

16. ADVANCED COMMUNICATIONS NETWORKS

16.4 Frame Relay Service ¹

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(A) Service Description

Frame Relay Service (FRS) is a data communications service that provides for data connectivity between/among widely distributed locations. This connectivity is provided via Permanent Virtual Circuit (PVC) connections implemented over access facilities utilizing a switch dedicated to high-speed data services.

FRS is a transport service that facilitates the exchange of variable length information units (frames) between end user connections by way of PVCs. Each frame is passed to the Frame Relay network with an address that specifies the permanent virtual circuit.

Variable frame length capability is useful in communications between asynchronous Local Area Networks (LAN) and for transport of synchronous data traffic. FRS is capable of handling the requirements of bursty data sources because of the ability of the service to allocate additional bandwidth when not in use by other sources.

In operation of FRS, Customer Premises Equipment (CPE), such as routers, encapsulate arriving data into variable length frames. These frames contain information identifying which PVC in the network should be used to forward the frame to the proper destination. The CPE then sends the frame into the Frame Relay network. The Frame Relay switch reads identifying information and routes the frame to the proper destination based on a pre-established PVC path.

The statistical multiplexing Frame Relay switches are able to provide shared network resources to end users of this service.

The Committed Information Rate (CIR) and Excess Burst Size B(e) are traffic management parameters that allow the customer to fine tune implementation of FRS.

FRS, as provided for in this tariff, is offered for intrastate use only.

¹ Effective February 15, 2013, Frame Relay Service is grandfathered and is no longer available to new customers. Existing customers may maintain their service; however, term commitment plans may not be renewed. Moves or changes to subscribers' existing service are permissible, but the term commitment per circuit will not be extended. Upon expiration of the term commitment the service will lapse into a month-to-month service arrangement.

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16.4 Frame Relay Service¹ (Continued)

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(B) Definitions

In addition to the definitions in Section 2.6 of this tariff, the following definitions apply:

Committed Information Rate (CIR) - The maximum information rate at which customer traffic will be admitted to the network without being designated eligible for discard.

Customer Designated Location (CDL) - The geographic location designated by the customer at which an access component of the customer's service is first considered to enter the Company's network.

Data Link Connection Identifier (DLCI) - The Frame Relay virtual circuit number corresponding to a particular destination which is part of the frame relay header and is usually ten bits long.

Excess Burst Size B(e) - The data rate above the Committed Information Rate (CIR), but less than the port size, at which customer data will be admitted to the Frame Relay network. All Excess Burst data B(e) admitted to the network will be designated as eligible for discard.

Frame Relay Service - A connection oriented fast packet network service that permits the transmission of data at speeds of 56 Kbps to 44.736 Mbps using Permanent Virtual Connections (PVCs).

Maximum Burst Rate (MBR) - The maximum information rate at which customer traffic will be admitted to the network. Traffic rates in excess of MBR will automatically be discarded on ingress to the network. The Maximum Burst Rate is equal to the sum of the Committed Information Rate (CIR) and Excess Burst Size B(e).

Network-to-Network Interface (NNI) - A standard interface used to connect two frame relay services, and includes elements such as bi-directional polling to assist the network services providers in gaining information on the status of the networks being connected.

User-to-Network Interface (UNI) - A standard interface used to connect the end user to the Frame Relay Service network. It receives the data frame from the customer's Local Area Network (LAN) or other customer-provided equipment (CPE) devices and verifies that the Data Link Connection Identifier (DLCI) is valid before relaying the frame to the destination end point. The DLCI is a Frame Relay term defining a 10-bit field of the address field, and it identifies data links and their service parameters.

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16.4 Frame Relay Service¹ (Continued)

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(C) Service Components

The major components of FRS are:

User-to-Network Interface (UNI) Port and Access Line Port Only

- UNI Port Only
- Private Network-to-Network (NNI) Port Only

Permanent Virtual Circuit (PVC) Committed Information Rate (CIR)

Backup UNI

Software Change Charge

- (1) User-to-Network Interface (UNI) Port and Access Line - The UNI Port and Access Line forms the component which provides the customer access to the customer's serving wire center and interoffice transport from the customer's serving wire center to the Frame Relay switch. The UNI Port and Access Line is provided for use only with FRS and where facilities and conditions permit.
- (2) Port Only - Customers may access Port Only connections via Company-provided digital access facilities or via facilities provided by another carrier. The channel speed of the access channel must be sufficient to accommodate the Frame Relay port speed. When access facilities are provided by the Company, the associated regulations, rates and charges under the appropriate Company tariff shall apply in addition to the regulations, rates and charges associated with FRS. Company-provided access facilities may also be provisioned on an Individual Case Basis (ICB) where access facilities are not generally available under the applicable tariff. Interconnection charges to connect access line services provided by the Company or another carrier may apply and will be billed separately. Any special construction or nonstandard charges assessed by the carrier supplying the access facilities will be the responsibility of the customer.
 - (a) UNI Port Only - The UNI Port Only provides for a user to carrier connection (i.e., end user customer to the Company).
 - (b) Private Network-to-Network (NNI) Port Only - The Private NNI port configuration is used for connecting two networks together for bi-directional messaging and is available on a private basis only. A Private NNI is a NNI port sold for the exclusive use of the customer.

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16.4 Frame Relay Service¹ (Continued)

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(C) Service Components (Continued)

(3) Permanent Virtual Circuit (PVC) Committed Information Rate (CIR)

- (a) Permanent Virtual Circuits (PVCs) are logical circuits that define a specific path for data sent by the customer to another location. These circuits are virtual because they are established in software tables and do not tie up capacity when not in use. This also allows multiple paths (PVCs) to be defined on any given port, thereby providing a single access line the capability to transmit data to multiple destinations.
- (b) Since multiple PVCs may be defined on one physical port, it is possible for the cumulative Committed Information Rates (CIRs) to exceed the physical bandwidth of that port. This is referred to as over-subscription and when this occurs, the aggregate CIR defined for that port and PVC will not be available at any point in time.
- (c) The following types of PVC CIR are available:
 - (i) Intrazone - An Intrazone PVC is a logical channel path between two customer Frame Relay ports within the same zone. Frame Relay zones are found in K(1)(e) following.
 - (ii) Multi-jurisdictional - A Multi-jurisdictional PVC is a logical channel path between two customer Frame Relay ports, one being an interstate port and the other an intrastate port both located within the same Frame Relay zone. A Multi-jurisdictional PVC falls under federal jurisdiction and the PVC CIR rates, rules and regulations from the Company's FCC Frame Relay tariff are applicable.

(4) PVC CIR Optional Features

Frame Relay to ATM Service Interworking – Frame Relay to ATM Service Interworking provides for the conversion of Frame Relay packets to ATM cells and the conversion of ATM cells to Frame Relay Packets. Frame Relay to ATM Service Interworking is available with Intrazone and Multi-jurisdictional PVC CIR at no additional charge.

(5) Backup UNI Service

Backup UNI service is a disaster avoidance and disaster recovery feature that consists of a Primary UNI and a Backup UNI, and incorporates PVC remapping capabilities of the Frame Relay network. The Primary UNI is terminated at the primary customer host location and in normal operation serves PVCs between the primary host location and various customer remote locations. A second UNI, which is designated by the customer as a Backup UNI, is installed and terminated at the customer's backup host location. During normal operations no PVCs are mapped to the Backup UNI. The customer will be required to purchase both UNIs. In the event of a Primary UNI, primary digital access line or, customer primary host location failure, the predefined PVC configuration can be remapped to the Backup UNI at the customer's request. Upon restoral of the Primary UNI service the customer must contact the Company to initiate remapping of PVCs from the Backup UNI back to the Primary UNI. A Backup UNI, which may serve as a backup to one or more Primary UNIs, can only backup one Primary UNI at a time. A Backup UNI must be the same port speed or greater than the Primary UNI(s).

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(D) Technical Specifications

FRS conforms to the transmission specification standards in the following references:

ANSI T1.602 Integrated Services Digital Network (ISDN) – Data Link Layer Signaling Specification for Application at the User-Network Interface – Issued 1989.

ANSI T1.606 Frame Relay Bearer Service, Architectural Framework and Service Description – Issued 1990.

ANSI T1.617 Integrated Services Digital Network (ISDN) – Digital Subscriber Signaling Specification for Frame Relay Bearer Service – Issued 1991.

ANSI T1.618 Integrated Services Digital Network (ISDN) – Core Aspects of Frame Relay Bearer Service – Issued 1991.

(E) Service Provisioning

FRS is available where facilities and conditions permit.

FRS is provided to the customer in the form of the UNI Port and Access Line, UNI Port Only, Private NNI Port Only and CIR based PVCs. The UNI Port and Access Line forms the local access component to the customer's serving central office. The UNI Port Only and Private NNI Port Only include the electronic equipment necessary to interface the access line to the Frame Relay switch.

PVCs are provisioned on a specified speed and CIR basis, depending upon the customer's request. The actual throughput of aggregated PVC bandwidths in use at the same time on the same port cannot exceed the port speed.

The maximum CIR allowed is determined by the lower of the two port speeds connected by the PVC. The maximum CIR allowed for port speeds at 1.536 Mbps and below is 75% of the lower of the two port speeds. For port speeds above 1.536 Mbps to 44.7136 Mbps, the maximum CIR allowed is 50% of the lower of the two port speeds.

The PVC must be associated with at least one Frame Relay port. A Frame Relay port can be associated with multiple PVCs.

The customer subscribing to a Port Only or Port and Access Line will be referred to as the controller of the Frame Relay port. A separate entity may, with written authorization from the controller, subscribe to a PVC that allows communication between entities. A disconnect of a PVC does not result in the disconnect of the underlying access line and port. Only the controller may order the disconnect of the FRS.

The Frame Relay port with PVC CIR capacity may be ordered and billed separately from an associated Frame Relay port and PVC, and can have different customers as controllers.

4 Mbps, 6 Mbps, 10 Mbps and 22 Mbps speeds are provisioned utilizing 44.736 Mbps of transport bandwidth; no other service(s) may utilize the remaining bandwidth.

(F) Special Conditions

Maintenance Window - Occasionally, in order to perform software updates and other maintenance, it may be necessary to take the Frame Relay switch out of service, during the predetermined maintenance window of 11:00p.m. to 8:00 a.m. In these cases, all attempts will be made to notify the customer in advance as to the time and duration of these outages. The Company reserves the right to temporarily interrupt the FRS at other times in emergency situations.

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16.4 Frame Relay Service¹ (Continued)

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(G) Obligations of the Customer

Where FRS is available for use in connection with communications systems or equipment provided by a customer or user, the operating characteristics of such systems or equipment shall be such as not to interfere with any services offered by the Company. Such use is subject to the further provisions that the equipment provided by the customer or user does not endanger the safety of the Company's employees or the public; damage, harm, require change in or alteration of the equipment or other services of the Company; interfere with the proper operation of the Company's equipment or otherwise injure the public in its use of the Company's services. Upon notice from the Company that the equipment provided by the customer or user is causing, or is likely to cause, such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference.

The customer, upon request, shall furnish such information as may be required to permit the Company to design and maintain the FRS it offers and to assure that the service arrangement is in compliance with the regulations contained herein.

It shall be the responsibility of the customer to ensure the continuing compatibility of the customer-provided equipment that is used in conjunction with the FRS. The CPE shall be in compliance with the rules and regulations specified in this tariff.

The customer shall be responsible for obtaining permission for the Company's agents or employees to enter the premises of the customer at any reasonable hour for the purpose of installing, inspecting, repairing, or, upon termination of the service, removing the service components of the Company.

At service subscription, the customer must specify the CIR and is expected to provide the DLCI and the B(e) for each PVC ordered.

Error correction is the responsibility of the customer's terminal equipment and/or applications. If the FRS network experience congestion or failures, customer data may be discarded. In addition, frames that are received in excess of the Maximum Burst Rate (MBR), with bad addresses, or other errors will be discarded on ingress to the network. The customer's Frame Relay terminal equipment has the responsibility for retransmitting frames that are discarded due to errors or network congestion.

The customer is responsible for provisioning the inside wire from the network interface to the Frame Relay compatible equipment.

A customer ordering Backup UNI service is responsible for the following:

- Determining network configuration before and after the activation of Backup UNI service.
- Providing the Company with the appropriate information required for joint development of the Backup UNI database.
- Maintaining its own port configurations and router tables (for seamless changes from the Primary UNI to the Backup UNI, the customer must use the same addressing scheme on routers connected to the primary and backup sites).
- Contacting the Company to request all activation's and deactivations of Backup UNI service.

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16. ADVANCED COMMUNICATIONS NETWORKS

16.4 Frame Relay Service¹ (Continued)

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(H) Obligations of the Company

The responsibility of the Company shall be limited to furnishing network equipment suitable for FRS and to the maintenance and operation of such equipment in a manner proper for such service. Subject to this responsibility, the Company shall not be responsible for the through transmission of signals generated by the customer-provided equipment or system, or for the quality of, or defects in, such transmission or the reception of signals by such equipment or systems.

The Company shall not be responsible for installation, operation or maintenance of any terminal equipment, data unit or communications system provided by a customer or user. The Company is not responsible for adapting FRS to the technological requirements of any specific customer equipment.

When a customer orders FRS which is relayed to Frame Relay networks of other carriers, the Company will provide advisory assistance as a part of the establishment of this service.

The Company shall not be responsible to the customer or user if changes in any of the equipment, operations or procedures of the Company used in the provision of FRS render any facilities provided by the customer or user obsolete or require modification or alteration of such equipment or system or otherwise affect its use or performance, provided the Company has met any applicable information disclosure requirements otherwise required by law.

The Company undertakes the responsibility to maintain and repair the service that it furnishes. Network equipment installed by the Company on the customer's premises shall be and remain the property of the Company. The customer or user may not rearrange, disconnect, remove, attempt to repair, remote test, or interface with any network equipment installed by the Company without prior written consent by the Company.

The Company, by written notice to the customer, may immediately discontinue the furnishing of FRS without incurring liability upon nonpayment of any sum due to the Company or a violation of any condition governing the furnishing of service.

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

(I) Special Facilities Routing - The customer may request that the facilities used to provide FRS be specially routed. Additional charges will apply based on cost.

(J) Acceptance Testing - At the customer's request, the Company will cooperatively test at the time of installation at no additional charge. Acceptance tests will include tests for the parameters applicable to the service as specified in the order for service.

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16. ADVANCED COMMUNICATIONS NETWORKS

16.4 Frame Relay Service ¹ (Continued)

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(K) Application of Rates and Charges(1) Rate Elements

The following rate elements are applicable to FRS:

UNI Port and Access Line
 Port Only
 - UNI Port Only
 - Private NNI Port Only
 PVC CIR
 Subsequent PVC CIR Charge
 Backup UNI
 Software Change Charge

(a) UNI Port and Access Line

A monthly recurring charge based on the speed of the port connection applies per port for each physical connection to the network supporting FRS. In addition, a nonrecurring charge applies to the month-to-month plan. Nonrecurring charges do not apply to UNI Port and Access Line offered on a Term Payment Plan (TPP). UNI Port and Access Line is offered on a month-to-month basis or as a TPP of one year, three years, or five years.

(b) Port Only – UNI Port Only and Private NNI Port Only

A monthly recurring charge based on the speed of the port connection applies per port for each Port Only interface. In addition, a nonrecurring charge applies to the month-to-month plan. Nonrecurring charges do not apply to Port Only offered on a TPP. Port Only is offered on a month-to-month basis or as a TPP of one year, three years, or five years.

Refer to 16.4(C)(2) for the rules and regulations associated with Port Only digital access facilities.

(c) Permanent Virtual Circuit (PVC) Committed Information Rate (CIR)

- (i) Intrazone - A monthly recurring charge, based on CIR capacity, applies for each PVC requested by the customer. Frame Relay zones are found in (e) following.
- (ii) Multi-jurisdictional - A Multi-jurisdictional PVC falls under federal jurisdiction and the PVC CIR rates, rules and regulations from the Company's FCC Frame Relay tariff are applicable.

(d) PVC CIR Optional Features

Frame Relay to ATM Service Interworking – Frame Relay to ATM Service Interworking is available with Intrazone and Multi-jurisdictional PVC CIR at no additional charge.

(e) Subsequent PVC CIR Charge – A nonrecurring charge applies when a customer orders additional PVC CIR subsequent to the initial port installation.

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16. ADVANCED COMMUNICATIONS NETWORKS

16.4 Frame Relay Service ¹ (Continued)

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(K) Application of Rates and Charges (Continued)

(1) Rate Elements (Continued)

(f) Frame Relay Zones

<u>Zone</u>	<u>Office</u>
Tampa	Clearwater
	Lakeland
	Sarasota
	St. Petersburg
	Sulphur Springs
	Tampa - Main
	Tampa – Westside
	Tampa – East

(g) Backup UNI

A nonrecurring charge applies when a customer requests an activation of the Backup UNI service. No additional charges are applied upon deactivation of Backup UNI service.

(h) Software Change Charge is an NRC applied when a customer requests a PVC parameter change (i.e., CIR burst, DLCI re-map to a different host or remote).

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16.4 Frame Relay Service ¹ (Continued) (T)

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

(2) Service Charges

Unless otherwise stated in this tariff, nonrecurring charges applicable to FRS are in lieu of service charges found elsewhere in this tariff or other Company tariffs. However, miscellaneous order modification charges may be applicable.

(3) Minimum Period

The minimum period for FRS is one month except when the customer subscribes to a TPP. When PVCs are added to existing FRS, the minimum period for the PVC is one month.

(4) Term Payment Plan (TPP)

(a) The UNI Port and Access Line, UNI Port Only and Private NNI Port Only rate elements are available under a TPP. PVC CIRs are not offered under a TPP.

(b) Payment periods of one-year, three-years and five-years are available to all customers at the applicable rates set forth in 16.4(L) following, regardless of when they subscribe to a TPP arrangement.

(c) Changes to a TPP period

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

- No credit toward the new payment period will be given for payments made under the original TPP arrangement.
- Nonrecurring charges will not be reapplied for existing service(s).
- If the value of the new TPP is less than the remaining value of current TPP, the change to the new TPP period constitutes a disconnect of the existing TPP service and termination liability ² charges as set forth in Section 2.8 of this tariff will apply.

Conversion to a different TPP or to a month-to-month option will require the customer to submit an order. If no other changes are requested, no nonrecurring charges will apply.

(d) Termination Liability ²

In the event FRS is terminated by the customer prior to completion of the initial term commitment period, Termination Liability Charges, as set forth in Section 2.8 of this tariff, will apply.

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² Effective February 15, 2013, Termination Liability will not apply to Frame Relay Service.

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16.4 Frame Relay Service ¹ (Continued)

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

(5) Service Rearrangements

(a) Additions to Service

- (i) With the exception of PVCs, when service elements are added to an existing service, the added elements must meet the minimum period requirements associated with the service to which they are added. When PVCs are added to an existing FRS, the minimum period for the added PVCs is one month.
- (ii) Nonrecurring charges will apply for all additions to existing services or optional features for which nonrecurring charges normally apply at installation.
- (iii) Related monthly rates and nonrecurring charges for addition(s) to service are the rate and charges in effect at the time of the addition(s).

(b) Administrative Changes

Administrative changes to existing service will be made without charge(s) to the customer. Administrative changes may include but are not limited to the following:

- Change of customer name, i.e., the customer or record does not change but rather the customer of record changes its name, e.g., XYZ Company to XYZ Communications;
 - Change of customer premises address when the change of address is not a result of a physical relocation of facilities;
 - Change in billing data (name, address, or contact name or telephone number); and,
 - Change of customer contact name or telephone number.
- (c) Conversion of service to another jurisdiction will be treated as a disconnect of service and establishment of new service. However, if no other changes are ordered, no installation charges will apply.
- (d) Moves

When the customer requests a move or relocation of the UNI Port and Access Line, UNI Port Only or Private NNI Port Only, the move or relocation will be treated as a termination of the existing service and the establishment of a new service.

(e) Upgrade to Higher Speed Service

The customer may elect to upgrade service(s) to a higher speed during a TPP period, subject to the following conditions:

- Both the existing and the new service are provided solely by the Company.
- The order to discontinue service at an existing speed or capacity and the order for the upgraded service are received by the Company at the same time.
- The new service will be provided at the same customer location as the discontinued service.

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16.4 Frame Relay Service ³ (Continued)

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(L) Rates and Charges

	Nonrecurring Charge ¹	Monthly Rate
(1) UNI Port and Access Line, each		
56 Kbps		
Month-to-Month	\$495.00	\$ 206.00
One Year	0.00	200.00
Three Years	0.00	188.00
Five Years	0.00	169.00
128 Kbps		
Month-to-Month	495.00	303.00
One Year	0.00	290.00
Three Years	0.00	273.00
Five Years	0.00	242.00
256 Kbps		
Month-to-Month	595.00	424.00
One Year	0.00	406.00
Three Years	0.00	382.00
Five Years	0.00	351.00
384 Kbps		
Month-to-Month	595.00	503.00
One Year	0.00	479.00
Three Years	0.00	448.00
Five Years	0.00	411.00
DS1 (1.536 Mbps) ²		
Month-to-Month	595.00	714.00
One Year	0.00	678.00
Three Years	0.00	636.00
Five Years	0.00	581.00

¹ Applies in lieu of service charges found elsewhere in this tariff or other Company tariffs.

² Promotional rates may apply. See Section 2.7, Special Promotions – Frame Relay DS1 OPP Discount.

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16.4 Frame Relay Service ² (Continued)

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(L) Rates and Charges (Continued)

	Nonrecurring Charge ¹	Monthly Rate
(1) UNI Port and Access Line, each (Continued)		
4 Mbps		
Month-to-Month	\$795.00	\$ 4,417.00
One Year	0.00	4,296.00
Three Years	0.00	4,175.00
Five Years	0.00	4,054.00
6 Mbps		
Month-to-Month	795.00	4,477.00
One Year	0.00	4,356.00
Three Years	0.00	4,235.00
Five Years	0.00	4,114.00
10 Mbps		
Month-to-Month	795.00	4,598.00
One Year	0.00	4,477.00
Three Years	0.00	4,356.00
Five Years	0.00	4,235.00
22 Mbps		
Month-to-Month	795.00	4,719.00
One Year	0.00	4,598.00
Three Years	0.00	4,477.00
Five Years	0.00	4,356.00
44.736 Mbps		
Month-to-Month	795.00	5,082.00
One Year	0.00	4,961.00
Three Years	0.00	4,719.00
Five Years	0.00	4,598.00

¹ Applies in lieu of service charges found elsewhere in this tariff or other Company tariffs.

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16.4 Frame Relay Service ³(Continued)

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(L) Rates and Charges (Continued)

	Nonrecurring Charge ¹	Monthly Rate
(2) Port Only		
(a) UNI Port Only ² , each		
56 Kbps		
Month-to-Month	\$ 95.00	\$ 61.00
One Year	0.00	58.00
Three Years	0.00	51.00
Five Years	0.00	45.00
128 Kbps		
Month-to-Month	150.00	107.00
One Year	0.00	101.00
Three Years	0.00	94.00
Five Years	0.00	83.00
256 Kbps		
Month-to-Month	150.00	167.00
One Year	0.00	160.00
Three Years	0.00	152.00
Five Years	0.00	140.00
384 Kbps		
Month-to-Month	150.00	212.00
One Year	0.00	204.00
Three Years	0.00	189.00
Five Years	0.00	172.00
DS1 (1.536 Mbps)		
Month-to-Month	295.00	327.00
One Year	0.00	315.00
Three Years	0.00	297.00
Five Years	0.00	276.00

¹ Applies in lieu of service charges found elsewhere in this tariff or other Company tariffs.

² Refer to 16.4(C)(2) for the regulations associated with Port Only digital access facilities.

³ Effective February 15, 2013, Frame Relay Service is grandfathered and is no longer available to new customers. Existing customers may maintain their service; however, term commitment plans may not be renewed. Moves or changes to subscribers' existing service are permissible, but the term commitment per circuit will not be extended. Upon expiration of the term commitment the service will lapse into a month-to-month service arrangement.

(N)
 |
 (N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.4 Frame Relay Service ³ (Continued)

(T)

(L) Rates and Charges (Cont'd)

	Nonrecurring Charge ¹	Monthly Rate
(2) Port Only (Cont'd)		
(a) UNI Port Only ² , each (Cont'd)		
4 Mbps		
Month-to-Month	\$ 395.00	\$ 878.00
One Year	0.00	842.00
Three Years	0.00	799.00
Five Years	0.00	762.00
6 Mbps		
Month-to-Month	395.00	908.00
One Year	0.00	871.00
Three Years	0.00	829.00
Five Years	0.00	787.00
10 Mbps		
Month-to-Month	395.00	938.00
One Year	0.00	908.00
Three Years	0.00	866.00
Five Years	0.00	817.00
22 Mbps		
Month-to-Month	395.00	999.00
One Year	0.00	956.00
Three Years	0.00	908.00
Five Years	0.00	847.00
DS3 (44.736 Mbps)		
Month-to-Month	395.00	1,210.00
One Year	0.00	1,120.00
Three Years	0.00	999.00
Five Years	0.00	878.00

¹ Applies in lieu of service charges found elsewhere in this tariff or other Company tariffs.

² Refer to 16.4(C)(2) for the regulations associated with Port Only digital access facilities.

³ Effective February 15, 2013, Frame Relay Service is grandfathered and is no longer available to new customers. Existing customers may maintain their service; however, term commitment plans may not be renewed. Moves or changes to subscribers' existing service are permissible, but the term commitment per circuit will not be extended. Upon expiration of the term commitment the service will lapse into a month-to-month service arrangement.

(N)
 |
 (N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.4 Frame Relay Service ³ (Continued)

(T)

(L) Rates and Charges (Cont'd)

	Nonrecurring Charge ¹	Monthly Rate
(2) Port Only (Cont'd)		
(b) Private NNI Port Only ² , each		
384 Kbps		
Month-to-Month	\$ 150.00	\$ 212.00
One Year	0.00	204.00
Three Years	0.00	189.00
Five Years	0.00	172.00
DS1 (1.536 Mbps)		
Month-to-Month	295.00	327.00
One Year	0.00	315.00
Three Years	0.00	297.00
Five Years	0.00	276.00
DS3 (44.736Mbps)		
Month-to-Month	395.00	1,210.00
One Year	0.00	1,120.00
Three Years	0.00	999.00
Five Years	0.00	878.00

¹ Applies in lieu of service charges found elsewhere in this tariff or other Company tariffs.

² Refer to 16.4(C)(2) for the regulations associated with Port Only digital access facilities.

³ Effective February 15, 2013, Frame Relay Service is grandfathered and is no longer available to new customers. Existing customers may maintain their service; however, term commitment plans may not be renewed. Moves or changes to subscribers' existing service are permissible, but the term commitment per circuit will not be extended. Upon expiration of the term commitment the service will lapse into a month-to-month service arrangement.

(N)
 |
 (N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.4 Frame Relay Service ¹ (Continued)

(T)

(L) Rates and Charges (Cont'd)

(3) PVC CIR , per PVC

(a) Intrazone	Monthly Rate
4 Kbps	\$ 5.00
8 Kbps	7.00
16 Kbps	8.00
28 Kbps	9.00
32 Kbps	10.00
42 Kbps	13.00
48 Kbps	15.00
64 Kbps	19.00
96 Kbps	26.00
128 Kbps	33.00
192 Kbps	44.00
256 Kbps	51.00
288 Kbps	58.00
384 Kbps	65.00
512 Kbps	73.00
576 Kbps	79.00
768 Kbps	85.00
1152 Kbps	97.00
1536 Kbps	109.00

¹ Effective February 15, 2013, Frame Relay Service is grandfathered and is no longer available to new customers. Existing customers may maintain their service; however, term commitment plans may not be renewed. Moves or changes to subscribers' existing service are permissible, but the term commitment per circuit will not be extended. Upon expiration of the term commitment the service will lapse into a month-to-month service arrangement.

(N)
 |
 (N)

16. ADVANCED COMMUNICATIONS NETWORKS

16.4 Frame Relay Service ³ (Continued)

(T)

(L) Rates and Charges (Continued)

(3) PVC CIR , per PVC (Continued)

(a) Intrazone (Continued)	Monthly Rate
2 Mbps	116.00
3 Mbps	121.00
4 Mbps	145.00
5 Mbps	172.00
6 Mbps	198.00
7 Mbps	226.00
8 Mbps	251.00
9 Mbps	277.00
10 Mbps	303.00
11 Mbps	322.00
12 Mbps	341.00
13 Mbps	361.00
14 Mbps	380.00
15 Mbps	399.00
16 Mbps	419.00
17 Mbps	438.00
18 Mbps	458.00
19 Mbps	476.00
20 Mbps	496.00
21 Mbps	516.00
22 Mbps	535.00

(b) Multi-jurisdictional PVC ¹

(c) Frame Relay to ATM Service Interworking No Charge

	Nonrecurring Charge ²
(4) Subsequent PVC CIR Charge, each	\$ 20.00
(5) Backup UNI, Per Activation	200.00
(6) Software Change Charge	30.00

¹ A Multi-jurisdictional PVC falls under federal jurisdiction and the PVC CIR rates, rules and regulations from the Company's FCC Frame Relay tariff are applicable.

² Applies in lieu of service charges found elsewhere in this tariff or other Company tariffs.

³ Effective February 15, 2013, Frame Relay Service is grandfathered and is no longer available to new customers. Existing customers may maintain their service; however, term commitment plans may not be renewed. Moves or changes to subscribers' existing service are permissible, but the term commitment per circuit will not be extended. Upon expiration of the term commitment the service will lapse into a month-to-month service arrangement.

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