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February 10, 2011

Ms. Beth W. Salak, Director
Division of Competitive Markets and Enforcement
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Dear Ms. Salak:

Attached are revised tariff pages filed to become part of the Verizon Florida LLC Facilities for Intrastate Access Tariff.

FACILITIES FOR INTRASTATE ACCESS

16. ADVANCED COMMUNICATIONS NETWORK

- Thirteenth Revised Page 1
- Tenth Revised Page 2
- Eleventh Revised Page 3
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- Second Revised Page 4.3
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- Fourth Revised Page 7.5

The purpose of this filing is to introduce a new Ethernet Virtual Circuit (EVC) type called Ethernet Virtual Private LAN (EVP-LAN) to Transparent LAN Service (TLS). EVP-LAN enables Verizon Customers to establish multipoint-to-multipoint service across multiple Premier Access UNIs while at the same time using those Premier Access UNIs to establish point-to-point service. EVP-LAN will be available on month-to-month term rates.

If you require additional information, please call Demetria Clark at (850) 222-5479.

Sincerely,

David M. Christian
Vice President
Regulatory Affairs Florida

Attachment

DMC:rt

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS)(A) Definitions

In addition to the Definitions set forth in General Regulations, Section 2.6, the following definitions apply:

Domain: A Virtual Local Area Network (VLAN) or a collection of circuits that belong to one closed user group.

Gigabits per Second (Gbps): Data transfer rate for 1000 Mbps. The speed at which data is transferred through the network, where one Gigabit Per Second equals the transfer rate of one (1) billion bits of data in one (1) second.

Megabit Per Second (Mbps): The speed where data is being transferred in the network, where one Megabit Per Second equals to the transfer rate of 1 million bits of data in 1 second.

Nanometers (nm): Wavelength frequency equivalent to 1 billionth of a meter.

(B) Service Description

Transparent LAN Service (TLS) is a high speed data service which uses a shared optical transport network to allow for the interconnection of Local Area Networks (LANs) across selected metropolitan areas. TLS delivers an interface of 10 Mbps, 100 Mbps, 1000 Mbps, or 10 Gbps from the Customer's LANs to the shared network.

TLS creates a network with the ability to function as a shared public network. TLS protects data privacy by using specialized screening software that permits subscribers to access only their data.

TLS is available in two service types: Ethernet Multipoint Service (EMS) or Ethernet Relay Service (ERS). The customer must select either (EMS) or (ERS) as the service type for each domain.

(1) Ethernet Multipoint Service

Ethernet Multipoint Service (EMS) is a connection-less Ethernet TLS service that allows connectivity among multiple customer designated locations within a LATA.

With the EMS service type, Ethernet TLS protects data privacy by using closed user groups (CUGs), also known as virtual LANs. CUGs or virtual LANs are used to provide traffic separation, privacy and security between customers on the shared switch and backbone. An EMS domain is comprised of any number of access lines designated by the customer to be included in a closed user group (CUG) or virtual LAN. EMS provides multipoint-to-multipoint connectivity among all of the customer's access lines within a given domain. Subscribers in a CUG can only access their own data.

(2) Ethernet Relay Service

Ethernet Relay Service (ERS) is a connection-oriented Ethernet TLS service that allows for point-to-point connectivity between customer designated locations within a LATA.

With the ERS TLS service type, each Ethernet Virtual Circuit (EVC) establishes a virtual LAN or CUG. An ERS domain is comprised of any number of virtual LANs designated by the customer to be included in the ERS domain. ERS provides point-to-point connectivity between pairs of customer's User Network Interface (UNI) port with access lines, and shared network virtual circuits within a given domain.

With the ERS TLS service type, an Ethernet Virtual Private – Local Area Network (EVP-LAN) can be established with EVP-LAN EVCs. An EVP-LAN is a multipoint Virtual LAN comprised of a CUG of two or more EVCs. EVP-LAN EVCs are designated by the Customer within an ERS Premier domain.

A customer may have more than one domain within a LATA, but connections between domains are not permitted. TLS may be used to access shared networks. In such cases, subscribers in a CUG can only access their own data.

(N)
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(N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS)(B) Service Description (Continued)

(2) Ethernet Relay Service (Continued)

Six EVC service classes are available for use with ERS service type:

- (a) ERS Standard (ERS-Std) and ERS Basic(ERS-B), and EVP-LAN Basic (EVPLAN-B): designed for customer applications that do not require a Committed Information Rate (CIR) or low delay, where CIR = 0 and Excess Information Rate (EIR) = # of Mbps of the selected ERS-Std/ERS-B or EVPLAN-B EVC service class. (C)
- (b) ERS-Priority Data (ERS-PD): designed for customer applications which do not require low delay, but require a CIR, where CIR = # of Mbps of the selected ERS-PD EVC service class and EIR = # of Mbps of the selected ERS-PD EVC service class. (C)
- (c) ERS Real Time (ERS-RT) and EVP-LAN Real Time (EVPLAN-RT): designed for customer applications which require a CIR and low delay for some portion of their traffic, where CIR = # of Mbps of the selected ERS-RT or EVPLAN-RT EVC service class and EIR = 0. EVPLAN-RT is not available for 10 GBPS UNI speed. (C)
- (d) An ERS EVC can include up to three service classes (ERS-B, ERS-PD and ERS-RT) as described above within each EVC. An EVP-LAN EVC can include one service class (either EVPLAN-B or EVPLAN-RT) as described above within each EVC. The customer will be required to identify the Basic, PD and RT Class of Service Ethernet frames by one of the following choices: setting the VLAN Class of Service (CoS) ID (for 802.1q tagged Ethernet Frames), or setting the DiffServ Code Point (DSCP) (for tagged or untagged Ethernet frames) or setting the VLAN ID (for tagged or untagged Ethernet frames), appropriately. (C)

(C) Conditions

- (1) A TLS network will be limited to central offices in a specific geographic location. Customers gain access to the shared TLS network via a switch, node or other Telephone Company equipment delivering service through a shared fiber path or network infra-structure deployed in the Customer's serving central office (TLS equipped central office), deployed in leased space near the Customer's location, or deployed at the Customer's location. At subscription, the Customer has an option of selecting standard access lines at speeds of 10 Mbps, 100 Mbps, 1000 Mbps or 10 Gbps. The 10 Gbps UNI speed is only available through the Ethernet Relay Service (ERS) Premier access line service type.
- (2) TLS is available to Customers whose serving central office is a TLS equipped central office and is located within the maximum allowable range of the serving central office. The maximum allowable fiber range is determined by the dB loss rate where the actual distance between the TLS equipped serving wire center and the Customer's location will vary based on the specifics of the transport facility used in each serving arrangement.
- (3) If the Customer's serving central office is not a TLS equipped central office, the Customer may obtain service by paying the Interoffice Mileage charge (from the customer's serving central office and the nearest TLS equipped central office) in addition to TLS access charges. The fiber dB loss cannot exceed the maximum allowable range, as specified in regulation above.

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS)

(C) Conditions (Continued)

(4) Provision of Service

The TLS service will consist of:

- a. Network Interface Device (NID) at the Customer's premises to terminate the fiber pair or other optical transport.
- b. Optical Transport from the Customer's premises to the serving central office.
- c. Network Management including fault monitoring and diagnostics, performance and network configuration applications and manual monitoring when necessary.
- d. User Network Interface (UNI) Port with Access Line Connection

UNI Port with Access Line Connections, provide connectivity between the customer premises and the serving wire center. UNI Port with Access Line connections are available as either EMS or ERS. Connectivity can be established only between or among UNI Port with Access Line Connections of the same service type. The available UNI Port with Access Line Connections are 10 Mbps, 100 Mbps, and 1000 Mbps.

For EMS service type, the customer may select a Standard Access or Protected Access Line * Connection. For ERS service type, the customer must select a Standard Access or Premier Access Line Connection. The Standard Access Line Connection only supports ERS Standard EVCs. Premier Access Line Connections support ERS Basic, ERS Priority Data, ERS Real-Time, EVPLAN-Basic and EVPLAN-Real Time EVCs. (T)
(C)
(C)

For ERS service type, the customer must select a Standard Access or Premier Access Line Connection. The Standard Access Line Connection only supports ERS Standard EVCs. Premier Access Line Connections support ERS Basic, ERS Priority Data, ERS Real-Time, EVPLAN-Basic and EVPLAN-Real Time EVCs. (C)
(C)

- e. Ethernet TLS Ethernet Virtual Circuit (EVC), where applicable.

An Ethernet TLS EVC provides point-to-point Ethernet connectivity between two UNIs, between a UNI and a shared network EVC or between a UNI and an Internet VC. Ethernet TLS EVCs are only available with ERS. The ERS Ethernet TLS EVCs are designed for customer applications that do not require bandwidth or delay guarantees. ERS Standard provides no performance guarantees.

- f. Interoffice Mileage, where applicable.

- g. Optional Features

Customer Service Management (CSM) * (T)

(5) Availability of Service

TLS will be provided seven days a week, 24 hours a day, from central offices equipped to provide this service.

ERS service, including Premier Access Lines and ERS-Std, ERS-B, ERS-PD, ERS-RT, EVPLAN-B, EVPLAN-RT EVCs, as defined in section (B)(2), will only be available from Central Offices equipped to support ERS service. (C)
(C)

* Effective February 10, 2011 CSM and Protected Access Line is grandfathered and no longer available to new Customers. Moves, additions or changes to subscribers' existing service will not be permitted. (N)
(N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLC) Continued(C) Conditions (Continued)

(10) Transmission Mode

The supported transmission mode is dependent on the access rate. The supported transmission mode for 10 Mbps access is half-duplex and full duplex. Full duplex 10 Mbps access is available only where conditions and facilities permit. The supported transmission mode for 100 Mbps, 1000 Mbps or 10 Gbps access is full duplex.

(11) TLS is available where facilities and conditions permit. Special construction charges may apply.

(D) Service Level Agreements (SLA)

Service Level Agreements (SLA) provide TLS Customers with Service Response Credits (SRC) applied to their Verizon Florida telephone bill if the Company fails to meet certain operational and network thresholds. SLAs are available at no additional charge or fee to the Customer.

A Customer is eligible for the SLA SRC given the Customer adheres to the conditions stated within this section. The SLA specifies performance criteria against which actual performance for TLS will be compared on a monthly basis.

The TLS SLA includes the following measurements:

Operational SLAs

- Mean Time to Repair (MTTR)
- Network Availability

Network Performance SLAs

- Ethernet Virtual Circuit (EVC) Class of Service (CoS) Performance
 - Data Delivery Ratio (DDR)
 - Round Trip Delay (RTD)
 - Jitter

The SLA SRC will apply to the following TLS elements:

UNI Port with Access Line Connection
Ethernet Virtual Circuit (EVC) Bandwidth, excluding EVPLAN EVCs

(C)

To receive SRCs on eligible rate elements, the Customer must have the eligible rate elements listed in its initial subscription based on the established customer of record, or have ordered the eligible rate elements subsequent to its initial subscription. The Company reserves the right to change, alter or discontinue the optional SRC plan at its discretion.

All service performance and provisioning measurements are conducted using the Company monitoring systems and procedures. The Company may change these systems and procedures at its sole discretion. In performing measurements of overall Mean Time To Repair (MTTR) and Network Availability, the Company shall include data measured throughout the territories covered by this tariff.

To receive credit, the Company must receive from the Customer a written request for credit within thirty (30) calendar days of the end of the monitoring period that the SRC is referencing. The Customer's request for credit must be submitted to the appropriate Company entity (office or interface) in a manner prescribed by Company. The request must include a list of all impacted circuit/connection identification numbers and the type of SRC requested for each circuit/connection. The SRC monitoring period is based on a calendar month.

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLC) Continued

(D) Service Level Agreements (SLA) (Cont'd)

(1) Operational Service Level Agreements (SLAs) (Cont'd)

(b) Network Availability

Network Availability refers to the percentage of time during a calendar month that the TLS is available for use by the Customer.

Network Availability Measurement

The Company threshold for Network Availability is 99.90%. Network Availability is calculated on a per TLS Port Connection basis as follows:

$$\frac{((24 \times \text{Number of Days in Month} \times \text{Number of TLS Port Connections}) - (\text{Number of Hours Out of Service during Month}))}{(24 \times \text{Number of Days in Month} \times \text{Number of TLS Port Connections})}$$

The Company will not round up the calculation to reach the 99.90% threshold. This SLA is only available for outages reported by the Customer via a trouble ticket to the Company.

Network Availability SRCs

If the overall Network Availability measurement is less than the threshold of 99.90% for a calendar month, the Company will provide a credit equal to ten percent (10%) of the associated monthly charge for an individual TLS port connection that did not meet such threshold during such a calendar month.

(2) Network Performance SLAs

Network Performance SLA applies to all Customers subscribing to an EVC Class of Service (CoS) within a local network consisting of the following types:

- ERS Real Time EVC bandwidth CoS, and
- ERS Priority Data EVC bandwidth CoS.
- All other EVCs do not qualify for Network Performance SLAs, including EVPLAN EVCs.

(C)
|
(C)

The performance SLA is hierarchical in nature and statistically-based, conformance is determined on a Met or Missed basis, first on a per-hour basis and then on a per-month conformance basis.

Per-Hour Conformance - For each hour in the month, a determination is made as to whether the performance objectives are 'Met' for the CoS attributes related to the CoS instance on a given EVC. For a given Hour (e.g., H1), the overall performance objective is 'Met' if the performance objectives for each of the Data Delivery Ratio (DDR), Round Trip Delay (RTD), and Jitter, attributes are 'Met'. If any of the attribute objectives are 'Missed', then the overall performance objective for Hour (H1) is determined to be 'Missed'.

Per-Month Conformance - For the month, a determination is made as to the percentage of hours that the overall performance objective is 'Met'. So, for a given Month (e.g., M1), the monthly performance guarantee is 'Met' if the % of hours 'Met' for the month meet or exceed the monthly objective.

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (Continued)

(E) Application of Rates and Charges

(1) The following rate elements are applicable to TLS:

- UNI Port with Access Line Connection
 - Standard Access Line
 - Protected Access Line * (T)
 - Premier Access Line
 - EMS
- Ethernet Virtual Circuit (EVC)
- Interoffice Mileage
- Domain/LAN Extension Equipment Changes
- Optional Features
 - Customer Service Management (CSM) * (T)

(a) UNI Port and Access Line

1. Standard Access Line

A monthly rate applies on a per line basis, based on the speed of the access connection (i.e., 10, Mbps, 100 Mbps or 1000 Mbps). The Standard Access Line is offered on a month to month basis, or as a three-year or five-year Term Payment Plan. A nonrecurring charge applies to the installation of the TLS Access Line provided on a month-to-month basis. Besides the standard connectivity model, Standard Access Line is offered with three other types of UNI Port with Access Line Connections, where facilities exist.

- Protected Non-Diverse
- Protected Diverse
- Protected Private

2. Protected Access Line (available for EMS Service type only) * (T)

Protected Access Lines are provisioned as a survivable service with an alternate fiber pair between the central office and the customer premises. Protected Access Line allows the Company to detect and recover a failure and move the customer's data to an alternate fiber pair in approximately one second in most instances. Both fiber pairs must be served by the same central office and must have the same access speed. The second fiber pair will be routed over a diverse fiber path when possible. A monthly rate applies on a per line basis, based on the speed of the access connection (i.e., 100 Mbps and 1000 Mbps). A nonrecurring charge will apply to the installation of a Protected Access Line provided on a month-to-month basis. Protected Access Line is only offered with a direct fiber UNI Port with Access Line Connection, where facilities exist.

* Effective February 10, 2011 CSM and Protected Access Line is grandfathered and no longer available to new Customers. Moves, additions or changes to subscribers' existing service will not be permitted. (N)
 (N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (Continued)

(E) Application of Rates and Charges (Continued)

(1) The following rate elements are applicable to TLS: (Continued)

(a) UNI Port and Access Line (Continued)

3. Premier Access Line

A monthly rate applies on a per-line basis, based on the speed of the access line (i.e., 10 MBPS, 100 MBPS, 1000 MBPS or 10 Gbps). A Premier Access Line must be purchased in conjunction with some combination of ERS-B, ERS-PD, ERS-RT EVC, EVPLAN-B and/or EVPLAN-RT service classes, which are described in section B.1. The Premier Access Line is offered on a month-to-month basis or as a 3 Year or 5 Year Term Plan. A nonrecurring charge applies to the installation of the UNI provided on a month-to-month basis. A customer can not mix Premier UNI Ports with any other UNI port type.

(C)
(C)

The percentage of each Premier Access Line UNIs allowed for EVC bandwidth is limited, where connections must comply with each of the following threshold requirements :

- ERS-B less than or = 500% of UNI Speed
- ERS-PD less than or = 85% of UNI Speed
- ERS-RT less than or = 85% of UNI Speed
- ERS-PD + ERS-RT + EVPLAN-RT less than or = 85% of UNI Speed
- ERS-B + ERS-PD + ERS-RT + EVPLAN-B less than or = 500% of UNI Speed

(C)
|
(C)

- EVPLAN-B less than or = 5000Mbps of the EVP-LAN CUG
- EVPLAN-RT less than or = 100Mbps of the EVP-LAN CUG

(N)
(N)

Besides the standard connectivity model, Premier Access Line is offered with three other types of UNI Port with Access Line Connections, where facilities exist.

- (1) Protected Non-Diverse
- (2) Protected Diverse
- (3) Protected Private

4. EMS Real Time (EMS-RT) Access Line

A monthly rate applies on a per-line basis, based on the speed of the access connection (i.e., 100 MBPS or 1000 MBPS). This enhanced service class configures a fixed portion of the UNI to be configured for Real Time Traffic, where each 100 MBPS UNI has CIR = 5 MBPS with EIR = 0 with each 1000 MBPS UNI has CIR = 20 MBPS with EIR = 0. The remainder of the UNI can be used for CIR = 0 and EIR = 0 traffic. The EMS-RT Access Line is offered on a month-to-month basis or as a 3 Year or 5 Year Term Plan. A nonrecurring charge applies to the installation of the EMS-RT Access Line provided on a month-to-month basis. A customer can not mix an EMS-RT Access Line with the ERS Service type, but may mix EMS-RT Access Line with EMS Access Lines.

Besides the standard connectivity model, EMS Real Time Access Line is offered with three other types of UNI Port with Access Line Connections, where facilities exist.

- Protected Non-Diverse
- Protected Diverse
- Protected Private

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (Continued)

(E) Application of Rates and Charges (Continued)

(1) The following rate elements are applicable to TLS: (Continued)

b. Ethernet Virtual Circuit (EVC)

For customers who order the Standard Access Line, a monthly rate will apply on a per EVC bandwidth basis. ERS Standard is the only EVC class available with the Standard Access Line. The EVC bandwidth must be equal to the bandwidth of the lowest speed of the end points it is connecting. ERS Standard EVCs are purchased on a month-to-month basis. A non-recurring setup charge will apply per ERS Standard EVC.

For customers who order the Premier Access Line, a monthly rate will apply on a service class and EVC bandwidth basis. Premier Access Line customers have the choice of combining ERS-Basic, ERS-Priority Data, ERS-Real Time, EVPLAN-Basic and/or EVPLAN-Real Time bandwidth on an EVC. A non-recurring setup charge will apply per ERS EVC. EVCs are purchased on a month-to-month basis. A customer may have more than one service class on the EVC, but will only pay one EVC non-recurring setup charge.

(C)

The number of EVCs permitted on each Standard Access Line and/or Premier Access Line are limited as follows :

- 10 Mbps less than or = 2 EVCs
- 100 Mbps less than or = 16 EVCs
- 1000 Mbps less than or = 75 EVCs.
- 10 Gbps less than or = to 250 EVCs

ERS-Basic, ERS-Priority Data, ERS-Real Time, EVPLAN-B and EVPLAN-RT EVC bandwidth is limited to a maximum Mbps per Service Class per EVC, and must comply with each of the following maximum limits :

(C)

<u>EVC Service Class</u>	<u>10 Mbps</u>	<u>100 Mbps UNI Max/EVC</u>	<u>1000 Mbps UNI Max/EVC</u>	<u>10Gbps UNI Max/EVC</u>
ERS-B or				
EVPLAN-B	10Mbps	100 Mbps	1000 Mbps	1000 Mbps
ERS-PD	5 Mbps	50 Mbps	500 Mbps	500 Mbps
ERS-RT	5 Mbps	50 Mbps	100 Mbps	100 Mbps
EVPLAN-RT	5 Mbps	50 Mbps	50 Mbps	N/A

(C)

(C)

(N)

(c) Interoffice Mileage

The Interoffice Mileage charge is based on the Per Mile charge multiplied by the distance between the Customer's serving central office and the nearest TLS equipped central office (a central office equipped with a switch, node, or other Telephone company equipment capable of delivering service, via a shared fiber path or network infra-structure). This interoffice distance is measured in airline miles, based upon latitude and longitude of each central office. The mileage measurement is calculated as specified by NECA Tariff FCC No. 4. The mileage rate applies on a per mile basis. This charge applies in addition to the applicable rates and charges for Standard Access Line, Protected Access Line or Premier Access Line. Optical Protected interoffice transport is available for the 1000M UNI speed. The protected transport option for 10/100MBPS, Protected Non-Diverse and Protected Diverse, UNI speeds includes optical protected interoffice transport when needed.

(d) Domain/LAN Extension Equipment Changes

Customer requests for changes in Domains and replacement of LAN extension equipment will be charged a nonrecurring charge per location per change.

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (Continued)(E) Application of Rates and Charges (Continued)

(1) The following rate elements are applicable to TLS: (Continued)

(e) Optional Features

(1) Customer Service Management (CSM) *

(T)

Customer Service Management (CSM) is an optional feature that provides customers with web-based reports. These reports give the customer the ability to extract "read-only" network traffic information regarding their networks thereby allowing customers to monitor and manage their network performance. CSM is provided per customer Domain/VLAN.

CSM will be provided where conditions and facilities permit.

The Company reserves the right to temporarily interrupt CSM for maintenance, software upgrades, and in emergency situations.

A monthly rate and a nonrecurring charge apply for each CSM arrangement. The customer will be charged on a per Domain/VLAN basis. The nonrecurring charge applies in addition to all other applicable service charges.

(2) Minimum Period

The minimum period for TLS under the month-to-month plan is nine months. The regulations applicable to TLS provided under a Term Payment Plan are specified in (D)(5).

(3) Term Payment Plans

The TLS Access Line is offered under a Term Payment Plan.

(4) Moves, Changes and Upgrades

When Customer requests a move or relocation of a Standard Access Line, Protected Access Line, Premier Access Line or EMS Real Time Access Line to a different address and/or building, the move or relocation will be treated as a termination of the existing service and the establishment of a new service for the application of all charges.

When the Customer requests an upgrade in service speed, or change in service type, at an existing address, the upgrade in service speed/change in service type will be treated as a termination of the existing service and the establishment of a new service for the application of all charges.

Customer requests for changes in Domains and replacement of LAN extension equipment will be charged a nonrecurring charge per location per change.

* Effective February 10, 2011 CSM and Protected Access Line is grandfathered and no longer available to new Customers. Moves, additions or changes to subscribers' existing service will not be permitted.

(N)
(N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS) (Continued)

(F) Rates and Charges (Continued)

	<u>Nonrecurring Charge¹</u>	<u>Monthly Rate</u>	
(2) Protected Access Line, per line *			(T)
Month to Month Plan			
100 Mbps	1,300.00	3,600.00	
1000 Mbps	1,300.00	6,000.00	
Three Year Plan			
100 Mbps	N/A	3,000.00	
1000 Mbps	N/A	5,200.00	
Five Year Plan			
100 Mbps	N/A	2,700.00	
1000 Mbps	N/A	4,800.00	

¹ Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs.

* Effective February 10, 2011 CSM and Protected Access Line is grandfathered and no longer available to new Customers. (N)
 Moves, additions or changes to subscribers' existing service will not be permitted. (N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS) (Continued)

(F) Rates and Charges (Continued)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	
(5) ERS and EVP-LAN Ethernet Virtual Circuit (EVC)			(C)
a. ERS EVC Setup, per EVC	\$ 200.00	N/A	
b. ERS EVC Standard (ERS-Std), per EVC			
10 Mbps	N/A	\$ 50.00	
100 Mbps	N/A	100.00	
1000 Mbps	N/A	200.00	
c. ERS EVC Basic (ERS-B) Bandwidth, per Class			
1 Mbps	N/A	15.00	
2 Mbps	N/A	30.00	
3 Mbps	N/A	45.00	
4 Mbps	N/A	60.00	
5 Mbps	N/A	75.00	
6 Mbps	N/A	90.00	
7 Mbps	N/A	105.00	
8 Mbps	N/A	120.00	
9 Mbps	N/A	135.00	
10 Mbps	N/A	150.00	
20 Mbps	N/A	300.00	
30 Mbps	N/A	450.00	
40 Mbps	N/A	600.00	
50 Mbps	N/A	750.00	
60 Mbps	N/A	850.00	
70 Mbps	N/A	950.00	
80 Mbps	N/A	1,050.00	
90 Mbps	N/A	1,150.00	
100 Mbps	N/A	1,250.00	
200 Mbps	N/A	1,350.00	
300 Mbps	N/A	1,450.00	
400 Mbps	N/A	1,550.00	
500 Mbps	N/A	1,650.00	
600 Mbps	N/A	1,740.00	
700 Mbps	N/A	1,830.00	
800 Mbps	N/A	1,920.00	
900 Mbps	N/A	2,010.00	
1000 Mbps	N/A	2,100.00	

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS) (Continued)

(F) Rates and Charges (Continued)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
(5) ERS and EVP-LAN Ethernet Virtual Circuit (EVC) (Continued)		(C)
d. ERS EVC Priority Data (ERS-PD) Bandwidth, per Class		
1 Mbps	N/A	\$ 40.00
2 Mbps	N/A	80.00
3 Mbps	N/A	120.00
4 Mbps	N/A	160.00
5 Mbps	N/A	200.00
6 Mbps	N/A	220.00
7 Mbps	N/A	240.00
8 Mbps	N/A	260.00
9 Mbps	N/A	280.00
10 Mbps	N/A	300.00
20 Mbps	N/A	600.00
30 Mbps	N/A	900.00
40 Mbps	N/A	1,200.00
50 Mbps	N/A	1,500.00
60 Mbps	N/A	1,720.00
70 Mbps	N/A	1,940.00
80 Mbps	N/A	2,100.00
90 Mbps	N/A	2,300.00
100 Mbps	N/A	2,500.00
200 Mbps	N/A	2,700.00
300 Mbps	N/A	2,900.00
400 Mbps	N/A	3,100.00
500 Mbps	N/A	3,300.00

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS) (Continued)

(F)	<u>Rates and Charges (Continued)</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	
(5)	ERS and EVP-LAN Ethernet Virtual Circuit (EVC) (Continued)			(C)
	e. ERS EVC Real Time (ERS-RT) Bandwidth, per Class			
	1 Mbps	N/A	\$ 120.00	
	2 Mbps	N/A	240.00	
	3 Mbps	N/A	360.00	
	4 Mbps	N/A	480.00	
	5 Mbps	N/A	600.00	
	6 Mbps	N/A	660.00	
	7 Mbps	N/A	720.00	
	8 Mbps	N/A	780.00	
	9 Mbps	N/A	840.00	
	10 Mbps	N/A	900.00	
	20 Mbps	N/A	1,175.00	
	30 Mbps	N/A	1,450.00	
	40 Mbps	N/A	1,725.00	
	50 Mbps	N/A	2,000.00	
	60 Mbps	N/A	2,200.00	
	70 Mbps	N/A	2,400.00	
	80 Mbps	N/A	2,600.00	
	90 Mbps	N/A	2,800.00	
	100 Mbps	N/A	3,000.00	
	f. EVP-LAN EVC Basic (EVPLAN-B) Bandwidth, per Class			(N)
	1 Mbps	N/A	\$16.00	
	2 Mbps	N/A	32.00	
	3 Mbps	N/A	48.00	
	4 Mbps	N/A	64.00	
	5 Mbps	N/A	80.00	
	6 Mbps	N/A	96.00	
	7 Mbps	N/A	112.00	
	8 Mbps	N/A	128.00	
	9 Mbps	N/A	144.00	
	10 Mbps	N/A	160.00	
	20 Mbps	N/A	315.00	
	30 Mbps	N/A	470.00	
	40 Mbps	N/A	625.00	
	50 Mbps	N/A	780.00	
	60 Mbps	N/A	885.00	
	70 Mbps	N/A	990.00	
	80 Mbps	N/A	1,095.00	
	90 Mbps	N/A	1,200.00	
	100 Mbps	N/A	1,305.00	
	200 Mbps	N/A	1,410.00	
	300 Mbps	N/A	1,515.00	
	400 Mbps	N/A	1,602.00	
	500 Mbps	N/A	1,715.00	
	600 Mbps	N/A	1,810.00	
	700 Mbps	N/A	1,905.00	(N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS) (Continued)

(F) Rates and Charges (Continued)

(5) ERS and EVP-LAN Ethernet Virtual Circuit (EVC) (Continued)

f. EVP-LAN EVC Basic (EVPLAN-B) Bandwidth, per Class (Continued)

800 Mbps	N/A	\$ 2,000.00
900 Mbps	N/A	2,095.00
1000 Mbps	N/A	2,190.00

g. EVP-LAN EVC Real Time (EVPLAN-RT) Bandwidth, per Class

1 Mbps	N/A	125.00
2 Mbps	N/A	250.00
3 Mbps	N/A	375.00
4 Mbps	N/A	500.00
5 Mbps	N/A	625.00
6 Mbps	N/A	690.00
7 Mbps	N/A	755.00
8 Mbps	N/A	820.00
9 Mbps	N/A	885.00
10 Mbps	N/A	950.00
20 Mbps	N/A	1,235.00
30 Mbps	N/A	1,520.00
40 Mbps	N/A	1,805.00
50 Mbps	N/A	2,090.00

(N)

 (N)

Nonrecurring Charge¹ Monthly Rate

(6) Interoffice Mileage, per line²

Per Mile	N/A	\$100.00
Per Optical Protected Mile (1000M Only) Protected Non-Diverse and Protected Diverse only	N/A	750.00

(T)

(7) TLS Domain/LAN, per location
Extension Equipment Changes
per change

\$ 400.00	N/A
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(T)

(8) Optional Features

(a) Customer Service
Management (CSM) *
Per Domain/VLAN

350.00	150.00
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(T)

(T)

¹ Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs.

² Applies in addition to applicable rates and charges for TLS Access Line.

* Effective February 10, 2011 CSM and Protected Access Line is grandfathered and no longer available to new Customers. Moves, additions or changes to subscribers' existing service will not be permitted.

(N)
 (N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS)(A) Definitions

In addition to the Definitions set forth in General Regulations, Section 2.6, the following definitions apply:

Domain: A Virtual Local Area Network (VLAN) or a collection of circuits that belong to one closed user group.

Gigabits per Second (Gbps): Data transfer rate for 1000 Mbps. The speed at which data is transferred through the network, where one Gigabit Per Second equals the transfer rate of one (1) billion bits of data in one (1) second.

Megabit Per Second (Mbps): The speed where data is being transferred in the network, where one Megabit Per Second equals to the transfer rate of 1 million bits of data in 1 second.

Nanometers (nm): Wavelength frequency equivalent to 1 billionth of a meter.

(B) Service Description

Transparent LAN Service (TLS) is a high speed data service which uses a shared optical transport network to allow for the interconnection of Local Area Networks (LANs) across selected metropolitan areas. TLS delivers an interface of 10 Mbps, 100 Mbps, 1000 Mbps, or 10 Gbps from the Customer's LANs to the shared network.

TLS creates a network with the ability to function as a shared public network. TLS protects data privacy by using specialized screening software that permits subscribers to access only their data.

TLS is available in two service types: Ethernet Multipoint Service (EMS) or Ethernet Relay Service (ERS). The customer must select either (EMS) or (ERS) as the service type for each domain.

(1) Ethernet Multipoint Service

Ethernet Multipoint Service (EMS) is a connection-less Ethernet TLS service that allows connectivity among multiple customer designated locations within a LATA.

With the EMS service type, Ethernet TLS protects data privacy by using closed user groups (CUGs), also known as virtual LANs. CUGs or virtual LANs are used to provide traffic separation, privacy and security between customers on the shared switch and backbone. An EMS domain is comprised of any number of access lines designated by the customer to be included in a closed user group (CUG) or virtual LAN. EMS provides multipoint-to-multipoint connectivity among all of the customer's access lines within a given domain. Subscribers in a CUG can only access their own data.

(2) Ethernet Relay Service

Ethernet Relay Service (ERS) is a connection-oriented Ethernet TLS service that allows for point-to-point connectivity between customer designated locations within a LATA.

With the ERS TLS service type, each Ethernet Virtual Circuit (EVC) establishes a virtual LAN or CUG. An ERS domain is comprised of any number of virtual LANs designated by the customer to be included in the ERS domain. ERS provides point-to-point connectivity between pairs of customer's User Network Interface (UNI) port with access lines, and shared network virtual circuits within a given domain.

With the ERS TLS service type, an Ethernet Virtual Private – Local Area Network EVP-LAN) can be established with EVP-LAN EVCs. An EVP-LAN is a multipoint Virtual LAN comprised of a CUG of two or more EVCs. EVP-LAN EVCs are designated by the Customer within an ERS Premier domain. (N)
|
(N)

A customer may have more than one domain within a LATA, but connections between domains are not permitted. TLS may be used to access shared networks. In such cases, subscribers in a CUG can only access their own data.

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS)(B) Service Description (Continued)

(2) Ethernet Relay Service (Continued)

~~Four-Six~~ EVC service classes are available for use with ERS service type: (C)

(a) ERS Standard (ERS-Std) and ERS Basic (ERS-B) and EVP-LAN Basic (EVPLAN-B): designed for customer applications that do not require a Committed Information Rate (CIR) or low delay, where CIR = 0 and Excess Information Rate (EIR) = # of Mbps of the selected ERS-Std/ERS-B or (C)
EVPLAN-B EVC service class. (C)

(b) ERS-Priority Data (ERS-PD): designed for customer applications which do not require low delay, but require a CIR, where CIR = # of Mbps of the selected ERS-PD EVC service class and EIR = # of Mbps of the selected ERS-PD EVC service class.

(c) ERS Real Time (ERS-RT) and EVP-LAN Real Time (EVPLAN-RT): designed for customer applications which require a CIR and low delay for some portion of their traffic, where CIR = # of Mbps of the selected ERS-RT or EVPLAN-RT EVC service class and EIR = 0. EVPLAN-RT is not (C)
available for 10 GBPS UNI speed. (C)

(d) An ERS EVC can include up to three service classes (ERS-B, ERS-PD and ERS-RT) as described above within each EVC. An EVP-LAN EVC can include one service class (either EVPLAN-B or (C)
EVPLAN-RT) as described above within each EVC. The customer will be required to identify the Basic, PD and RT Class of Service Ethernet frames by one of the following choices: setting the VLAN Class of Service (CoS) ID (for 802.1q tagged Ethernet Frames), or setting the DiffServ Code Point (DSCP) (for tagged or untagged Ethernet frames) or setting the VLAN ID (for tagged or untagged Ethernet frames), appropriately. (C)

(C) Conditions

(1) A TLS network will be limited to central offices in a specific geographic location. Customers gain access to the shared TLS network via a switch, node or other Telephone Company equipment delivering service through a shared fiber path or network infra-structure deployed in the Customer's serving central office (TLS equipped central office), deployed in leased space near the Customer's location, or deployed at the Customer's location. At subscription, the Customer has an option of selecting standard access lines at speeds of 10 Mbps, 100 Mbps, 1000 Mbps or 10 Gbps. The 10 Gbps UNI speed is only available through the Ethernet Relay Service (ERS) Premier access line service type.

(2) TLS is available to Customers whose serving central office is a TLS equipped central office and is located within the maximum allowable range of the serving central office. The maximum allowable fiber range is determined by the dB loss rate where the actual distance between the TLS equipped serving wire center and the Customer's location will vary based on the specifics of the transport facility used in each serving arrangement.

(3) If the Customer's serving central office is not a TLS equipped central office, the Customer may obtain service by paying the Interoffice Mileage charge (from the customer's serving central office and the nearest TLS equipped central office) in addition to TLS access charges. The fiber dB loss cannot exceed the maximum allowable range, as specified in regulation above.

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS)

(C) Conditions (Continued)

(4) Provision of Service

The TLS service will consist of:

- a. Network Interface Device (NID) at the Customer's premises to terminate the fiber pair or other optical transport.
- b. Optical Transport from the Customer's premises to the serving central office.
- c. Network Management including fault monitoring and diagnostics, performance and network configuration applications and manual monitoring when necessary.
- d. User Network Interface (UNI) Port with Access Line Connection

UNI Port with Access Line Connections, provide connectivity between the customer premises and the serving wire center. UNI Port with Access Line connections are available as either EMS or ERS. Connectivity can be established only between or among UNI Port with Access Line Connections of the same service type. The available UNI Port with Access Line Connections are 10 Mbps, 100 Mbps, and 1000 Mbps.

For EMS service type, the customer may select a Standard Access or Protected Access Line * (T)
 Connection. For ERS service type, the customer must select a Standard Access or Premier Access
 Line Connection. The Standard Access Line Connection only supports ERS Standard EVCs. Premier
 Access Line Connections support ERS Basic, ERS Priority Data and ERS Real-Time, EVPLAN-Basic (C)
and EVPLAN-Real Time EVCs. (C)

For ERS service type, the customer must select a Standard Access or Premier Access Line
 Connection. The Standard Access Line Connection only supports ERS Standard EVCs. Premier
 Access Line Connections support ERS Basic, ERS Priority Data and ERS Real-Time, EVPLAN-Basic (C)
and EVPLAN-Real Time EVCs. (C)

- e. Ethernet TLS Ethernet Virtual Circuit (EVC), where applicable.

An Ethernet TLS EVC provides point-to-point Ethernet connectivity between two UNIs, between a UNI and a shared network EVC or between a UNI and an Internet VC. Ethernet TLS EVCs are only available with ERS. The ERS Ethernet TLS EVCs are designed for customer applications that do not require bandwidth or delay guarantees. ERS Standard provides no performance guarantees.

- f. Interoffice Mileage, where applicable.
- g. Optional Features

Customer Service Management (CSM) * (T)

(5) Availability of Service

TLS will be provided seven days a week, 24 hours a day, from central offices equipped to provide this service.

ERS service, including Premier Access Lines and ERS-Std, ERS-B, ERS-PD, ERS-RT, EVPLAN-B (C)
EVPLAN-RT EVCs, as defined in section (B)(2), will only be available from Central Offices equipped to (C)
 support ERS service.

* Effective February 10, 2011 CSM and Protected Access Line is grandfathered and no longer available to new Customers. Moves, additions or changes to subscribers' existing service will not be permitted. (N)
(N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS) Continued(C) Conditions (Continued)

(10) Transmission Mode

The supported transmission mode is dependent on the access rate. The supported transmission mode for 10 Mbps access is half-duplex and full duplex. Full duplex 10 Mbps access is available only where conditions and facilities permit. The supported transmission mode for 100 Mbps, 1000 Mbps or 10 Gbps access is full duplex.

(11) TLS is available where facilities and conditions permit. Special construction charges may apply.

(D) Service Level Agreements (SLA)

Service Level Agreements (SLA) provide TLS Customers with Service Response Credits (SRC) applied to their Verizon Florida telephone bill if the Company fails to meet certain operational and network thresholds. SLAs are available at no additional charge or fee to the Customer.

A Customer is eligible for the SLA SRC given the Customer adheres to the conditions stated within this section. The SLA specifies performance criteria against which actual performance for TLS will be compared on a monthly basis.

The TLS SLA includes the following measurements:

Operational SLAs

- Mean Time to Repair (MTTR)
- Network Availability

Network Performance SLAs

- Ethernet Virtual Circuit (EVC) Class of Service (CoS) Performance
 - Data Delivery Ratio (DDR)
 - Round Trip Delay (RTD)
 - Jitter

The SLA SRC will apply to the following TLS elements:

UNI Port with Access Line Connection
Ethernet Virtual Circuit (EVC) Bandwidth, excluding EVPLAN EVCs

(C)

To receive SRCs on eligible rate elements, the Customer must have the eligible rate elements listed in its initial subscription based on the established customer of record, or have ordered the eligible rate elements subsequent to its initial subscription. The Company reserves the right to change, alter or discontinue the optional SRC plan at its discretion.

All service performance and provisioning measurements are conducted using the Company monitoring systems and procedures. The Company may change these systems and procedures at its sole discretion. In performing measurements of overall Mean Time To Repair (MTTR) and Network Availability, the Company shall include data measured throughout the territories covered by this tariff.

To receive credit, the Company must receive from the Customer a written request for credit within thirty (30) calendar days of the end of the monitoring period that the SRC is referencing. The Customer's request for credit must be submitted to the appropriate Company entity (office or interface) in a manner prescribed by Company. The request must include a list of all impacted circuit/connection identification numbers and the type of SRC requested for each circuit/connection. The SRC monitoring period is based on a calendar month.

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLC) Continued

(D) Service Level Agreements (SLA) (Cont'd)

(1) Operational Service Level Agreements (SLAs) (Cont'd)

(b) Network Availability

Network Availability refers to the percentage of time during a calendar month that the TLS is available for use by the Customer.

Network Availability Measurement

The Company threshold for Network Availability is 99.90%. Network Availability is calculated on a per TLS Port Connection basis as follows:

$$\frac{((24 \times \text{Number of Days in Month} \times \text{Number of TLS Port Connections}) - (\text{Number of Hours Out of Service during Month}))}{(24 \times \text{Number of Days in Month} \times \text{Number of TLS Port Connections})}$$

The Company will not round up the calculation to reach the 99.90% threshold. This SLA is only available for outages reported by the Customer via a trouble ticket to the Company.

Network Availability SRCs

If the overall Network Availability measurement is less than the threshold of 99.90% for a calendar month, the Company will provide a credit equal to ten percent (10%) of the associated monthly charge for an individual TLS port connection that did not meet such threshold during such a calendar month.

(2) Network Performance SLAs

Network Performance SLA applies to all Customers subscribing to an EVC Class of Service (CoS) within a local network consisting of the following types:

- ERS Real Time EVC bandwidth CoS, and
- ERS Priority Data EVC bandwidth CoS.
- All other EVCs do not qualify for Network Performance SLAs, including EVPLAN EVCs.

(C)
|
(C)

The performance SLA is hierarchical in nature and statistically-based, conformance is determined on a Met or Missed basis, first on a per-hour basis and then on a per-month conformance basis.

Per-Hour Conformance - For each hour in the month, a determination is made as to whether the performance objectives are 'Met' for the CoS attributes related to the CoS instance on a given EVC. For a given Hour (e.g., H1), the overall performance objective is 'Met' if the performance objectives for each of the Data Delivery Ratio (DDR), Round Trip Delay (RTD), and Jitter, attributes are 'Met'. If any of the attribute objectives are 'Missed', then the overall performance objective for Hour (H1) is determined to be 'Missed'.

Per-Month Conformance - For the month, a determination is made as to the percentage of hours that the overall performance objective is 'Met'. So, for a given Month (e.g., M1), the monthly performance guarantee is 'Met' if the % of hours 'Met' for the month meet or exceed the monthly objective.

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (Continued)

(E) Application of Rates and Charges

(1) The following rate elements are applicable to TLS:

- UNI Port with Access Line Connection
 - Standard Access Line
 - Protected Access Line * (I)
 - Premier Access Line
 - EMS
- Ethernet Virtual Circuit (EVC)
- Interoffice Mileage
- Domain/LAN Extension Equipment Changes
- Optional Features
 - Customer Service Management (CSM) * (I)

(a) UNI Port and Access Line

1. Standard Access Line

A monthly rate applies on a per line basis, based on the speed of the access connection (i.e., 10, Mbps, 100 Mbps or 1000 Mbps). The Standard Access Line is offered on a month to month basis, or as a three-year or five-year Term Payment Plan. A nonrecurring charge applies to the installation of the TLS Access Line provided on a month-to-month basis. Besides the standard connectivity model, Standard Access Line is offered with three other types of UNI Port with Access Line Connections, where facilities exist.

- Protected Non-Diverse
- Protected Diverse
- Protected Private

2. Protected Access Line (available for EMS Service type only) * (I)

Protected Access Lines are provisioned as a survivable service with an alternate fiber pair between the central office and the customer premises. Protected Access Line allows the Company to detect and recover a failure and move the customer's data to an alternate fiber pair in approximately one second in most instances. Both fiber pairs must be served by the same central office and must have the same access speed. The second fiber pair will be routed over a diverse fiber path when possible. A monthly rate applies on a per line basis, based on the speed of the access connection (i.e., 100 Mbps and 1000 Mbps). A nonrecurring charge will apply to the installation of a Protected Access Line provided on a month-to-month basis. Protected Access Line is only offered with a direct fiber UNI Port with Access Line Connection, where facilities exist.

* Effective February 10, 2011 CSM and Protected Access Line is grandfathered and no longer available to new Customers. Moves, additions or changes to subscribers' existing service will not be permitted. (N)
(N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (Continued)

(E) Application of Rates and Charges (Continued)

(1) The following rate elements are applicable to TLS: (Continued)

(a) UNI Port and Access Line (Continued)

3. Premier Access Line

A monthly rate applies on a per-line basis, based on the speed of the access line (i.e., 10 MBPS, 100 MBPS, 1000 MBPS or 10 Gbps). A Premier Access Line must be purchased in conjunction with some combination of ERS-B, ERS-PD, ~~and/or~~ ERS-RT EVC, EVPLAN-B ~~and/or EVPLAN-RT~~ service classes, which are described in section B.1. The Premier Access Line is offered on a month-to-month basis or as a 3 Year or 5 Year Term Plan. A nonrecurring charge applies to the installation of the UNI provided on a month-to-month basis. A customer can not mix Premier UNI Ports with any other UNI port type.

(C)
(C)

The percentage of each Premier Access Line UNIs allowed for EVC bandwidth is limited, where connections must comply with each of the following threshold requirements :

- ERS-B less than or = 500% of UNI Speed
- ERS-PD less than or = 85% of UNI Speed
- ERS-RT less than or = ~~50~~85% of UNI Speed
- ERS-PD + ERS-RT + EVPLAN-RT less than or = 85% of UNI Speed
- ERS-B + ERS-PD + ERS-RT + EVPLAN-B less than or = 500% of UNI Speed

(C)
 |
(C)

- EVPLAN-B less than or = 5000Mbps of the EVP-LAN CUG
- EVPLAN-RT less than or = 100Mbps of the EVP-LAN CUG

(N)
(N)

Besides the standard connectivity model, Premier Access Line is offered with three other types of UNI Port with Access Line Connections, where facilities exist.

- (1) Protected Non-Diverse
- (2) Protected Diverse
- (3) Protected Private

4. EMS Real Time (EMS-RT) Access Line

A monthly rate applies on a per-line basis, based on the speed of the access connection (i.e., 100 MBPS or 1000 MBPS). This enhanced service class configures a fixed portion of the UNI to be configured for Real Time Traffic, where each 100 MBPS UNI has CIR = 5 MBPS with EIR = 0 with each 1000 MBPS UNI has CIR = 20 MBPS with EIR = 0. The remainder of the UNI can be used for CIR = 0 and EIR = 0 traffic. The EMS-RT Access Line is offered on a month-to-month basis or as a 3 Year or 5 Year Term Plan. A nonrecurring charge applies to the installation of the EMS-RT Access Line provided on a month-to-month basis. A customer can not mix an EMS-RT Access Line with the ERS Service type, but may mix EMS-RT Access Line with EMS Access Lines.

Besides the standard connectivity model, EMS Real Time Access Line is offered with three other types of UNI Port with Access Line Connections, where facilities exist.

- Protected Non-Diverse
- Protected Diverse
- Protected Private

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (Continued)

(E) Application of Rates and Charges (Continued)

(1) The following rate elements are applicable to TLS: (Continued)

b. Ethernet Virtual Circuit (EVC)

For customers who order the Standard Access Line, a monthly rate will apply on a per EVC bandwidth basis. ERS Standard is the only EVC class available with the Standard Access Line. The EVC bandwidth must be equal to the bandwidth of the lowest speed of the end points it is connecting. ERS Standard EVCs are purchased on a month-to-month basis. A non-recurring setup charge will apply per ERS Standard EVC.

For customers who order the Premier Access Line, a monthly rate will apply on a service class and EVC bandwidth basis. Premier Access Line customers have the choice of combining ERS-Basic, ERS-Priority Data, ~~and/or~~ ERS-Real Time, EVPLAN-Basic and/or EVPLAN-Real Time bandwidth on an EVC. A non-recurring setup charge will apply per ERS EVC. EVCs are purchased on a month-to-month basis. A customer may have more than one service class on the EVC, but will only pay one EVC non-recurring setup charge.

(C)

The number of EVCs permitted on each Standard Access Line and/or Premier Access Line are limited as follows :

- 10 Mbps less than or = 2 EVCs
- 100 Mbps less than or = 16 EVCs
- 1000 Mbps less than or = 75 EVCs.
- 10 Gbps less than or = to 250 EVCs

ERS-Basic, ERS-Priority Data, ~~and~~ ERS-Real Time, EVPLAN-B and EVPLAN-RT EVC bandwidth is limited to a maximum Mbps per Service Class per EVC, and must comply with each of the following maximum limits :

(C)

<u>EVC Service Class</u>	<u>10 Mbps</u>	<u>100 Mbps UNI Max/EVC</u>	<u>1000 Mbps UNI Max/EVC</u>	<u>10Gbps UNI Max/EVC</u>
<u>ERS-B or</u>				
<u>EVPLAN-B</u>	<u>10Mbps</u>	100 Mbps	1000 Mbps	1000 Mbps
ERS-PD	<u>5 Mbps</u>	50 Mbps	500 Mbps	500 Mbps
ERS-RT	<u>5 Mbps</u>	50 Mbps	100 Mbps	100 Mbps
<u>EVPLAN-RT</u>	<u>5 Mbps</u>	<u>50 Mbps</u>	<u>50 Mbps</u>	<u>N/A</u>

(C)

(C)

(N)

(c) Interoffice Mileage

The Interoffice Mileage charge is based on the Per Mile charge multiplied by the distance between the Customer's serving central office and the nearest TLS equipped central office (a central office equipped with a switch, node, or other Telephone company equipment capable of delivering service, via a shared fiber path or network infra-structure). This interoffice distance is measured in airline miles, based upon latitude and longitude of each central office. The mileage measurement is calculated as specified by NECA Tariff FCC No. 4. The mileage rate applies on a per mile basis. This charge applies in addition to the applicable rates and charges for Standard Access Line, Protected Access Line or Premier Access Line. Optical Protected interoffice transport is available for the 1000M UNI speed. The protected transport option for 10/100MBPS, Protected Non-Diverse and Protected Diverse, UNI speeds includes optical protected interoffice transport when needed.

(d) Domain/LAN Extension Equipment Changes

Customer requests for changes in Domains and replacement of LAN extension equipment will be charged a nonrecurring charge per location per change.

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (Continued)(E) Application of Rates and Charges (Continued)

(1) The following rate elements are applicable to TLS: (Continued)

(e) Optional Features

(1) Customer Service Management (CSM)* (1)

Customer Service Management (CSM) is an optional feature that provides customers with web-based reports. These reports give the customer the ability to extract "read-only" network traffic information regarding their networks thereby allowing customers to monitor and manage their network performance. CSM is provided per customer Domain/VLAN.

CSM will be provided where conditions and facilities permit.

The Company reserves the right to temporarily interrupt CSM for maintenance, software upgrades, and in emergency situations.

A monthly rate and a nonrecurring charge apply for each CSM arrangement. The customer will be charged on a per Domain/VLAN basis. The nonrecurring charge applies in addition to all other applicable service charges.

(2) Minimum Period

The minimum period for TLS under the month-to-month plan is nine months. The regulations applicable to TLS provided under a Term Payment Plan are specified in (D)(5).

(3) Term Payment Plans

The TLS Access Line is offered under a Term Payment Plan.

(4) Moves, Changes and Upgrades

When Customer requests a move or relocation of a Standard Access Line, Protected Access Line, Premier Access Line or EMS Real Time Access Line to a different address and/or building, the move or relocation will be treated as a termination of the existing service and the establishment of a new service for the application of all charges.

When the Customer requests an upgrade in service speed, or change in service type, at an existing address, the upgrade in service speed/change in service type will be treated as a termination of the existing service and the establishment of a new service for the application of all charges.

Customer requests for changes in Domains and replacement of LAN extension equipment will be charged a nonrecurring charge per location per change.

* Effective February 10, 2011 CSM and Protected Access Line is grandfathered and no longer available to new Customers. Moves, additions or changes to subscribers' existing service will not be permitted. (N)
(N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS) (Continued)

(F) Rates and Charges (Continued)

	<u>Nonrecurring Charge¹</u>	<u>Monthly Rate</u>	
(2) Protected Access Line, per line *			<u>(T)</u>
Month to Month Plan			
100 Mbps	1,300.00	3,600.00	
1000 Mbps	1,300.00	6,000.00	
Three Year Plan			
100 Mbps	N/A	3,000.00	
1000 Mbps	N/A	5,200.00	
Five Year Plan			
100 Mbps	N/A	2,700.00	
1000 Mbps	N/A	4,800.00	

¹ Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs.

* Effective February 10, 2011 CSM and Protected Access Line is grandfathered and no longer available to new Customers. (N)
Moves, additions or changes to subscribers' existing service will not be permitted. (N)

~~(M) Material relocated from Page 7.~~

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS) (Continued)

(F) Rates and Charges (Continued)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
(5) ERS and EVP-LAN Ethernet Virtual Circuit (EVC) (C)		
a. ERS EVC Setup, per EVC	\$ 200.00	N/A
b. ERS EVC Standard (ERS-Std), per EVC		
10 Mbps	N/A	\$ 50.00
100 Mbps	N/A	100.00
1000 Mbps	N/A	200.00
c. ERS EVC Basic (ERS-B) Bandwidth, per Class		
1 Mbps	N/A	15.00
2 Mbps	N/A	30.00
3 Mbps	N/A	45.00
4 Mbps	N/A	60.00
5 Mbps	N/A	75.00
6 Mbps	N/A	90.00
7 Mbps	N/A	105.00
8 Mbps	N/A	120.00
9 Mbps	N/A	135.00
10 Mbps	N/A	150.00
20 Mbps	N/A	300.00
30 Mbps	N/A	450.00
40 Mbps	N/A	600.00
50 Mbps	N/A	750.00
60 Mbps	N/A	850.00
70 Mbps	N/A	950.00
80 Mbps	N/A	1,050.00
90 Mbps	N/A	1,150.00
100 Mbps	N/A	1,250.00
200 Mbps	N/A	1,350.00
300 Mbps	N/A	1,450.00
400 Mbps	N/A	1,550.00
500 Mbps	N/A	1,650.00
600 Mbps	N/A	1,740.00
700 Mbps	N/A	1,830.00
800 Mbps	N/A	1,920.00
900 Mbps	N/A	2,010.00
1000 Mbps	N/A	2,100.00

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS) (Continued)

(F) Rates and Charges (Continued)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
(5) ERS and EVP-LAN Ethernet Virtual Circuit (EVC) (Continued) (C)		
d. ERS EVC Priority Data (ERS-PD) Bandwidth, per Class		
1 Mbps	N/A	\$ 40.00
2 Mbps	N/A	80.00
3 Mbps	N/A	120.00
4 Mbps	N/A	160.00
5 Mbps	N/A	200.00
6 Mbps	N/A	220.00
7 Mbps	N/A	240.00
8 Mbps	N/A	260.00
9 Mbps	N/A	280.00
10 Mbps	N/A	300.00
20 Mbps	N/A	600.00
30 Mbps	N/A	900.00
40 Mbps	N/A	1,200.00
50 Mbps	N/A	1,500.00
60 Mbps	N/A	1,720.00
70 Mbps	N/A	1,940.00
80 Mbps	N/A	2,100.00
90 Mbps	N/A	2,300.00
100 Mbps	N/A	2,500.00
200 Mbps	N/A	2,700.00
300 Mbps	N/A	2,900.00
400 Mbps	N/A	3,100.00
500 Mbps	N/A	3,300.00

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS) (Continued)

(F) Rates and Charges (Continued)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
(5) ERS <u>and EVP-LAN</u> Ethernet Virtual Circuit (EVC) (Continued)		
e. ERS EVC Real Time (ERS-RT) Bandwidth, per Class		
1 Mbps	N/A	\$ 120.00
2 Mbps	N/A	240.00
3 Mbps	N/A	360.00
4 Mbps	N/A	480.00
5 Mbps	N/A	600.00
6 Mbps	N/A	660.00
7 Mbps	N/A	720.00
8 Mbps	N/A	780.00
9 Mbps	N/A	840.00
10 Mbps	N/A	900.00
20 Mbps	N/A	1,175.00
30 Mbps	N/A	1,450.00
40 Mbps	N/A	1,725.00
50 Mbps	N/A	2,000.00
60 Mbps	N/A	2,200.00
70 Mbps	N/A	2,400.00
80 Mbps	N/A	2,600.00
90 Mbps	N/A	2,800.00
100 Mbps	N/A	3,000.00

f. EVP-LAN EVC Basic (EVPLAN-B) Bandwidth, per Class

1 Mbps	N/A	\$16.00
2 Mbps	N/A	32.00
3 Mbps	N/A	48.00
4 Mbps	N/A	64.00
5 Mbps	N/A	80.00
6 Mbps	N/A	96.00
7 Mbps	N/A	112.00
8 Mbps	N/A	128.00
9 Mbps	N/A	144.00
10 Mbps	N/A	160.00
20 Mbps	N/A	315.00
30 Mbps	N/A	470.00
40 Mbps	N/A	625.00
50 Mbps	N/A	780.00
60 Mbps	N/A	885.00
70 Mbps	N/A	990.00
80 Mbps	N/A	1,095.00
90 Mbps	N/A	1,200.00
100 Mbps	N/A	1,305.00
200 Mbps	N/A	1,410.00
300 Mbps	N/A	1,515.00
400 Mbps	N/A	1,602.00
500 Mbps	N/A	1,715.00
600 Mbps	N/A	1,810.00
700 Mbps	N/A	1,905.00

(C)

(N)

(N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.3 Transparent LAN Service (TLS) (Continued)

(F) Rates and Charges (Continued)

~~(5)~~ ERS and EVP-LAN Ethernet Virtual Circuit (EVC) (Continued)

f. EVP-LAN EVC Basic (EVPLAN-B) Bandwidth, per Class (Continued)

800 Mbps	N/A	\$ 2,000.00
900 Mbps	N/A	2,095.00
1000 Mbps	N/A	2,190.00

g. EVP-LAN EVC Real Time (EVPLAN-RT) Bandwidth, per Class

1 Mbps	N/A	125.00
2 Mbps	N/A	250.00
3 Mbps	N/A	375.00
4 Mbps	N/A	500.00
5 Mbps	N/A	625.00
6 Mbps	N/A	690.00
7 Mbps	N/A	755.00
8 Mbps	N/A	820.00
9 Mbps	N/A	885.00
10 Mbps	N/A	950.00
20 Mbps	N/A	1,235.00
30 Mbps	N/A	1,520.00
40 Mbps	N/A	1,805.00
50 Mbps	N/A	2,090.00

(N)

(N)

Nonrecurring
Charge¹

Monthly
Rate

~~(36)~~ Interoffice Mileage, per line²

Per Mile	N/A	\$100.00
Per Optical Protected Mile (1000M Only) Protected Non-Diverse and Protected Diverse only	N/A	750.00

(T)

~~(47)~~ TLS Domain/LAN, per location
Extension Equipment Changes
per change

\$ 400.00 N/A

(T)

~~(58)~~ Optional Features

(a) Customer Service
Management (CSM) *
Per Domain/VLAN

350.00 150.00

(T)

(T)

¹ Applies in lieu of service charges found elsewhere in this Tariff or other Company Tariffs.

² Applies in addition to applicable rates and charges for TLS Access Line.

* Effective February 10, 2011 CSM and Protected Access Line is grandfathered and no longer available to new Customers. Moves, additions or changes to subscribers' existing service will not be permitted.

(N)

(N)