

WN U-23  
FRONTIER COMMUNICATIONS NORTHWEST INC.

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ADVANCED DATA SERVICES

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<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

(C)

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GENERAL REGULATIONS (Continued)

Termination Liability

Termination Liability applies to Asynchronous Transfer Mode (ATM) Cell Relay Service (CRS) in Section 6, Frame Relay Service found in Section 7 and Transparent LAN Service (TLS) <sup>1</sup> found in Section 8. (C)

In the event the service is terminated by the Customer prior to completion of the current term commitment period, the customer shall be liable for an early termination charge, except as noted below. The amount of the early termination charge will be 25% of the monthly recurring charge(s) (MRC) for the remainder of the term. For example:

$$25\% \times \text{MRC} \times \# \text{ of Lines/Channels/Paths} \times \text{Remainder of Term} = \text{Termination Charge}$$

Early termination charges will apply only to those rate elements under a term commitment period. If any rates for the service are increased during the term period, exclusive of any increase due to local, state or federal fees, taxes or surcharges, the customer may terminate the service without incurring an early termination charge.

End of Term Options

Prior to the end of the term commitment period, the customer may select one of the following options, to be effective at the end of the term:

- Renew their term commitment,
- Commit to a new term period,
- Arrange for a change of service, or
- Arrange for termination of the service.

In the event the customer does not select one of the above options, the customer will be converted to the shortest-term period available under tariff (i.e., month-to-month, etc.) for the same service, and will be subject to the applicable term commitment, if any, unless the customer terminates the service within sixty (60) days of the conversion date.

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013. (N)

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DESCRIPTION OF DATA SERVICES AND RATES

Transparent LAN Service (TLS) <sup>1</sup>

(C)

Service Description

Transparent LAN Service (TLS) is a high speed data service which uses a shared fiber 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. TLS may be used to access shared networks. In such cases, 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 Standard domain. ERS provides point-to-point connectivity between pairs of customer's access lines, Internet virtual circuits and shared network virtual circuits within a given domain.

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<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Service Description (Continued)

(2) Ethernet Relay Service (Continued)

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.

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

- (a) ERS Standard (ERS-Std) and ERS Basic (ERS-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 EVC service class.
- (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): 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 EVC service class and EIR = 0.
- (d) An ERS EVC can include up to three service classes (ERS-B, ERS-PD and ERS-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.

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Definitions

In addition to the Definitions set forth in section 2.6 of this tariff, the following definitions apply:

Domain

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

Megabit Per Second (Mbps)

The speed with which data is being transferred in the network, where one Mbps equals to the transfer rate of 1 million bits of data in 1 second.

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.

Nanometer (nm)

Wavelength frequency equivalent to 1 billionth of a meter.

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Service Provisioning

The TLS service consists of the following:

- a. Network Interface Device (NID) at the customer's premises to terminate the fiber pair.
- 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, which are available at 10 Mbps, 100 Mbps and 1000 Mbps, 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.

- 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)

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ADVANCED DATA SERVICES

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Conditions

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), or 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 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.

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.

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 in addition to TLS access charges. The dB loss cannot exceed the maximum allowable range, as specified in regulation above.

Availability of Service

TLS is available where facilities and conditions permit. Special construction charges may apply. TLS will be provided seven days a week, 24 hours a day, from central offices equipped to provide this service.

Connections

The network interface is the LAN interface on the NID device at the customer's premises. The customer is responsible for any inside wire required in connecting the LAN to the TLS equipment.

The customer is also responsible for installation, operation and maintenance of any customer-provided equipment.

The Company has the service responsibility up to and including the network interface.

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ADVANCED DATA SERVICES

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) 1 (Continued)

(C)

Conditions (Continued)

Limitations

The customer's location must be within the Maximum Allowable Range of the TLS equipped central office, as noted under Conditions in this Section.

Maintenance Window

To meet the customers' requirements, occasional network upgrades must be performed. Network upgrades are needed to provide improved performance and new features. Generally network upgrades will be performed between the hours of 11 PM and 6 AM. Network upgrades are planned to provide customers reasonable and timely notification in order to minimize any impact on the customers' service.

Technical Standards

The technical standards for TLS are delineated by the Institute of Electrical and Electronic Engineers standards for Ethernet connectivity.

Transmission Mode

The transmission mode supported 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.

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ADVANCED DATA SERVICES

DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations

The following rate elements are applicable to TLS:

UNI Port and Access Line

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 for a minimum of nine months, or as a three-year or five-year term commitment period. A nonrecurring charge applies to the installation of a Standard Access Line provided on a month-to-month basis.

Protected Access Line (available for EMS Service type only)

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, 1000 Mbps). A nonrecurring charge will apply to the installation of a Protected Access Line provided on a month-to-month basis.

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 service classes, which are described previously. 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.

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

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations

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

UNI Port and Access Line (Continued)

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.

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 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.

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.

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations

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

Ethernet Virtual Circuit (EVC) (Continued)

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 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.

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 = 10 EVCs
- 1000 Mbps less than or = 75 EVCs
- 10 Gbps less than or = 250 EVCs

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

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

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations (Continued)

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

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. This charge applies in addition to the applicable rates and charges for the TLS Access Line.

Domain/LAN Extension Equipment Changes

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

Optional Features

Customer Service Management (CSM)

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. The customer also has the ability to open trouble tickets and read updates on the trouble tickets. 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.

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations (Continued)

Minimum Period

The minimum period for TLS under the month-to-month plan is nine (9) months.

Term Commitment Period

The TLS Access Line is offered under a three- (3) or five- (5) year term commitment period. The regulations applicable to TLS provided under a term commitment period are specified in Termination Liability in this section.

Adds, Moves, Changes and Upgrades

The customer may add additional sites, which will carry their own term period. Nonrecurring charges as noted under Rates and Charges in this section are applicable to additional sites subscribed to under the month-to-month term commitment period.

A move normally involves an interruption of service for the period required to complete the move. No credit allowance will be granted for that period.

When the 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 different building, the move or relocation will be treated as a termination of the existing service and the establishment of new service for the application of all charges, including special construction or other non-standard 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, including the calculation termination liability as described on Sheet 6.1 will apply.

The customer may request a move or relocation of the TLS Access Line at the same address and/or same building.

There will be no change in the term commitment period for moves and changes in service.

Nonrecurring charges are not applicable to moves or changes in service, except those involving an equipment change, which are subject to the TLS Domain/LAN Extension Equipment Change charge.

Nonrecurring service ordering charges are not applicable to adds, moves or changes.

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations (Continued)

Termination Liability

In the event the service is terminated by the Customer prior to completion of the current term commitment period, the customer shall be liable for an early termination charge, except as noted below. The amount of the early termination charge will be 25% of the monthly recurring charge(s) (MRC) for the remainder of the term. For example:

$25\% \times \text{MRC} \times \# \text{ of Lines/Channels/Paths} \times \text{Remainder of Term} = \text{Termination Charge}$

Early termination charges will apply only to those rate elements under a term commitment period. If any rates for the service are increased during the term period, exclusive of any increase due to local, state or federal fees, taxes or surcharges, the customer may terminate the service without incurring an early termination charge.

A change in TLS service type will be considered a "change to another service" for purposes of determining Termination Liability charges.

End of Term Options

Prior to the end of the term commitment period, the customer may select one of the following options, to be effective at the end of the term:

- Renew their term commitment,
- Commit to a new term period,
- Arrange for a change of service, or
- Arrange for termination of the service.

In the event the customer does not select one of the above options, the customer will be converted to the shortest-term period available under tariff (i.e., month-to-month, etc.) for the same service, and will be subject to the applicable term commitment, if any, unless the customer terminates the service within sixty (60) days of the conversion date.

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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ADVANCED DATA SERVICES

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations (Continued)

Termination Liability (Continued)

Early termination charges will not be assessed under the following circumstances:

Customer moves existing service either to a new location within the same address and/or same building (inside move) or to a new location (outside move) and maintains that service for the remainder of the term;

Customer attempts to move the existing service to a new location within the Company's service area, but the service is unavailable;

Customer renegotiates a new term commitment plan for the same service before the current term commitment expires and the value of the new term commitment is equal to or greater than the remaining value of the current term commitment; or

Customer changes to another service class or upgrades service to a higher speed or capacity under a term commitment, provided the following conditions are met:

The value of the new term commitment is equal to or greater than the remaining value of the current term commitment,

The Company provides the new service via tariff or on an individual case basis (ICB), and

The order to discontinue the existing service and the order for the new or upgraded service are received by the Company at the same time.

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

(N)



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ADVANCED DATA SERVICES

DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations (Continued)

Service Level Agreements (SLA)

Service Level Agreements (SLA) provide TLS Customers with Service Response Credits (SRC) applied to their 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

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.

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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Original Sheet 15

ADVANCED DATA SERVICES

DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations (Continued)

Service Level Agreements (SLA) (Continued)

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 the 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.

Operational Service Level Agreements (SLAs)

Mean Time to Repair (MTTR): MTTR is the average mean time for the Company to repair Customer reported interruptions for service that is within the Company's network. A TLS service is interrupted when it becomes unusable to the Customer because of a failure of a facility component within the Company's network that is used to furnish service under this tariff.

MTTR Measurement: Under the MTTR SLA, the Company will measure the average Time to Repair (TTR) for Customer-reported interruptions in the services with respect to TLS Access Lines. To be measured under this SLA, the Customer must report any interruption to a Company-designated entity for the opening of a trouble ticket. The TTR is measured from the date and time a trouble ticket is opened by the Company and the date and time when such ticket is closed by the Company. In measuring the TTR, any stop clock time or adjusted duration time associated with the trouble shall be subtracted from such measurement. For purposes of this measurement, stop clock time refers to

- periods when Customer testing is occurring;
- periods when the Company is awaiting the Customer's authorization to commence work on a TLS Access Line;
- periods when the Company is denied access to the Customer's premises or facilities as necessary to diagnose, repair or test
- periods following a repair of a TLS Access line when the ticket is held open by the Customer to ensure the trouble is resolved and
- any time period during which any of the listed occurrences existed, as set forth in SLA Exclusions following.

The SLA shall not apply to cases of trouble where no trouble was found or repeated cases of trouble for the same interruption. The MTTR SLA shall be measured on a calendar month basis and shall be calculated by adding the TTR for all interruptions and dividing that sum by the total number of trouble tickets opened for interruptions for the Customer during that month.

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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ADVANCED DATA SERVICES

DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations (Continued)

Service Level Agreements (SLA) (Continued)

Operational Service Level Agreements (SLAs) (Continued)

Mean Time to Repair (MTTR) (Continued)

MTTR SRCs

If the MTTR is greater than four (4) hours over the calendar month, then 50% of the one month TLS Access Line monthly charge shall be given as a MTTR SRC for those Access Lines which have been out of service for longer than four (4) hours and have been reported by the Customer via a trouble ticket to the Company. The MTTR SRC credit excludes and is not applicable to scheduled maintenance, scheduled downtimes or delays resulting from an event of force majeure.

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 any individual TLS port connection that did not meet such threshold during such calendar month.

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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ADVANCED DATA SERVICES

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations (Continued)

Service Level Agreements (SLA) (Continued)

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:

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

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.

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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## ADVANCED DATA SERVICES

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations (Continued)Service Level Agreements (SLA) (Continued)Network Performance SLAs (Continued)

EVC Class of Service Network Performance SLA shall be based on the following Ethernet frame traffic criteria:

Data Delivery Ratio (DDR)

DDR is defined as the ratio of service frames successfully received from the network relative to the number of service frames offered to the network. The DDR definition is restricted to service frames that are compliant to the subscribed Committed Information Rate (CIR) profile. Interruptions caused by MTTR activity shall be excluded from the measurement of DDR.

Real Time EVC Bandwidth - Data Delivery Ratio

The Company threshold for Data Delivery Ratio is 99.5% in a calendar month.

Real Time EVC Bandwidth - Data Delivery SRCs

If the overall Data Delivery measurement does not meet the per month conformance then the Company shall provide an SRC equal to ten percent (10%) of the monthly charge for any individual EVC that did not meet such threshold during such calendar month.

Priority Data EVC Bandwidth - Data Delivery Ratio

The Company threshold for Data Delivery Ratio is 99% in a calendar month.

Priority Data EVC Bandwidth - Data Delivery SRCs

If the overall Data Delivery measurement does not meet the per month conformance then the Company shall provide an SRC equal to ten percent (10%) of the monthly charge for any individual EVC that did not meet such threshold during such calendar month.

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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## ADVANCED DATA SERVICES

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations (Continued)Service Level Agreements (SLA) (Continued)Network Performance SLAs (Continued)Round Trip Delay (RTD)

RTD is defined as the time (in milliseconds) it takes for a service frame to be sent from one UNI to another UNI and back again (includes link insertion delays, propagation delays and queuing delays in the network). The RTD calculation includes only the time the packet is in the network, i.e., the processing time spent in devices attached to the UNI are factored out of the definition. The RTD definition is restricted to service frames that are compliant to the subscribed CIR profile.

Real Time EVC Bandwidth - Delay Measurement

The Company threshold for Delay is 20 milliseconds.

Real Time EVC Bandwidth - Delay SRCs

If the overall delay measurement does not meet the per month conformance then the Company shall provide an SRC equal to ten percent (10%) of the monthly charge for any individual EVC that did not meet such threshold during such calendar month.

Priority Data EVC Bandwidth - Delay Measurement

The Company threshold for Delay is 50 milliseconds.

Priority Data EVC Bandwidth - Delay SRCs

If the overall delay measurement does not meet the per month conformance then the Company shall provide an SRC equal to ten percent (10%) of the monthly charge for any individual EVC that did not meet such threshold during such calendar month.

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

(N)

ADVANCED DATA SERVICES

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations (Continued)

Service Level Agreements (SLA) (Continued)

Network Performance SLAs (Continued)

Jitter

Jitter is defined as the variance in frame delay (in milliseconds) between two service frames as measured at the ingress and egress UNIs. The jitter definition is restricted service frames that are compliant to the subscribed CIR profile.

Real Time EVC Bandwidth - Jitter Measurement

The Company threshold for Delay is 5 milliseconds.

Real Time EVC Bandwidth - Jitter SRC

If the overall jitter measurement does not meet the per month conformance then the Company shall provide an SRC equal to ten percent (10%) of the monthly charge for any individual EVC that did not meet such threshold during such calendar month.

Validation for Operational and Network Performance SLAs

Customer Validation

Operational SLAs:

The Customer must submit in writing a list of all impacted circuit/connection identification numbers and the type of SRC requested for each circuit/connection. The written request for credit must be submitted to the appropriate Company entity in the manner prescribed by the Company in this tariff.

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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ADVANCED DATA SERVICES

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DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rate Regulations (Continued)

Service Level Agreements (SLA) (Continued)

Validation for Operational and Network Performance SLAs (Continued)

Customer Validation (Continued)

Network Performance SLAs:

The Customer must request SRCs for Network Performance SLAs and may submit in support of such request its own measurements made by industry-standard network performance measuring equipment. Such equipment shall be subject to prior approval by the Company and be capable of the following:

For the DDR SLA, the equipment must be capable of determining the number of actual packets sent and successfully received between two (2) Customer locations.

For the RTD SLA, the equipment must be capable of measuring the transmission of a series of 128-byte time-stamped packets to a measurement system from one Customer location to another Customer location. The measurement systems must be time-synchronized by using a network based timing source that uses Greenwich Mean Time (GMT).

For the Jitter SLA, the equipment must be capable of measuring the transmission of a series of at least fifty (50), 128-byte time stamped packets at a fixed interval between each packet from one Customer location to a measurement system at another Customer location. The measurement systems must be time-synchronized by using a network based timing source that uses Greenwich Mean Time (GMT).

All equipment must be capable of measuring from edge to edge (Customer Premises Equipment (CPE) to CPE) and to make the measurement every five (5) minutes per hour for four (4) hours total per day, for a total of two-hundred and forty (240) measures per day. In order to be considered, such measurements must include at least seven consecutive days' worth of measurements for four (4) hours per day.

Company Validation

The Company will research and validate the Customer-submitted SRC in accordance with its own procedures and systems. The Company may, at its discretion, use either the Customer-provided data or its own measurement data (or above mentioned formulas) to evaluate and assess whether SRCs are warranted.

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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ADVANCED DATA SERVICES

DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rates and Charges

<u>Standard Access Line, Per Line</u>	<u>Nonrecurring Charge <sup>2</sup></u>	<u>Monthly Rate</u>	(T)
Month to Month (minimum 9 months)			
10 Mbps			
Half duplex or full duplex	\$1,300.00	\$1,200.00	
100 Mbps	1,300.00	2,400.00	
1000 Mbps	1,300.00	4,000.00	
Three Year			
10 Mbps			
Half duplex or full duplex	--	1,000.00	
100 Mbps	--	2,000.00	
1000 Mbps	--	3,500.00	
Five Year			
10 Mbps			
Half duplex or full duplex	--	900.00	
100 Mbps	--	1,800.00	
1000 Mbps	--	3,200.00	

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

(N)

<sup>2</sup> Applies in lieu of services charges found elsewhere in this Tariff or other Company Tariffs.

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 Original Sheet 23

ADVANCED DATA SERVICES

DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rates and Charges (Continued)

	<u>Nonrecurring Charge <sup>2</sup></u>	<u>Monthly Rate</u>	(T)
<u>Protected Access Line, per line</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	

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

(N)

<sup>2</sup> Applies in lieu of services charges found elsewhere in this Tariff or other Company Tariffs.

(T)

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 1<sup>st</sup> Revised Sheet 24  
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 Original Sheet 24

ADVANCED DATA SERVICES

DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rates and Charges (Continued)

	<u>Nonrecurring Charge <sup>2</sup></u>	<u>Monthly Rate</u>	(T)
<u>Premier Access Line, Per Line</u>			
Month to Month Plan			
10 Mbps	\$ 1,300.00	\$ 1,075.00	
100 Mbps	\$ 1,300.00	\$ 1,200.00	
1000 Mbps	1,300.00	2,400.00	
10 Gbps	1,300.00	10,500.00	
Three Year Plan			
10 Mbps	N/A	875.00	
100 Mbps	N/A	1,000.00	
1000 Mbps	N/A	2,000.00	
10 Gbps	1,300.00	9,000.00	
Five Year Plan			
10 Mbps	N/A	775.00	
100 Mbps	N/A	900.00	
1000 Mbps	N/A	1,800.00	
10 Gbps	1,300.00	8,000.00	

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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<sup>2</sup> Applies in lieu of services charges found elsewhere in this Tariff or other Company Tariffs.

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ADVANCED DATA SERVICES

DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rates and Charges (Continued)

	<u>Nonrecurring Charge <sup>2</sup></u>	<u>Monthly Rate</u>	(T)
<u>EMS – Real Time Access Line, Per Line</u>			
Month to Month Plan			
100 Mbps	1,300.00	2,500.00	
1000 Mbps	1,300.00	4,500.00	
Three Year Plan			
100 Mbps	N/A	2,100.00	
1000 Mbps	N/A	4,000.00	
Five Year Plan			
100 Mbps	N/A	1,900.00	
1000 Mbps	N/A	3,700.00	
<u>ERS Ethernet Virtual Circuit (EVC)</u>			
ERS EVC Setup, per EVC	\$ 200.00	N/A	
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	

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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ADVANCED DATA SERVICES

DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rates and Charges (Continued)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
<u>ERS Ethernet Virtual Circuit (EVC) (Continued)</u>		
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
1,000 Mbps	N/A	2,100.00

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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ADVANCED DATA SERVICES

DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rates and Charges (Continued)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
<u>ERS Ethernet Virtual Circuit (EVC)</u> (Continued)		
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

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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ADVANCED DATA SERVICES

DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rates and Charges (Continued)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
<u>ERS Ethernet Virtual Circuit (EVC) (Continued)</u>		
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

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

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ADVANCED DATA SERVICES

DESCRIPTION OF DATA SERVICES AND RATES (Continued)

Transparent LAN Service (TLS) <sup>1</sup> (Continued)

(C)

Rates and Charges (Continued)

	<u>Nonrecurring Charge <sup>2</sup></u>	<u>Monthly Rate</u>	
<u>Interoffice Mileage, Per Line <sup>3</sup></u>			(T)
Per Mile	--	100.00	
Per Optical Protected Mile, 1000Mbps Only	--	750.00	(T)
<u>TLS Domain/LAN Extension</u>			
<u>Equipment Changes, Per Change</u>	400.00	--	
<u>Optional Features</u>			
Customer Service Management (CSM), Per Domain/VLAN	350.00	150.00	

<sup>1</sup> Offering is limited to existing customers at existing locations as of March 1, 2013.

<sup>2</sup> Applies in lieu of services charges found elsewhere in this Tariff or other Company Tariffs.

<sup>3</sup> Applies in addition to the applicable rates and charges for TLS Dedicated Access Line for service provided in a non-native serving central office.

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