#### AT&T INTERSTATE ACCESS GUIDEBOOK

PART 7 - Special Access Services - West - CA SECTION 24 - WaveMAN?

2nd Revised Page 1

#### 24. Wavelength Metropolitan Area Network (WaveMAN $^{\text{SM}}$ ) $^{(1)}$

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#### 24.1 Service Description

#### (A) Basic Channel Description

 ${\tt WaveMAN^{SM}}$  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:
  - OC-48, which provides 2.4853 (2.5) Gigabits per second
  - transport
    OC-192, which provides 9.95338 (10) Gigabits per second transport
    100 Mbps 2.5 Gbps Transparent Transport
    2.5 Gbps 10 Gbps Transparent Transport b.

(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.

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

(2) WaveMAN<sup>SM</sup> 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 WaveMAN  $^{\rm SM}$  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 WaveMAN $^{\rm SM}$  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.

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

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#### (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 WaveMAN $^{\rm SM}$  service.

#### (3) Protected Four Fiber Circuit

For protected WaveMAN 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 WaveMAN $^{\rm SM}$  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.

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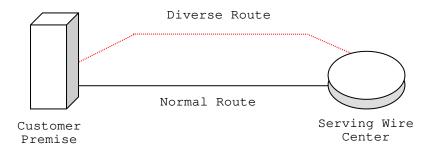
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# (4) Local Channel Diversity

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 WaveMAN $^{\rm SM}$  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.

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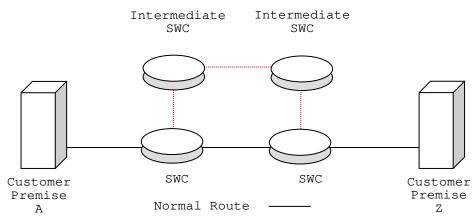
# 24. Wavelength Metropolitan Area Network (WaveMAN<sup>SM</sup>) Cont'd) (1)

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

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

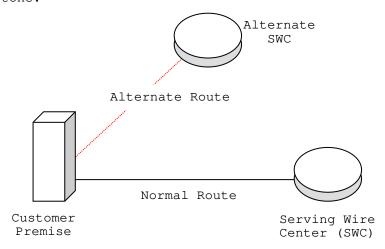




# (6) Alternate Wire Center Diversity

Alternate Wire Center Diversity is for the local loop only. It provides a local channel transmission path for WaveMAN $^{\rm SM}$  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 WaveMAN $^{\rm SM}$  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.



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EFFECTIVE: JUNE 30, 2021

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(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 WaveMAN<sup>SM</sup> 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)

WaveMAN $^{\rm SM}$ , 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. WaveMAN $^{\rm SM}$  Transparent Transport options are available for a 60-month term period only.

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

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# (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 Per	ercentage
12 Month 859	- 5응
24 Month 859	5%
36 Month 759	5%
60 Month 609	) 응

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

Example: A WaveMAN $^{\text{SM}}$  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

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. (N)

# 24. Wavelength Metropolitan Area Network (WaveMAN $^{SM}$ ) Cont'd) $^{(1)}$

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# (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) WaveMAN<sup>SM</sup> customers subscribing to 36 Month and 60 Month Term Pricing Plans may move one end of the WaveMAN<sup>SM</sup> service per the following conditions:
  - (a) A customer may move one end of the WaveMAN<sup>SM</sup> service to a different premises in the same LATA, without incurring early termination liability charges for their existing WaveMAN<sup>SM</sup> 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 WaveMAN $^{\text{SM}}$  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.
- (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 (WaveMAN $^{\text{SM}}$ ) Cont'd) $^{(1)}$

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The moved service will require a disconnect of the existing WaveMAN $^{\text{SM}}$  service and placement of an order for the new WaveMAN $^{\text{SM}}$  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 WaveMAN $^{\text{SM}}$  service and placement of an order for new WaveMAN $^{\text{SM}}$  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 WaveMAN<sup>SM</sup> service is installed without protection and customer subsequently requests protection options after the WaveMAN<sup>SM</sup> 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 WaveMAN<sup>SM</sup> service, and a new Nonrecurring Charge is applicable. This change will require a disconnect of the existing WaveMAN<sup>SM</sup> service and placement of an order for the new WaveMAN<sup>SM</sup> service for the same customer of record. With this upgrade, the customer will experience an out of service condition.
- (c) The WaveMAN<sup>sm</sup> 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 WaveMAN $^{\text{SM}}$  from Other Access Products

Other Access products may not upgrade to WaveMAN $^{\text{SM}}$  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.

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# 24. Wavelength Metropolitan Area Network (WaveMAN $^{SM}$ ) Cont'd) $^{(1)}$

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# (I) Upgrade from OC-48 WaveMAN<sup>SM</sup> to OC-192 WaveMAN<sup>SM</sup>

Customers with one, two, three, or five year OC-48 WaveMAN $^{\rm SM}$  TPPs may, at any time, upgrade to OC-192 WaveMAN $^{\rm SM}$  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 WaveMAN $^{\text{SM}}$  service and the customer is not required to purchase a second WaveMAN $^{\text{SM}}$  circuit for protection options. Protection options are applied on a per WaveMAN $^{\text{SM}}$  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 WaveMAN $^{\rm SM}$  service. There are multiple protection options offered. The options do not need to be the same, but both Channel Terminations of the WaveMAN $^{\rm SM}$  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  $WaveMAN^{SM}$  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.

(N) 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.

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

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WaveMAN<sup>SM</sup> 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 WaveMAN  $^{\text{SM}}$  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 WaveMAN equipment will switch, within 50milliseconds 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  ${\tt WaveMAN^{SM}}$  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 WaveMAN<sup>SM</sup> service, plus the inter-wire segment if the service is served by more than one serving wire center, and is offered as follows:

Equipment Plus Alternate Wire Center Path Protection (a)

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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If any location(s) between the two fiber paths is

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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 WaveMAN  $^{\text{SM}}$  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, WaveMAN  $^{\rm SM}$  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 WaveMAN $^{\text{SM}}$  service from the customers premises location, or from the manhole/splice point nearest the customer premises), to the Utility serving wire center.

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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 WaveMAN<sup>SM</sup> 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, WaveMAN 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 WaveMAN<sup>SM</sup> customers with battery backup for up to eight (8) hours to maintain WaveMAN<sup>SM</sup> 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 WaveMAN $^{\text{SM}}$  services for the WaveMAN $^{\text{SM}}$  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  $WaveMAN^{SM}$  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.

(N)

(C)

# 24. Wavelength Metropolitan Area Network (WaveMAN $^{SM}$ ) Cont'd) $^{(1)}$

(K) Allowance for Service Interruptions

A Service Level Agreement (SLA) is offered with fullyprotected WaveMAN<sup>SM</sup> 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 WaveMAN $^{\text{SM}}$  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 WaveMAN $^{\rm SM}$  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 WaveMAN<sup>SM</sup> 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 WaveMAN $^{\rm SM}$  service up to the meet point. See Part 2, Section 2.8, for regulations applicable to Jointly Provided Access Services.

(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.

(N)

(N)

PART 7 - Special Access Services - West - CA SECTION 24 - WaveMAN?

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24. Wavelength Metropolitan Area Network (WaveMAN<sup>SM</sup>) Cont'd) (1) (C) 24.2 Rates and Charges (1) Recurring Charges (a) OC-48Term Pricing Plan Monthly USOC 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 VU4 \$3,100.00 \$2,640.00 \$2,100.00 \$1,500.00\$1,300.00 -each (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 (N) 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. (N)

SECTION 24 - WaveMAN?

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Wavelength Metropolitan Area Network (WaveMANSM) Cont'd) (2)
 24.
                                                                                        (C)
                           Monthly
                                                Term Pricing Plan
                                                            36 Mo.
                    USOC
                                        12 Mo.
                                                 24 Mo.
                                                                      60 Mo.
                                                                                 NRC
                           Extension
(5) Protection -
per WaveMANSM
service arranged
-Equipment Only
Protection, per
                   CPAEX $2,250.00 $2,000.00 $1,800.00 $1,550.00 $1,350.00 $625.00
terminating end
-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
                   CPAHX
                          $570.00 $450.00
                                              $240.00
                                                         $180.00 $120.00 $625.00
segment
Power Protection<sup>(1)</sup> VBBGX $700.00 $625.00
                                               $525.00
                                                          $480.00 $435.00 $475.00
(6) -Collocation
    Transport
    facilities between
    Collocation
    Arrangements
                   1H48S $5,200.00 $4,100.00 $3,250.00 $2,800.00 $1,800.00
    -Fixed
                   1H48S $425.00
                                     $300.00
    -Per Mile
                                                $260.00
                                                            $240.00
                                                                        $200.00
                (b) OC-192
                                                Term Pricing Plan
                          Monthly
                  USOC
                         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
 ^{(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
                                                                                        (N)
    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.
                                                                                        (N)
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24. Wavelength	Metropo	olitan Area	Network (W	aveMAN <sup>SM</sup> ) C	ont'd) (2)		(C)
		thly Extension	Te 12 Mo.	rm Pricing 24 Mo.	Plan 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 Optiocal Channel iversity Per Channel erminating Bit ate 10 Gbps All States	ions CPALX	\$3,938.00	\$3,038.00	\$2,700.00	\$2,250.00	\$2,025.00	\$850.00
nter Wire enter Diversity Per Channel erminating Bit ate 10 Gbps All States	CPATX	\$2,625.00	\$2,025.00	\$1,800.00	\$1,500.00	\$1,350.00	\$700.00
lternate Wire enter Diversity Per Channel erminating Bit ate 10 Gbps All States	CPAAX	\$6,300.00	\$4,860.00	\$4,320.00	\$3,600.00	\$3,240.00	\$950.00
(5)Protection - er WaveMAN <sup>SM</sup> ervice arranged							
Equipment Only Protection, per terminating end	CPAEX	\$9,000.00	\$8,250.00	\$7,350.00	\$6,300.00	\$5,400.00	\$3,000.0
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	\$4,500.0
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	\$4,200.0
Inter Wire Center Path Protection, per interoffice segment		\$1,425.00	\$1,125.00	\$600.00	\$450.00	\$300.00	\$625.0
Power Protection <sup>(1)</sup>	VBBGX	\$700.00	\$625.00	\$525.00	\$480.00	\$435.00	\$475.0
6) -Collocation Transport facilities be Collocation Arrangements -Fixed -Per Mile	etween	\$9,600.00 \$ \$425.00		\$4,800.00 \$260.00	\$4,200.00		0
(1) Power Protection (2) Effective June new or existing existing servic customer's exi basis at the ap	30, 202 g custom ce arran sting te	<pre>1, this Serv ers. In add gements will erm agreement</pre>	ice will no ition, reque not be acce, service wites until th	longer be aversts to move, pted. Follow ld be provide service is	vailable for add, chang wing the exded on a more discontinu	r purchase lige, or renewapiration of the point of the point of the purchase o	oy (N) w fa

2nd Revised Page 16.1

PART 7 - Special Access Services - West - CA SECTION 24 - WaveMAN?

SEC	IION 24 - WaveMAN?				
24.	Wavelength Metropol	itan Area Net	work (WaveMAN <sup>SM</sup> )	Cont'd) (1)	(C)
	(c) <u>Transpare</u>	ent Transport	(100 Mbps - 2.5	Gbps)	
(1)	Local Distribution Channel	USOC	Monthly Extension	Term Pricing Plan 60 Mo.	
(2)	-Per Point of Termination Terminating Bit Rate 100 Mbps - 2.5 Gbps  Interoffice Transport Mileage	TMECS	\$9,000.00	\$3,800.00	
	a) Channel Mileage				
	-Fixed 100 Mbps - 2.5 Gb	ps 1L5XX	\$1,400.00	\$500.00	
	b) Channel Mileage -Per Mile				
	100 Mbps - 2.5 Gb	ps 1L5XX	\$425.00	\$200.00	
	(d) <u>Transpa</u>	rent Transport	(2.5 Gbps - 10	Gbps)	
(1)	Local Distribution Channel	USOC	Monthly Extension	Term Pricing Plan 60 Mo.	
	-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 Gb	0.5			
	2.0 9000 00 10 90	IL5XX	\$1,800.00	\$575.00	
	b) Channel Mileage -Per Mile 2.5 Gbps to 10 Gb		¢425 00	\$200.00	
(1)	new or existing customer existing service arrange	s. In addition ments will not agreement, sea Monthly rates a	n, requests to mov be accepted. Fol rvice will be prov until the service		

PART 7 - Special Access Services - West - CA 2nd Revised Page 17 SECTION 24 - WaveMAN?

# 24. Wavelength Metropolitan Area Network (WaveMAN $^{SM}$ ) Cont'd) $^{(2)}$

(C)

# (1) Installation and Rearrangement Charges

# (a) OC-48, Transparent Transport (100 Mbps-2.5 Gbps)

	USOC	Nonrecurring Charges (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)

	USOC	Nonrecurring Charges <sup>(1)</sup>
(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

<sup>(1)</sup> 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.

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. (N)