enter the customer's premises at a mutually agreed upon time for the purpose of installing, inspecting, repairing, or removing (upon termination of the service) the equipment of the Telephone Company.

2. Limitations

- a. OPT-E-MAN is only available within the same Local Access Transport Areas (LATAs).
- b. The Telephone Company shall not be responsible for error correction. Error correction is the responsibility of the customer's OPT-E-MAN compatible CPE.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

B. Service Provisioning (Cont'd)

2. Limitations (Cont'd)

- c. The selected CIR bandwidth usage may not exceed the physical bandwidth/speed of that port. If a customer orders 1 Gbps of CIR on a single port, the Telephone company reserves the right to use up to 10% of bandwidth for traffic management.
- d. OPT-E-MAN does not allow for oversubscription. The total bandwidth (speed sum of the EVCs) on a single port cannot exceed the selected CIR of that port.
- e. The Telephone Company shall not be responsible for installation, operation, maintenance, or adapting OPT-E-MAN to the technological requirements of any specific CPE.
- f. If a customer connects to the Ethernet network using a bridge or switch, only 50 MAC addresses will be initially available per port. Additional addresses may be purchased in blocks of 50 at an additional charge, with a limit of 100 MAC addresses total per port. The rates are described in Section 35.2.D Rates and Charges.
- g. OPT-E-MAN service requiring a cross connect in a Telephone Company central office is only available with a 1 Gbps connection.
- h. Data exiting the network through the customer port or ports is excluded from SLA calculations to the extent that it exceeds the CIR for those ports.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

B. Service Provisioning (Cont'd)

2. Limitations (Cont'd)

- i. The Telephone Company will use controls to limit the amount of multicast and broadcast traffic to protect the OPT-E-MAN network against traffic storms. The maximum throughput of multicast traffic will be set at 1 Mbps per customer port for multipoint-to-multipoint service. There is no restriction on point-to-point or point-to-multipoint multicast traffic. The maximum throughput of broadcast traffic will be set at 200 packets per second per port for multipoint-to-multipoint service and 10 Mbps per port for point-to-point and point-to-multipoint service. Packets dropped by traffic controls will be excluded from SLA calculations. The Telephone Company recommends that customers enable controls for multicast, broadcast, and unknown unicast traffic within the customer network(s).
- j. OPT-E-MAN Service may be available in a meet-point billing arrangement involving another Incumbent Local Exchange Carrier (ILEC) (sometimes also referred to as an Independent Company or ICO), where suitable facilities exist and where appropriate procedures for such arrangement have been put in place between the Telephone Company and the other ILEC. When the Telephone Company and another ILEC jointly provision an OPT-E-MAN Service meet-point arrangement, the ILEC involved shall provision and bill the portion of service located in its operating territory at that ILEC's applicable rates.

3. Customer Interface Options

<u>Interface</u>	<u>Handoff</u>	<u>Bandwidth Limit</u>	<u>Distance Limit</u>
10/100 Mbps Base T	Copper	100 Mbps	100 M
1000 Base SX	Fiber	1 Gbps	550 M
1000 Base LX/LH	Fiber	1 Gbps	550 M - 10 Km
1000 Base ZX	Fiber	1 Gbps	70 Km

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

C. Service Level Agreements (SLAs)

The Telephone Company is committed to maintain Network Availability of 99.95% per month, including the local loop which equates to less than 21.6 minutes of downtime per month, excluding maintenance windows.

Network Availability is calculated as the percentage of time that the Ethernet network is capable of accepting and delivering customer data during the measurement period. The calculation for Network Availability for a given month is as follows:

$$\text{Network Availability} = \frac{(24 \text{ hours} \times \text{days in month} \times 60 \times \text{number of customer sites} - \text{network outage time})}{(24 \text{ hours} \times \text{days in month} \times 60 \times \text{number of customer sites})}$$

The Telephone Company will meet the Network Availability, given the following terms and conditions:

- The customer must notify the Telephone Company when the service parameters within the calendar month fall below (or above) the committed level.
- The customer must request a service credit within 45 days after the end of the month when the failure occurred.
- Upon verification by the Company that the actual service performance for that parameter was less than the committed level, the customer will be provided a service credit equal to 10% of the monthly recurring charge for that service parameter for all affected ports.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

C. Service Level Agreements (SLAs) (Cont'd)

1. Grade of Service Guarantees

Grade of Service guarantees will exist for OPT-E-MAN Service if the Telephone Company fails to meet service parameters, such as Latency, PDR and Jitter, defined for each Grade of Service, given the following terms and conditions:

- The customer must notify the Telephone Company when the service parameters within the calendar month fall below (or above) the committed level.
- The customer must request a service credit within 45 days after the end of the month when the failure occurred.
- Upon verification by the Telephone Company that the actual service performance for that parameter was less than the committed level, the Telephone Company has one month to correct the problem.
- If after one month, the service performance for that parameter is still less than the committed level, the customer will be provided a service credit equal to 25% of the monthly recurring charge for that service parameter for all affected ports.

a. Packet Delivery Rate (PDR) Guarantee

The PDR guarantee is a percentage of total traffic from source Network Terminating Equipment (NTE) to the destination NTE to which the customer port is attached.

Bronze PDR = 99.5%
Silver PDR = 99.9%

Packet delivery is measured by averaging sample measurements taken during a calendar month from NTE to NTE to which the customer ports are attached when the OPT-E-MAN network is available for use by the customer.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

C. Service Level Agreements (SLAs) (Cont'd)

1. Grade of Service Guarantees (Cont'd)

b. Latency

The Telephone Company is committed to maintain delay across the Telephone Company's network at no more than a 18-27 ms (36-54 ms roundtrip) depending on grade of service for packets 1500 bytes or less.

Bronze Latency = 27 ms one way (54 ms roundtrip)
Silver Latency = 18 ms one way (36 ms roundtrip)
Best Effort = Not Available

Latency is measured by averaging sample measurements taken during a calendar month between NTE to which the customer ports are attached when the OPT-E-MAN network is available for use by the customer.

c. Jitter

Applicable only to the Silver Grade of Service, OPT-E-MAN is committed to maintain a jitter of less than 12 ms one-way end-to-end (including the local loop) within the Telephone Company's Ethernet network.

Jitter is measured by averaging sample measurements taken during a calendar month between NTE to which the customer ports are attached when the OPT-E-MAN network is available for use by the customer.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

C. Service Level Agreements (SLAs) (Cont'd)

2. Allowance for Service Interruptions

The OPT-E-MAN outage credits listed below are in lieu of, and not in addition to, the outage credit allowances provided for in the General Conditions Section of this Guidebook.

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this Guidebook, or in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer. An interruption period starts when an inoperative service is reported to the Telephone Company and the Telephone Company confirms that continuity has been lost, and ends when the service is operative.

In case of an interruption to OPT-E-MAN service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100 percent of the applicable monthly rates.

The Telephone Company's failure to provide or maintain services under this Guidebook shall be excused by force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Telephone Company, acts of God and other circumstances beyond the Telephone Company's reasonable control.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

C. Service Level Agreements (SLAs) (Cont'd)

2. Allowance for Service Interruptions (Cont'd)

a. When a Credit Allowance Does Not Apply

No credit allowance will be made for:

- Interruptions caused by the negligence of the Customer;
- Interruptions of a service due to the failure of equipment or systems provided by the Customer or parties other than the Telephone Company;
- Interruptions of a service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated;
- Interruptions of a service when the Customer has released that service to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service during the time that was negotiated with the Customer prior to the release of that service;
- No credit allowances will apply during a Telephone Company work stoppage;
- No credit allowance due to governmental orders, civil commotions, criminal actions taken against the Telephone Company, acts of God and other circumstances beyond the Telephone Company's reasonable control.

3. SLA Conditions

- a. SLAs will be offered at no charge to all customers with term agreements of 1 year or more. Month-to-month customers will continue to receive credits as described in Part 2, Section 2 of this Guidebook.
- b. SLAs will apply to all connection types.
- c. SLA credits will not exceed full monthly charges for affected network elements.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

C. Service Level Agreements (SLAs) (Cont'd)

4. SLA Exclusions

The Telephone Company will be excluded from providing any Service Level Agreement credits should any of the following conditions occur:

- a. Force major events such as, but not limited to an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes. Loss or damage resulting from any cause beyond the Telephone Company's reasonable control such as acts of war, civil disturbances, acts of civil or military authorities or public enemy.
- b. All SLAs are guaranteed end-to-end (hand-off at the customer demarcation to hand-off at the customer demarcation, including the local loop). The failures of any components beyond the demarcation point are excluded from SLA calculation.
- c. Data Loss during the Telephone Company's scheduled maintenance window.
- d. Data exceeding subscribed CIR.
- e. Failures attributed to facilities or equipment provided by customer or its contractors, equipment vendors, another local exchange carrier or inter-exchange carrier.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/2/}

35.1 Service Description (Cont'd)

D. OPT-E-MAN Configuration

The customer must order OPT-E-MAN service via an OPT-E-MAN standard interface as described in the following:

- 10/100 Mbps Base T - a copper handoff with a bandwidth limitation of 100 Mbps
- 1 Gbps Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX)- a fiber handoff with a bandwidth limitation of 1 Gbps

The customer must select a Port Committed Information Rate (CIR) and one (1) Ethernet Virtual Connection (EVC) with specified CIR to enable service. The EVC/CIR has the option of utilizing a portion of the PORT CIR or the entire PORT CIR. The bandwidth usage (CIR) selected by the customer must be in service for at least 30 days before an increase or decrease in the bandwidth can be requested.

The aggregate assigned Committed Information Rate (CIR) across all point-to-point and point-to-multipoint ICO Trunk Connections (EVCs) between any two customer locations, utilizing a Meet-Point GigE Trunk arrangement between the Telephone Company and a ILEC, cannot exceed 600 Mbps per Basic or Basic Plus Connections.^{/1/}

The customer will have the option to order Bronze or Silver Grades of Service.

Network Terminating Equipment (NTE) will be placed at the customer's premises or Telephone Company central office as part of the OPT-E-MAN Service.

- A total of 8 EVCs may be configured per Basic 10/100 Mbps port.
- A total of 64 EVCs may be configured per Basic 1 Gbps port.
- A total of 7 EVCs may be configured per Basic Plus 10/100 Mbps port.
- A total of 63 EVCs may be configured per Basic Plus 1 Gbps port.

/1/ This provisioning requirement will only apply to new service installed after March 30, 2009.

/2/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/3/}

35.1 Service Description (Cont'd)

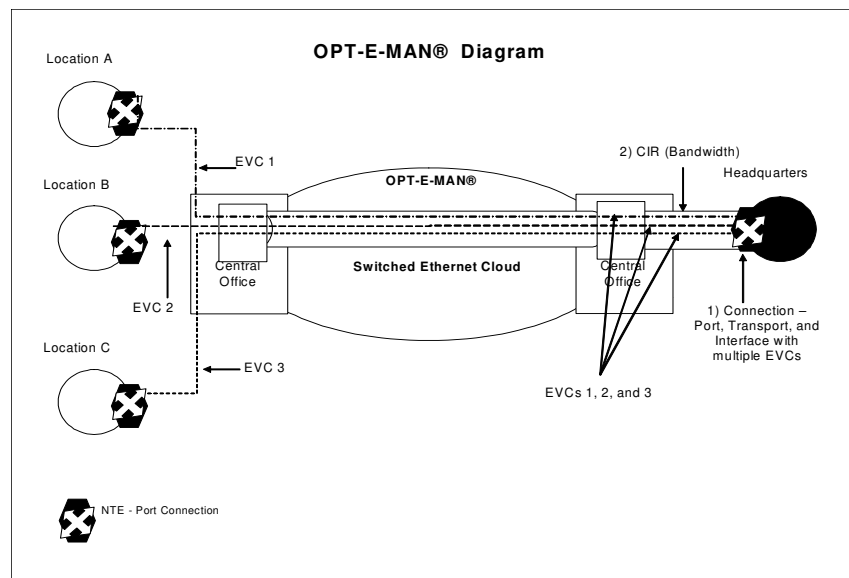
D. OPT-E-MAN Configuration (Cont'd)

When EVCs are ordered, the customer must designate the portion of the CIR bandwidth assigned to each EVC. The CIR bandwidth for the EVCs range from 2 Mbps to 1000 Mbps in 1 Mbps increments. EVCs will be prioritized as Bronze or Silver. The originating and terminating ports must both have a CIR with Silver GoS for the EVC between the two ports to be prioritized with a Silver GoS. For point-to-point and point-to-multipoint connections, EVCs can be set in 1 Mbps increments from 2 Mbps to 600 Mbps.^{/1/} For multipoint-to-multipoint connections, EVCs can be set in 1 Mbps increments from 2 Mbps to 1 Gbps.

The aggregate assigned Committed Information Rate (CIR) across all Ethernet Virtual Connections (EVCs) between any two customer connections cannot exceed 600 Mbps per Basic or Basic Plus Connection.

The customer EVC order will designate the GoS of the CIR assigned connection and may not be higher than the GoS CIR assigned to any of the connecting ports.^{/2/}

An EVC must be in service for at least 30 days before any changes can be requested.



/1/ Effective 08/31/07, 1000 Mbps EVCs for point-to-point and point-to-multipoint are limited to existing customers at existing locations.

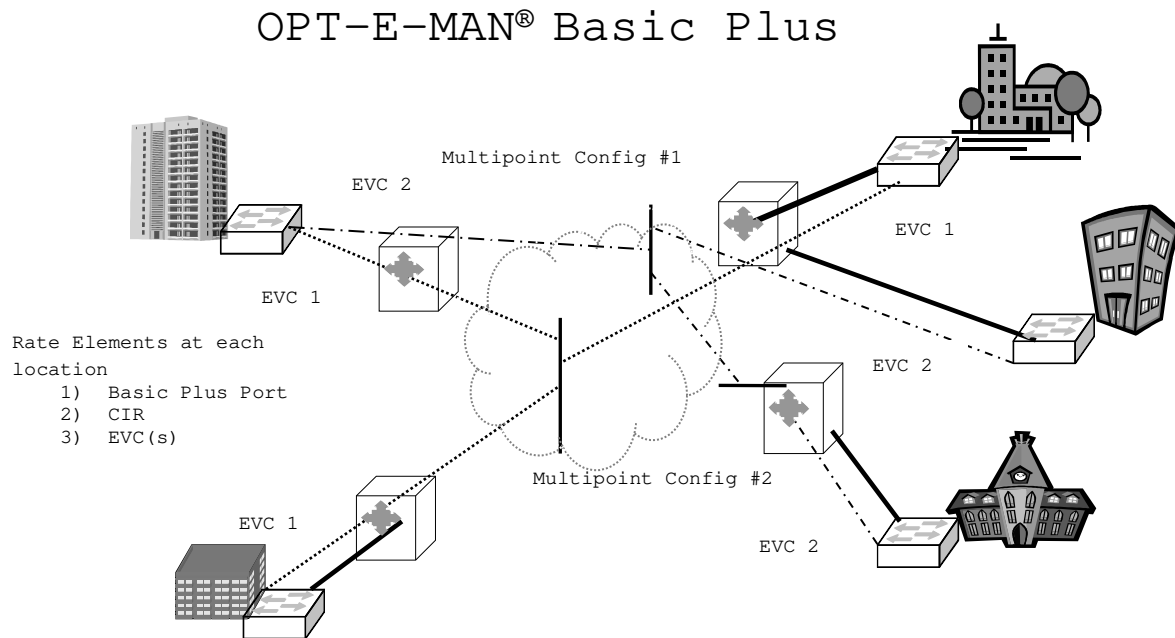
/2/ This condition only applies to service ordered or purchased after 08/31/07.

/3/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd) ^{/1/}

35.1 Service Description (Cont'd)

D. OPT-E-MAN Configuration (Cont'd)



The service above has a port at each location (Basic Plus). Each Basic Plus port has a Committed Information Rate (CIR) that must be equal to or greater than the sum of the Ethernet Virtual Connections (EVCs) on that port. Basic Plus service can facilitate Point to Point, Point to Multipoint, or Multipoint to Multipoint as shown above. EVC1 and EVC2 represents Basic Plus Multipoint to Multipoint configurations, illustrating that each port in a multipoint configuration can transmit traffic to all other locations on the same multipoint configuration. Point to Point is a dedicated connection between two ports. Point to Multipoint is multiple point to point connections between several different ports. Multipoint to Multipoint is a connection between multiple designated ports on the OPT-E-MAN network.

E. Responsibility of the Customer

The customer is responsible for providing the compatible CPE to be used for the connection to the OPT-E-MAN Service. The customer is responsible for notifying the Telephone Company of any interruption in service.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

F. Rate Elements

Connection

The OPT-E-MAN connection rate elements are assessed per interface at 10/100 Mbps or 1 Gbps Ethernet. The OPT-E-MAN connection rate element includes the physical connection from the customer demarc to the Ethernet network.

Committed Information Rate (CIR)

CIR is bandwidth assessed per speed increments ranging from 2 Mbps to 1 Gbps and is available in Bronze and Silver Grade of Service. OPT-E-MAN Best Effort service is available in CIR speeds of 2, 4 and 8 Mbps.

Ethernet Virtual Connections (EVC)

EVCs must be ordered in increments between 2-600 Mbps (point-to-point and point-to-multi-point) or 2-1000 Mbps (multi-point to multi-point), not to exceed the CIR bandwidth ordered per connected port. CIR per EVC may be set in 1 Mbps increments.

Nonrecurring Charges

One-time charges that apply for specific work activity related to the provisioning of OPT-E-MAN Service, as described in Section 35.2.

Recurring Charges

Recurring charges are rates that apply each month or fraction thereof that the service is provided. Recurring rates apply to 12, 24, 36, or 60-month period under the terms and conditions of Term Pricing Plan (TPP), discussed in 35.1.H.

Month to Month Rates

Upon completion of a TPP, a customer's service will automatically convert to the Month-to-Month Rates unless the customer requests a new TPP.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/3/}

35.1 Service Description (Cont'd)

G. Optional Features

Repeater (Circuit Regenerators)

Provide essential detection and retransmission of Ethernet signals. Repeaters will only be provided as required by the Telephone Company when actual fiber facility distance between customer designated premises and/or central office locations exceed design limits (as specified in technical publication SBC-TP-76412-000). Repeaters will be located exclusively in Telephone Company central offices.

Additional MAC Addresses

If a customer connects to the Ethernet network using a bridge or switch for Layer 2 connectivity, only 50 MAC addresses will be initially available per port. 50 additional addresses may be purchased at an additional charge, with a limit of 100 MAC addresses total per port.

Meet-Point Billing Options

Meet-Point, where available, may be offered in two configurations:

Direct LEC Connection is provisioned using standard OPT-E-MAN Basic or Basic Plus Connections^{/1/} and associated Committed Information Rate (CIR),^{/1/} plus mileage. The mileage is measured in airline miles from the OPT-E-MAN switch location to the ILEC (ICO) meet-point location.

GigE ICO Trunking Arrangement applies an Independent Company (ICO) Trunk Connection charge between the OPT-E-MAN switch to the meet-point that is shared with the ILEC (ICO) Ethernet switch. The ICO Trunk Connection charge is applied to each Customer Ethernet Virtual Channel (EVC) that is transported on the GigE Trunk backbone to the meet-point.^{/2/} The trunk mileage charge is from the OPT-E-MAN switch to the meet-point for mileage that exceeds 10 miles. The mileage charge is applicable to each ICO Trunk Connection (EVC) transported access the GigE Trunk.

/1/ Basic and/or Basic Plus Connection and CIR rate elements are available in Section 35.2.A and 35.2.B. Direct LEC Mileage rate elements are available in Section 35.2.E.3.a.

/2/ ICO Trunk Connection and ICO Trunk Mileage rate elements are available in Section 35.2.E.3.b.

/3/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/2/}

35.1 Service Description (Cont'd)

H. Term Pricing Plan^{/1/}

The OPT-E-MAN Term Payment Plan (TPP) is a term plan that allows a customer to purchase OPT-E-MAN Service over a 1, 2, 3 or 5-year period. During the term of the selected TPP, Telephone Company initiated recurring rate changes (increases or decreases) will automatically be applied to the monthly payments for the remaining months of the current TPP term however, the monthly recurring rate during the TPP term will never exceed the initial TPP rate. The TPP rates can be found in Section 35.2. The customer must commit to at least a 12-month TPP to qualify for the service.

The Administrative Charge is a non-recurring charge that applies for each Access Order. The Administrative Charge will be waived for all orders requesting new service. Administrative Charges for OPT-E-MAN are set forth in Section 35.2.D.

/1/ All term plans for OPT-E-MAN Service which are established after November 9, 2013, for term lengths which are scheduled to expire at any time after October 1, 2018, will instead expire on October 1, 2018. All such services existing on or after October 1, 2018, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established after October 20, 2016.

/2/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

I. Moves

Moves involve a change in the physical location of one of the following:

- Service rearrangement;
- Point of Termination at the customer's premises; or
- Customer's premises

Move charges are dependent upon the type of move requested by the customer.

a. Service Rearrangement

Service rearrangements are changes to existing (installed) services, which do not result in a change in the minimum period requirements, as set forth in Part 2, Section 5 of this Guidebook.

b. Moves Within the Same Building

When the move is to a new location within the same building, the Administration charge, all associated non-recurring charges, and Customer Connection charge for the service termination affected will apply. There will be no change in the minimum period requirements, as described in Part 2, Section 5 of this Guidebook.

c. Moves to a Different Building

1. The customer may move one OPT-E-MAN location to another location in the same LATA and maintain the existing TPP term at the new location, or establish a new TPP equal to or greater than the remaining time left at the old location without assessment of early Termination Liability charges. No lapse in billing can occur. The customer's request for the disconnect at the existing location and the request for the Add at the new location must refer to each other and be issued at the same time.
2. When the move is to a new location which is served out of a different serving wire center, the Administration charge, all associated non-recurring charges, and a new Customer Connection charge for the service will apply. There will be no change in the minimum period requirements.
3. For all other moves to a different building and/or moves at more than one location, the customer will be liable for termination charges and will be treated as a discontinuance; therefore, start of service, all associated nonrecurring charges, and new minimum period requirements, as described in Part 2, Section 5 of this Guidebook, will apply.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

J. Expiration of OPT-E-MAN TPP term options

The OPT-E-MAN TPP is not available for renewal. At the expiration of the TPP term, the customer may select a new TPP term at the prevailing rates. If a customer does not wish to purchase a new OPT-E-MAN TPP at the expiration of the term, the customer's service will automatically convert to the prevailing month-to-month rates. The Telephone Company must receive written notice 45 days prior to termination.

K. Termination Liability

Termination liability charges will apply in the following cases:

In the event service (which consists of a Basic or Basic Plus Connection and a designated CIR) is terminated prior to the end of the TPP term, a termination charge utilizing the following termination percentage will apply:

Termination Billing Period Percentage: 50%

The monthly recurring rates exclude EVC(s) and additional MAC address charges.

The termination charge is calculated as follows:

(Monthly recurring rates, e.g. Basic Plus Connection 10/100 Mbps 1 Year \$660 + Bronze 10 Mbps CIR \$550 = \$1,210) X (Months remaining in TPP term) X (Termination Billing Period Percentage)

Example: A customer with \$1,210.00 in monthly rates terminates service with ten (10) months remaining in a three-year TPP term.

The termination liability charge would be calculated as follows:

$$(\$1,210.00) \times (10) \times (.50) = \$6,050.00$$

- L. Termination Liability will not apply for first time customer's first two OPT-E-MAN Ports if the customer cancels service prior to the 61st calendar day of service.

This will allow customers to fully complete integration testing between AT&T's OPT-E-MAN Network and their Ethernet Network without incurring termination penalties associated with a circuit under the TPP if they elect not to continue service.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/1/}

35.1 Service Description (Cont'd)

M. Upgrades

An upgrade is considered an increase in speed/capacity and technology/functionality when comparing OPT-E-MAN Service to the new service. Customers will be permitted to upgrade to a higher-speed service provided by the Company, without incurring Termination Charges, given all of the following conditions are met:

1. The customer must issue a disconnect order for the existing OPT-E-MAN Service and place a service order for the new higher-speed service at the same locations such that there is no more than 90 days overlap in service.
2. The new higher-speed service term must be equal to or greater than the remaining time left on the existing OPT-E-MAN term.
3. The existing OPT-E-MAN Service must have been in service for a minimum period of 15 months for a 3-year term, or 18 months for a 5-year term.

Existing OPT-E-MAN Service with 1 or 2-year terms would not be eligible for this option.

Migration to AT&T Switched Ethernet ServiceSM

Customers subscribing to OPT-E-MAN Service may migrate to AT&T Switched Ethernet provided by the Telephone Company without incurring termination charges, subject to the following conditions:

1. The new AT&T Switched Ethernet Service and the existing OPT-E-MAN Service must be billed to the same customer of record at the same customer locations.
2. The customer's existing service must have been in place for at least 12 months.
3. The minimum term for the new service must be at least 12 months and must be equal to or greater than the number of months remaining in the customer's existing Term Payment Plan (TPP) term.
4. The speed (capacity/bandwidth) of the new service must be equal to or greater than that of the existing service.
5. The customer must issue a disconnect order for the replaced OPT-E-MAN Service to be effective within 90 days after the AT&T Switched Ethernet Service installation date. The disconnect and new orders must be coordinated through the Telephone Company.
6. If overlapping service is required, the period will be limited to not more than 90 days and billing will apply to both services during the time both services are available.

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd) ^{/4/}

35.2 Rates and Charges

A. Connection

<u>Connection</u>	<u>USOC</u>	<u>Month-to- Month</u>	<u>1 Year</u> ^{/3/}	<u>2 Year</u> ^{/3/}	<u>3 Year</u> ^{/3/}	<u>5 Year</u> ^{/3/}	<u>NRC</u> ^{/1/}
Basic							
10/100 Mbps Gigabit Ethernet	P9FEX	\$3,198.50	\$660.00	\$630.00	\$550.00	\$480.00	\$1,630.00
	P9FGX	4,879.76	1,020.00	970.00	850.00	720.00	1,780.00
Basic Plus							
10/100 Mbps Gigabit Ethernet	P9FFX	3,198.50	660.00	630.00	550.00	480.00	1,630.00
	P9FHX	4,879.76	1,020.00	970.00	850.00	720.00	1,780.00

B. Committed Information Rate (CIR)

1. Best Effort Grade of Service

<u>CIR Bandwidth Charges</u>	<u>USOC</u>	<u>Monthly Recurring Rate</u>	<u>NRC</u> ^{/2/}
CIR Speed (Mbps)			
2	R6E2E	\$881.64	\$0.00
4	R6E4E	1,025.18	0.00
8	R6E8E	1,599.26	0.00

/1/ As of 09/09/05 nonrecurring charges will be waived for Basic and Basic Plus Connections for 2, 3 and 5-year terms for new service.

/2/ As of 09/06/06, nonrecurring charges will be waived for CIR NRCs.

/3/ All term plans for OPT-E-MAN Service which are established after November 9, 2013, for term lengths which are scheduled to expire at any time after October 1, 2018, will instead expire on October 1, 2018. All such services existing on or after October 1, 2018, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established after October 20, 2016.

/4/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd) ^{/4/}

35.2 Rates and Charges (Cont'd)

B. Committed Information Rate (CIR) (Cont'd)

2. Bronze Grade of Service

<u>CIR Bandwidth Charges</u>	<u>USOC</u>	<u>Monthly Recurring Rate</u>	<u>NRC</u> ^{/3/}
CIR Speed (Mbps)			
2	R6E2B	\$ 1,045.67	\$0.00
4	R6E4B	1,230.20	0.00
5 ^{/2/}	R6EAB	1,558.25	0.00
8	R6E8B	1,906.79	0.00
10 ^{/2/}	R6EBB	2,255.36	0.00
15 ^{/1/}	R6ECB	4,674.72	0.00
20 ^{/2/}	R6EDB	3,116.48	0.00
25 ^{/1/}	R6EEB	5,822.90	0.00
30 ^{/1/}	R6EFB	6,273.98	0.00
40 ^{/1/}	R6EGB	6,766.05	0.00
50 ^{/2/}	R6EHB	3,567.56	0.00
60 ^{/1/}	R6EJB	8,160.26	0.00
80 ^{/1/}	R6EKB	8,436.68	0.00
100 ^{/2/}	R6ELB	4,182.65	0.00
125 ^{/1/}	R6EMB	10,087.55	0.00
150	R6ENB	4,756.73	0.00
175 ^{/1/}	R6EOB	14,639.25	0.00
200 ^{/1/}	R6EPB	15,336.35	0.00
250 ^{/2/}	R6EQB	5,453.85	0.00
300 ^{/1/}	R6ERB	17,427.68	0.00
400 ^{/1/}	R6ESB	18,452.82	0.00
500 ^{/2/}	R6ETB	6,602.03	0.00
600	R6EUB	7,750.20	0.00
700 ^{/1/}	R6EVB	21,610.31	0.00
800 ^{/1/}	R6EWB	22,635.45	0.00
900 ^{/1/}	R6EYB	23,701.62	0.00
1000 ^{/2/}	R6EZB	8,939.37	0.00

/1/ As of 03/31/05 the specified CIR speeds will no longer be available to new customers, there will be no change to existing customers.

/2/ As of 03/31/05, a one-time CIR nonrecurring charge will be waived for all existing customers that are currently on a grandfathered CIR option and elect to change their selected CIR to (5, 10, 20, 50, 100, 250, 500 or 1000 Mbps) on or before 06/30/05.

/3/ As of 09/06/06, nonrecurring charges will be waived for CIR NRCs.

/4/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd) ^{/4/}

35.2 Rates and Charges (Cont'd)

B. Committed Information Rate (CIR) (Cont'd)

3. Silver Grade of Service

<u>CIR Bandwidth Charges</u>	<u>USOC</u>	<u>Monthly Recurring Rate</u>	<u>NRC</u> ^{/3/}
CIR Speed (Mbps)			
2	R6E2C	\$ 1,742.76	\$0.00
4	R6E4C	1,906.79	0.00
5 ^{/2/}	R6EAC	2,255.36	0.00
8	R6E8C	2,603.91	0.00
10 ^{/2/}	R6EBC	2,952.45	0.00
15 ^{/1/}	R6ECC	5,289.83	0.00
20 ^{/2/}	R6EDC	3,813.60	0.00
25 ^{/1/}	R6EEC	6,602.03	0.00
30 ^{/1/}	R6EFC	7,135.10	0.00
40 ^{/1/}	R6EGC	7,668.18	0.00
50 ^{/2/}	R6EHC	4,264.65	0.00
60 ^{/1/}	R6EJC	9,308.43	0.00
80 ^{/1/}	R6EKC	10,456.61	0.00
100 ^{/2/}	R6ELC	4,879.76	0.00
125 ^{/1/}	R6EMC	11,399.75	0.00
150	R6ENC	6,150.95	0.00
175 ^{/1/}	R6EOC	16,525.53	0.00
200 ^{/1/}	R6EPC	17,304.65	0.00
250 ^{/2/}	R6EQC	6,848.06	0.00
300 ^{/1/}	R6ERC	19,683.00	0.00
400 ^{/1/}	R6ESC	20,913.20	0.00
500 ^{/2/}	R6ETC	7,996.23	0.00
600	R6EUC	9,144.41	0.00
700 ^{/1/}	R6EVC	24,398.73	0.00
800 ^{/1/}	R6EWC	25,587.90	0.00
900 ^{/1/}	R6EYC	26,818.10	0.00
1000 ^{/2/}	R6EYC	10,333.58	0.00

/1/ As of 03/31/05 the specified CIR speeds will no longer be available to new customers, there will be no change to existing customers.

/2/ As of 03/31/05, the CIR nonrecurring charge will be waived for all existing customers that are currently on a grandfathered CIR option and elect to change their selected CIR to (5, 10, 20, 50, 100, 250, 500 or 1000 Mbps) on or before 06/30/05.

/3/ As of 09/06/06, nonrecurring charges will be waived for CIR NRCs.

/4/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/2/}

35.2 Rates and Charges (Cont'd)

C. EVC Charges

EVC CIR Range	BRONZE -----		SILVER -----		NRC per EVC
	USOC	Monthly Recurring Rate	USOC	Monthly Recurring Rate	
2-100 Mbps	EVNAB	\$0.00	EVNAC	\$0.00	\$0.00
101-500 Mbps	EVNBB	\$0.00	EVNBC	\$0.00	\$0.00
501-1000 Mbps	EVNCB	\$0.00	EVNCC	\$0.00	\$0.00

D. Other Charges

Item	USOC	Recurring Charge	Nonrecurring Charge
Administrative Charge, per order	ORCMX	N/A	\$209.15
Design and Central Office Connection Charge, per circuit	NRMCK	N/A	0.00
Customer Connection Charge, per termination	NRBBL	N/A	0.00

E. Optional Features

	USOC	Month- to-Month	1 Year ^{/1/}	2 Year ^{/1/}	3 Year ^{/1/}	5 Year ^{/1/}	NRC
1. Repeater							
VU4	\$1,640.25		\$340.00	\$315.00	\$275.00	\$255.00	\$210.00

	USOC	Recurring Charge	Nonrecurring Charge
2. Additional MAC Addresses (51-100)	M2CAX	\$17.45	\$59.00

3. Meet-Point Billing

a. Direct LEC Connection Mileage

Above 0 and inclusive of 10 miles	JZXLA	\$2,050.32	\$1,200.00
Above 10 and inclusive of 25 miles	JZXLB	4,100.63	1,200.00
Above 25 and inclusive of 35 miles	JZXLC	6,150.95	1,200.00
Above 35 and inclusive of 50 miles	JZXLD	10,251.57	1,200.00

/1/ All term plans for OPT-E-MAN Service which are established after November 9, 2013, for term lengths which are scheduled to expire at any time after October 1, 2018, will instead expire on October 1, 2018. All such services existing on or after October 1, 2018, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established after October 20, 2016.

/2/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/3/}

35.2 Rates and Charges (Cont'd)

E. Optional Features (Cont'd)

3. Meet-Point Billing (Cont'd)

b. GigE Trunking

ICO Trunk Connection - EVC

	USOC	<u>1 Year</u> ^{/2/}	<u>2 Year</u> ^{/2/}	<u>3 Year</u> ^{/2/}	<u>5 Year</u> ^{/2/}	<u>Monthly</u>	<u>NRC Charge</u> ^{/1/}
2 Mbps	LYTOA	\$340.00	\$290.00	\$250.00	\$220.00	\$1,640.25	\$300.00
4 Mbps	LYTOB	380.00	330.00	285.00	250.00	1,804.28	345.00
5 Mbps	LYTOC	430.00	370.00	315.00	270.00	2,050.32	400.00
8 Mbps	LYTOD	490.00	420.00	360.00	310.00	2,337.38	460.00
10 Mbps	LYTOE	570.00	490.00	420.00	360.00	2,706.42	525.00
20 Mbps	LYTOF	670.00	580.00	504.00	430.00	3,198.50	600.00
50 Mbps	LYTOG	840.00	730.00	630.00	540.00	3,977.63	700.00
100 Mbps	LYTOH	1,120.00	970.00	840.00	720.00	5,289.83	800.00
150 Mbps	LYTOJ	1,670.00	1,450.00	1,260.00	1,080.00	7,914.23	925.00
250 Mbps	LYTOK	2,160.00	1,870.00	1,620.00	1,380.00	10,210.58	1,100.00
500 Mbps	LYTOL	4,640.00	4,030.00	3,500.00	2,980.00	21,897.35	1,100.00
600 Mbps	LYTOM	5,560.00	4,830.00	4,200.00	3,570.00	26,244.00	1,100.00
1000 Mbps	LYTON	6,390.00	5,500.00	4,830.00	4,100.00	30,180.60	1,100.00

/1/ Nonrecurring charges will be waived for those customers selecting a 24, 36 or 60-month term payment plan (TPP) period for new service.

/2/ All term plans for OPT-E-MAN® Service which are established after November 9, 2013, for term lengths which are scheduled to expire at any time after October 1, 2018, will instead expire on October 1, 2018. All such services existing on or after October 1, 2018, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. Notwithstanding anything to the contrary in the previous two sentences, this footnote does not apply to any term plans established after October 20, 2016.

/3/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd) ^{/1/}

35.2 Rates and Charges (Cont'd)

E. Optional Features (Cont'd)

3. Meet-Point Billing (Cont'd)

b. GigE Trunking (Cont'd)

	<u>USOC</u>	<u>Recurring Charge</u>
GigE ICO Trunking Arrangement ICO Trunk Mileage		
Above 0 and inclusive of 10 miles - per EVC	N/A	N/A
Above 10 and inclusive of 25 miles - per EVC		
2 Mbps to 20 Mbps	JZXTE	\$ 697.13
50 Mbps to 150 Mbps	JZXTF	1,537.74
250 Mbps to 1 Gbps	JZXTG	6,150.95
Above 25 and inclusive of 35 miles - per EVC		
2 Mbps to 20 Mbps	JZXTH	1,107.18
50 Mbps to 150 Mbps	JZXTH	2,767.94
250 Mbps to 1 Gbps	JZXTH	7,176.11
Above 35 and inclusive of 50 miles - per EVC		
2 Mbps to 20 Mbps	JZXTH	1,681.28
50 Mbps to 150 Mbps	JZXTH	4,510.70
250 Mbps to 1 Gbps	JZXTH	8,201.25

/1/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/3/}35.3 Customized Switched Metro Ethernet (CSME)^{/1/, /4/}

A. Service Description

The CSME Port Connection provides the customer with a switched, logical point-to-point, point to multi-point, and/or multi-point to multi-point connection between the customer locations using a physical connection to the Ethernet network, and virtual connections through the Ethernet network.

There are no CIR options associated with the CSME Port. The full bandwidth of the CSME Port is available for transport as best effort. CSME Service can be purchased with the following Port types:

- 10/100 Base T (10 Mbps or 100 Mbps)
- Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX)

CSME is a best effort grade of service, with no performance parameters, and the performance is not guaranteed.

Best Effort Grade of Service is intended for non-critical applications. Standard Telephone Company procedures will be used to provision and maintain the service. No specific performance assurances are provided in connection with the Best Effort Grade of Service.

B. Terms and Conditions

In addition to conditions set forth elsewhere in this Guidebook, the following conditions apply to CSME Service:

1. The Telephone Company shall not be responsible for installation, operation, maintenance or adapting CSME Service to the technological requirements of any specific CPE.
2. CSME Service supports full duplex communication.
3. If a customer connects to the CSME network using a bridge, switch or router for Layer 2 connectivity, 150 MAC addresses are included per Layer 2 device, per port.
4. CSME Service is distance limited, based on circuit configuration. A repeater, as described in Section 35.3(C)(2)(c), may be used to extend the transmission of CSME Service.

/1/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

/2/ Material now appears on Page 20.

/3/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

/4/ The Company currently plans to discontinue this service on or after October 30, 2021.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/3/}35.3 Customized Switched Metro Ethernet (CSME)^{/1/, /4/} (Cont'd)

B. Terms and Conditions (Cont'd)

5. A total of 8 Ethernet Virtual Connections (EVCs) may be configured per 10/100 Base T connection. A total of 64 EVCs may be configured per 1 Gbps connection.
6. CSME Service may be available in a meet-point billing arrangement involving another Incumbent Local Exchange Carrier (ILEC) (sometimes also referred to as an Independent Company or ICO), where suitable facilities exist and where appropriate procedures for such arrangement have been put in place between the Telephone Company and the other ILEC. When the Telephone Company and another ILEC jointly provision a CSME Service meet-point arrangement, the ILEC involved shall provision and bill the portion of the service located in its operating territory at that ILEC's applicable rates.
7. Service Level Agreements (SLAs) are not offered with this service.
8. Both the 10 Mbps and 100 Mbps ports are provisioned using the 10/100 Base T Electrical Interface.
9. Customers will be permitted to upgrade from a 10 Mbps or 100 Mbps Ports to a 1 Gbps Port; however, the Nonrecurring Charge associated with the new 1 Gbps Port will apply.

/1/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

/2/ Material formerly appeared on Page 19.

/3/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

/4/ The Company currently plans to discontinue this service on or after October 30, 2021.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/3/}35.3 Customized Switched Metro Ethernet (CSME)^{/1/, /4/}

C. Features

1. Standard Features

Usage, Port, Transport and Interface

Usage, Port, Transport and Interface provides for the physical connection between the customer's premises and the serving wire center, as well as the bandwidth that will be used by the customer at each location.

Available protocols: 10/100 Base T and 1 Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX).

2. Optional Features

a. Additional MAC Addresses

Media Access Control (MAC) Addresses denote a data link layer protocol used for Layer 2 connectivity. If a customer connects to the CSME network using a bridge or switch for Layer 2 connectivity, only 150 MAC addresses can be used per Layer 2 device, per port. Any additional addresses over the first 150 will be assessed an additional charge, with a limit of 200 MAC addresses total per port. An additional charge will be assessed per block of 151-200 addresses.

b. Ethernet Virtual Connections (EVC)

An Ethernet Virtual Connection is a logical point-to-point connection between two customer locations, and goes from the customer demarcation point at one location through the network to terminate at the demarcation point at the second customer location. EVCs do not provide for traffic prioritization. EVCs may be ordered to establish additional virtual connections over the same physical connection. When EVCs are ordered, the customer must designate the amount of bandwidth to be assigned to each EVC. EVCs can be set in 1 Mbps increments from 5 Mbps to 1 Gbps.

/1/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

/2/ Material now appears on Page 21.1.

/3/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

/4/ The Company currently plans to discontinue this service on or after October 30, 2021.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/5/}35.3 Customized Switched Metro Ethernet (CSME)^{/3/, /6/} (Cont'd)

C. Features (Cont'd)

2. Optional Features (Cont'd)

c. Repeater

Repeaters (Circuit Regenerators) provide essential detection and retransmission of Ethernet signals. Repeaters will only be provided as required by the Telephone Company when actual fiber facility distance between customer designated premises and/or central office locations exceed design limits (as specified in technical publication SBC-TP-76412-000). Repeaters will be located exclusively in Telephone Company central offices.

d. Meet-Point Billing Options

Meet-Point, where available, may be offered in two configurations:

Direct LEC Connection is provisioned using standard CSME Connections,^{/1/} plus mileage. The mileage is measured in airline miles from the CSME switch location to the ILEC (ICO) meet-point location.

GigE ICO Trunking Arrangement applies an Independent Company (ICO) Trunk Connection charge between the CSME switch to the meet-point that is shared with the ILEC (ICO) Ethernet switch. The ICO Trunk Connection charge is applied to each Customer Ethernet Virtual Channel (EVC) that is transported on the GigE Trunk backbone to the meet-point.^{/2/} The trunk mileage charge is from the CSME switch to the meet-point for mileage that exceeds 10 miles. The mileage charge is applicable to each ICO Trunk Connection (EVC) transported across the GigE Trunk.

/1/ CSME Connection rate elements are available in Section 35.3(D)(1) and Direct LEC Mileage rate elements are available in Section 35.3(D)(2)(d)(1).

/2/ ICO Trunk Connection and ICO Trunk Mileage rate elements for CSME Service are available in Section 35.3(D)(2)(d)(2).

/3/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

/4/ Material formerly appeared on Page 21.

/5/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

/6/ The Company currently plans to discontinue this service on or after October 30, 2021.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/4/}35.3 Customized Switched Metro Ethernet (CSME)^{/2/, /5/} (Cont'd)

D. Rate Elements

1. Physical and/or Virtual Elements

<u>Description</u>	<u>Nonrecurring Charges</u>	<u>36 Months^{/1/}</u>	<u>60 Months^{/1/}</u>	<u>Monthly Extension</u>
10 Mbps Connection /P9FYX/	\$1,360.00	\$990.00	\$930.00	\$1,310.00
100 Mbps Connection /P9FKX/	1,630.00	1,410.00	1,360.00	2,120.00
1 Gbps Connection /P9FLX/	2,120.00	2,730.00	2,610.00	3,310.00
EVC (per Connection) /EVNDE/	0.00	0.00	0.00	0.00
Additional MAC Addresses (151 - 200) /M2CAX/	59.00	4.25	4.25	4.25
Repeater (Optional) /VU4/	210.00	340.00	315.00	400.00

2. Ordering Elements

Nonrecurring
Charges

a. Administrative Charge - per order /ORCMX/	\$209.15
b. Design and Central Office Connection Charge - per circuit /NRMCK/	0.00
c. Customer Connection Charge - per termination /NRBBL/	0.00

/1/ All term plans for CSME Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after October 1, 2018, will instead expire on October 1, 2018. All such services existing on or after October 1, 2018, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

/2/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

/3/ Material now appears on Page 22.1.

/4/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

/5/ The Company currently plans to discontinue this service on or after October 30, 2021.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/6/}35.3 Customized Switched Metro Ethernet (CSME)^{/3/, /7/} (Cont'd)

D. Rate Elements (Cont'd)

2. Ordering Elements (Cont'd)

d. Meet-Point Billing

	<u>USOC</u>	<u>Recurring Charge</u>	<u>Nonrecurring Charge</u>		
1. Direct LEC Connection Mileage					
Above 0 and inclusive of 10 miles	JZXLA	\$500.00	\$1,200.00		
Above 10 and inclusive of 25 miles	JZXLB	1,000.00	1,200.00		
Above 25 and inclusive of 35 miles	JZXLC	1,500.00	1,200.00		
Above 35 and inclusive of 50 miles	JZXLD	2,500.00	1,200.00		
2. GigE Trunking					
ICO Trunk Connection - EVC					
	<u>USOC</u>	<u>3 Year</u> ^{/2/}	<u>5 Year</u> ^{/2/}	<u>Monthly</u>	<u>Nonrecurring Charge</u> ^{/1/}
10 Mbps	LYTOE	\$420.00	\$360.00	\$660.00	\$525.00
100 Mbps	LYTOH	840.00	720.00	1,290.00	800.00
1000 Mbps	LYTON	4,830.00	4,100.00	7,360.00	1,100.00

/1/ Nonrecurring charges will be waived for those customers selecting a 36 or 60-month Term Payment Plan (TPP) period for new service.

/2/ All term plans for CSME Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after October 1, 2018, will instead expire on October 1, 2018. All such services existing on or after October 1, 2018, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

/3/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

/4/ Material formerly appeared on Page 22.

/5/ Material now appears on Page 22.2.

/6/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

/7/ The Company currently plans to discontinue this service on or after October 30, 2021.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/3/}35.3 Customized Switched Metro Ethernet (CSME)^{/1/, /4/} (Cont'd)

D. Rate Elements (Cont'd)

2. Ordering Elements (Cont'd)

d. Meet-Point Billing (Cont'd)

2. GigE Trunking (Cont'd)

	<u>USOC</u>	<u>Recurring Charge</u>
Meet-Point Billing		
GigE ICO Trunking arrangement		
ICO Trunk Mileage		
CSME Above 0 and inclusive of 10 miles - per EVC	N/A	N/A
CSME Above 10 and inclusive of 25 miles - per EVC		
10 Mbps	JZXT6	\$170.00
100 Mbps	JZXT7	375.00
1000 Mbps	JZXT8	1,500.00
CSME Above 25 and inclusive of 35 miles - per EVC		
10 Mbps	JZXT9	270.00
100 Mbps	JZXTP	675.00
1000 Mbps	JZXTU	1,750.00
CSME Above 35 and inclusive of 50 miles - per EVC		
10 Mbps	JZXTV	410.00
100 Mbps	JZXTW	1,100.00
1000 Mbps	JZXTY	2,000.00

/1/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

/2/ Material formerly appeared on Page 22.1.

/3/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

/4/ The Company currently plans to discontinue this service on or after October 30, 2021.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/4/}35.3 Customized Switched Metro Ethernet (CSME)^{/2/, /5/} (Cont'd)E. Term Pricing Plan^{/1/}

CSME Service is only available under the Term Payment Plan (TPP) whereby customers must select either a 36- or 60-month period. Decreases in CSME Monthly Recurring Charges will be passed onto customers who participate in a TPP. At the expiration of the selected Term Payment Plan period, the Monthly Extension Rate in effect at the time of contract expiration will apply, unless a new TPP is selected.

The customer may renew an existing TPP with a written notice of intent to renew no later than 90 days prior to the expiration of the TPP, without incurring new Nonrecurring Charges.

- /1/ All term plans for CSME Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after October 1, 2018, will instead expire on October 1, 2018. All such services existing on or after October 1, 2018, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.
- /2/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.
- /3/ Material now appears on Page 23.1.
- /4/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.
- /5/ The Company currently plans to discontinue this service on or after October 30, 2021.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/4/}35.3 Customized Switched Metro Ethernet (CSME)^{/1/}, ^{/5/} (Cont'd)

F. Upgrade of Service

An upgrade is considered an increase in speed/capacity and technology/functionality when comparing CSME service to a new service. Customers will be permitted to upgrade from CSME Service to a higher-speed service provided by the Company, without incurring Termination Liability charges, given all of the following conditions are met:

1. The customer must issue a disconnect order for the existing CSME locations and place a service order for the new higher-speed service at the same locations such that there is no more than 90 days overlap in service. Termination charges for CSME Service at the current locations will be waived.
2. The new higher-speed service term must be equal to or greater than the remaining time left on the existing CSME term.
3. For Customers upgrading from CSME to OPT-E-MAN Service, the customer's network configuration must remain the same (i.e. multipoint CSME to multipoint OPT-E-MAN). The number of OPT-E-MAN locations must be greater than or equal to the number of CSME locations.
4. The existing CSME Service must have been in service for a minimum period of 15 months for a 3-year term, or 18 months for a 5-year term.
5. For customers upgrading from CSME to OPT-E-MAN Service, a minimum of 50 percent of the connection speed for each individual connection must be maintained:
 - a. If customer has a 1 Gbps CSME connection, then customer must purchase a minimum 500 Mbps OPT-E-MAN connection.
 - b. If customer has a 100 Mbps CSME connection, then customer must purchase a minimum 50 Mbps OPT-E-MAN connection.
 - c. If customer has a 10 Mbps CSME connection, then customer must purchase a minimum 5 Mbps OPT-E-MAN connection.

/1/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

/2/ Material formerly appeared on Page 23.

/3/ Material now appears on Pages 23.2 and 23.3.

/4/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

/5/ The Company currently plans to discontinue this service on or after October 30, 2021.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/3/}35.3 Customized Switched Metro Ethernet (CSME)^{/1/, /4/} (Cont'd)

F. Upgrade of Service (Cont'd)

Migration to AT&T Switched Ethernet ServiceSM

Customers subscribing to CSME Service may migrate to AT&T Switched Ethernet provided by the Telephone Company without incurring termination charges, subject to the following conditions:

1. The new AT&T Switched Ethernet Service and the existing CSME Service must be billed to the same customer of record at the same customer locations.
2. The customer's existing service must have been in place for at least 12 months.
3. The minimum term for the new service must be at least 12 months and must be equal to or greater than the number of months remaining in the customer's existing Term Payment Plan (TPP) term.
4. The speed (capacity/bandwidth) of the new service must be equal to or greater than that of the existing service.
5. The customer must issue a disconnect order for the replaced CSME Service to be effective within 90 days after the AT&T Switched Ethernet Service installation date. The disconnect and new orders must be coordinated through the Telephone Company.
6. If overlapping service is required, the period will be limited to not more than 90 days and billing will apply to both services during the time both services are available.

/1/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

/2/ Material formerly appeared on Page 23.1.

/3/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

/4/ The Company currently plans to discontinue this service on or after October 30, 2021.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd) ^{/4/}35.3 Customized Switched Metro Ethernet (CSME) ^{/2/, /5/} (Cont'd)G. Expiration of CSME TPP Option ^{/1/}

If the customer elects not to renew the TPP or does not notify the Telephone Company of its intent to renew the TPP, the service will automatically be billed under the Monthly Extension rates in effect at the time the TPP expires until the customer cancels or renews the service with a new TPP term. Customers under the Monthly Extension rates may convert their existing service to either a three or five year TPP. The customer will not be assessed any associated Nonrecurring Charges as long as the physical serving arrangement does not change.

- /1/ All term plans for CSME Service which are established or renewed after November 9, 2013, for term lengths which are scheduled to expire at any time after October 1, 2018, will instead expire on October 1, 2018. All such services existing on or after October 1, 2018, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.
- /2/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.
- /3/ Material formerly appeared on Page 23.1.
- /4/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.
- /5/ The Company currently plans to discontinue this service on or after October 30, 2021.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/3/}35.3 Customized Switched Metro Ethernet (CSME)^{/1/, /4/} (Cont'd)

H. Termination Liability

Termination Liability will not apply for a new customer's first two CSME Ports if the customer cancels service prior to the 61st calendar day of service.

I. Termination Liability Charges

Termination Liability Charges will apply to service terminated prior to the contracted period. In addition to any unpaid Special Construction or Nonrecurring Charges (excluding any waived charges), Termination Charges will be equal to:

- 50% of all Recurring Charges for the remaining months of the customer's term.

J. Moves

Moves involve a change in the physical location of one of the following:

- Service rearrangement;
- Point of Termination at the customer's premises; or
- Customer's premises.

Move charges are dependent upon the type of move requested by the customer.

1. Service Rearrangement

Service rearrangements are changes to existing (installed) services, which do not result in a change in the minimum period requirements, as set forth in Part 2, Section 5 of this Guidebook.

2. Moves Within the Same Building

When a customer moves to a new location within the same building, the Administration charge, all associated Nonrecurring Charges, and the Customer Connection charge for the service termination affected will apply. There will be no change in the minimum period requirements, as described in Part 2, Section 5 of this Guidebook.

/1/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

/2/ Material now appears on Page 24.1.

/3/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

/4/ The Company currently plans to discontinue this service on or after October 30, 2021.

35. Optical Ethernet Metropolitan Area Network (OPT-E-MAN®) (Cont'd)^{/3/}35.3 Customized Switched Metro Ethernet (CSME)^{/1/, /4/} (Cont'd)

J. Moves (Cont'd)

3. Moves to a Different Building

- a. The customer may move one CSME location to another location in the same LATA and maintain the existing TPP term at the new location, or establish a new TPP equal to or greater than the remaining time left at the old location without assessment of early Termination Liability charges. No lapse in billing can occur. The customer's request for the disconnect at the existing location and the request for the Add at the new location must refer to each other and be issued at the same time.
- b. When the move is to a new location which is served out of a different serving wire center, the Administration charge, all associated nonrecurring charges, and a new Customer Connection charge for the service will apply. There will be no change in the minimum period requirements.
- c. For all other moves to a different building and/or moves at more than one location, the customer will be liable for termination charges and will be treated as a discontinuance; therefore, start of service, all associated Nonrecurring Charges, and new minimum period requirements, as described in Part 2, Section 5 of this Guidebook, will apply.

/1/ Effective December 10, 2018, CSME Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for CSME Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing CSME term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

/2/ Material formerly appeared on Page 24.

/3/ Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

/4/ The Company currently plans to discontinue this service on or after October 30, 2021.