

ISSUED: OCTOBER 21, 2011

EFFECTIVE: NOVEMBER 5, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

The Telephone Company will provide two types of Fast Packet Access Services: Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) as described in Section 21.2 following and BellSouth Managed Shared Frame Relay Service (MSFRS) as described in 21.3 following. Switch locations supporting Fast Packet Access Services are as specified in the National Exchange Carrier Association (N.E.C.A.) Tariff F.C.C. No. 4.

Effective November 5, 2011, Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) as described in Section 21.2, following, and BellSouth Managed Shared Frame Relay Service (MSFRS) as described in 21.3, following, will no longer be available to new Customers. Existing term plan Customers, as of November 5, 2011, may add, move, remove or change lines and/or locations for the durations of their current term plan agreements, but may not enter into any new term plan agreements. Existing Customers will be permitted one extension of any existing, non-expired term plan agreement past its current term for twelve (12) months, provided the extension is signed on or before March 31, 2012. Upon expiration of any term plan agreement (including any permitted extension), service will continue on a month-to-month basis until the service is discontinued by the Telephone Company.

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ACCESS SERVICE

21 - Fast Packet Access Services

21.1 Application Testing

The purpose of an application test is to determine the appropriateness of that specific service(s) for that specific application prior to the customer placing a firm order for such service(s). The Telephone Company will provide a limited amount of such service(s) subject to conditions specified in 21.1.1 A-21.1.1 E following. Such service is to be utilized in an initial application test with a customer for no longer than 90 days (except as specifically stated otherwise in 21.1.1 E) from the date of installation. The following services are eligible for application testing: Exchange Access Frame Relay Service and Managed Shared Frame Relay Service.

- A. Services to be provided in an application test are subject to the availability of facilities and equipment as determined by the Telephone Company. The Telephone Company makes no warranties with respect to the performance of certain services for any and all possible customer applications which may utilize these services.
- B. Application testing is available on a one time per application basis. Only customers whose current interstate monthly billing from this tariff is equal to or greater than \$500,000 are eligible to participate in Application Testing. Before Application Testing can begin, customers must execute an Application Testing Enrollment Form.
- C. Services that are utilized in an application test with a customer may be provided credits during the application test period subject to the following maximum limits per customer per application test.
  1. The cumulative monthly recurring charge credits issued for the entire application test period per customer may not exceed the maximum limit of \$10,600.
  2. The cumulative credits issued for nonrecurring charges for the entire application test period per customer may not exceed the maximum limit of \$10,000.

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EFFECTIVE: JULY 1, 2011

## ACCESS SERVICE

### 21 - Fast Packet Access Services

#### 21.1 Application Testing (Cont'd)

- D. Such service is provided for the specific purpose of conducting an application test with a customer and is not intended to be utilized as a substitute for temporary service.
1. Upon completion of the application test where the customer determines that the performance of the services utilized are unacceptable for the application, the application test service will be removed without charge to the customer.
  2. Upon completion of the application test where the customer determines that the performance of the services utilized are acceptable for the application and no changes to the test service configuration are required, the customer will be billed the appropriate charges for the test service and monthly billing will begin at the time.<sup>1</sup>
  3. Upon completion of the application test where the customer determines that the performance of the services utilized are acceptable for the application, however, the test service configuration must be changed, the customer shall be responsible for both the appropriate nonrecurring charges for the application test service plus all appropriate charges for the rearrangement of the service. Monthly billing shall begin for the rearranged service.<sup>1</sup>
- E. The Telephone Company may, at its discretion, extend the application testing period due to the following conditions: 1) Delay in provisioning of applicable test circuits due to circumstances beyond reasonable control (natural disasters, work stoppage, war, etc.), or 2) Technical problems encountered during the application testing period with either the Telephony Company or Customer equipment.
1. The per application test credits applicable for an application testing period including an extension shall still be limited to those set forth in 21.1.1 C. (i.e., no additional credits are provided as a result of the extension).

Note 1: Any additional service requested to be installed upon completion of the application test shall be subject to standard tariff nonrecurring charges and rates set forth in each service tariff.

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ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)

21.2.1 General Description

Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) is a connection oriented packet-switched data service allowing for the interconnection of local area networks (LANS) or other compatible customer equipment. This service provides efficient throughput at various transmission speeds.

XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) allows for the transfer of variable length frames (packets). Frames are relayed by virtual connections; frames travel a fixed path through the network although bandwidth is not dedicated to each virtual connection.

This service uses permanent virtual circuits (PVCs). A PVC is a logical channel from one XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) network interface to another XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) network interface. PVCs are end-to-end, bi-directional channels. PVCs are established either by the Company via the service provisioning process or by the customer using optional Customer Configuration Management Capability described in 21.2.9.(B)(6).

The XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) standard specifies an address field called the Data Link Connection Identifier (DLCI). The DLCI specifies a connection. A Standard PVC is created via the mapping of two Standard DLCIs; on an optional basis, features are available to allow the creation of Priority PVCs.

XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) is comprised of a network interface component plus optional features. Connection to XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) network interfaces may be accomplished through dedicated access. For interstate dedicated access, rates, charges, and regulations for Special Access (a.k.a. BellSouth SPA) Services are specified in Section 7 preceding. Only non-channelized bandwidth may terminate on an XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) network interface.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.1 General Description (Cont'd)

There are two network interfaces available - a user network interface (UNI) and a network-to-network interface (NNI).

The user network interface (UNI) is a standard interface used to connect the customer to the XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) network. It receives the data frame from the customer's network or device and verifies that the DLCI is valid before relaying the frame to the destination. The UNI is offered at transmission speeds of 56 Kbps, 64 Kbps, 112 Kbps, 128 Kbps and 192 Kbps.

The network-to-network interface (NNI) specifies how an XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) switch sends and receives data from another provider's Frame Relay switch. The NNI is offered at transmission speeds of 56 Kbps, 64 Kbps, 112 Kbps, 128 Kbps and 192 Kbps.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.1 General Description (Cont'd)

Additionally, Back-Up UNI and Back-Up NNI network interfaces are available to be utilized to provide Back-Up capability on an optional basis. Manual Back-Up Capability and Automatic Back-Up Capability provide the ability to have a back-up logical port configured to meet a customer's needs in the event that the customer's primary connection is disabled. Manual Back-Up is available at transmission speeds of 56 Kbps and 64 Kbps. Automatic Back-Up is available at transmission speeds of 56 Kbps and 64 Kbps. Connection to a Back-Up Network Interface is accomplished through dedicated access; for interstate dedicated access, rates, charges and regulations for Special Access (a.k.a. BellSouth SPA) Services are specified in Section 7 preceding. Both the Back-Up Network Interface and its associated transport are specifically dedicated to providing back-up service and remain idle except when being utilized for back-up purposes.

The customer must prearrange with the Company which Network Interface(s) may have their traffic redirected to a specific Back-Up Network Interface so that the necessary work is done by the Company which is required prior to back-up capability being possible. A Network Interface thus identified which may have its traffic redirected in the event of its failure is referred to as a back-up enabled primary Network Interface, or referred to herein as simply the primary Network Interface. A Network Interface which is not enabled to work with a Back-Up, is referred to as a standard Network Interface.

A primary Network Interface may have only one Back-Up Network Interface identified. For Manual Back-Up Capability, a Back-up Network Interface may serve as the back-up for more than one primary Network Interface. For Automatic Back-Up Capability, a Back-up Network Interface may serve as the back-up for only one primary Network Interface.

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ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.1 General Description (Cont'd)

The customer(s) involved in a back-up arrangement must provide the appropriate information on 1) which Back-Up Network Interface operates with each primary Network Interface and 2) who has the authority to request the traffic to be redirected from the primary Network Interface to the Back-Up Network Interface (and vice versa).

Manual Back-Up Capability is manually activated by the Company when the authorized contact identified by the customer requests service from the primary Network Interface to be redirected to its pre-identified Back-Up Network Interface. (All DLCIs associated with the primary Network Interface are rerouted to the Back-Up Network Interface.) At the direction of the authorized contact identified by the customer, the Company subsequently then redirects traffic from the Back-Up Network Interface to the primary Network Interface.

Automatic Back-Up Capability automatically initiates the transfer of virtual circuits from the primary Network Interface to the specified Back-Up Interface in the event the integrity fails on the primary Network Interface. Once the primary Network Interface is restored, at the direction of the authorized contact identified by the customer, the Company will subsequently redirect traffic from the Back-Up Network Interface to the primary Network Interface. If the primary Network Interface is recovered and a failure occurs on the Back-Up Network Interface before the customer requests the switchover back to the primary Network Interface, Automatic Back-Up Capability will automatically move the virtual circuits to the primary Network Interface.

A primary Network Interface that is a UNI can only be associated with a UNI Back-Up. A primary Network Interface that is an NNI can only be associated with an NNI Back-Up.

The Manual Back-Up Network Interface may or may not be in the same switch node as the primary Network Interface. For diversity, the Manual Back-Up Network Interface will be on a separate card.

The Automatic Back-Up Network Interface must be in the same switch node as the primary Network Interface. For diversity, the Automatic Back-Up Network Interface will be on a separate card.

For Manual Back-Up Capability and Automatic Back-Up Capability, it is strongly recommended that the size of the Back-Up Network Interface must be the same size as the customer's largest primary Network Interface. In the event that the customer chooses to utilize a Back-Up Network Interface that is a lower speed than the primary Network Interface, the Company cannot guarantee the sufficiency of the Back-Up Network Interface to protect the customer's primary data. There exists the realistic possibility that due to the lower amount of physical bandwidth on the Back-Up Network Interface, not all of the customer's virtual circuits will be provisioned to the Back-Up Network Interface. Network congestion may be encountered which may result in packets of data being discarded or entire locations without access to Back-Up Capability.

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ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.2 Service Description

(1) Installation of Service

Nonrecurring charges apply to each UNI or NNI on each XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) installed, except as set forth in 21.2.8 following.

Nonrecurring charges for the Network Interface elements are set forth in 21.2.10(A) following.

(2) Installation of Optional Features

Nonrecurring charges apply to the installation of optional features as set forth in 21.2.10(B) following.

(3) Service Rearrangements

Service rearrangements are changes to existing (installed) services which do not result in a change in the minimum period requirements as set forth in 5.6(E) preceding. Changes which result in the establishment of new minimum period obligations are treated as disconnects and starts. A change which results from a transfer of service is described and charged as set forth in (4) and 21.1.10(D) following.

- (a) Requests for PVC rearrangements may result in the service being unavailable during the time that such rearrangements are performed/provisioned by the Telephone Company.

Customer requests for PVC rearrangements that are submitted with a due date, specified worktime (in Eastern Time), contact name and contact phone number will be performed on the due date at the time requested by the customer.

Customer requests for PVC rearrangements that are submitted with a due date but without the specified worktime (in Eastern Time), contact name and contact phone number will be performed on the due date plus one day, between Midnight and 4:00 A.M. Eastern Time.

(This page filed under Transmittal No. 1 )



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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.2 Service Description (Cont'd)

(3) Service Rearrangements (Cont'd)

- (b) Requests for an existing XAFRS service to be rearranged to utilize a different XAFRS switch (e.g., to allow the customer to order features/functions not technically available out of the current XAFRS switch) will result in the service being unavailable during the time that such rearrangement activity is performed/provisioned by the Telephone Company; this time will not be considered as down time for SLA Network Availability purposes.

Following are the appropriate charges for such a service rearrangement:

- When the XAFRS Network Interface is requested to be provisioned off another XAFRS switch in the same Telephone Company Central Office as the existing switch being used, no nonrecurring charges shall be applicable.
- When the XAFRS Network Interface is requested to be provisioned off another XAFRS switch in a different Telephone Company Central Office from the existing switch being used, the request shall be treated as a disconnect of the existing service. The service requested to be provided out of the new switch located in a different Telephone Company Central Office shall be treated as a new connect with full nonrecurring charges being applicable.

(4) Transfer of Service

When a change in billing data (e.g., name, address, contract name, or telephone number) is requested in association with a change in the customer's record, transfer of service charges, as set forth in 21.2.10(D) following will apply. Charges are applied on a Billing Account Number (BAN).

(This page filed under Transmittal No. 1 )

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.2 Service Description (Cont'd)

(5) Maintenance

In order to maintain the quality of XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service), the Telephone Company reserves the right to perform preventive maintenance and software updates to the network. This could result in XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) being unavailable during the time period between 12:00 midnight and 6:00 A.M. Eastern Time seven days a week in all states. The Telephone Company only expects to utilize this maintenance window for any given switch on the average of once a quarter. However, the Telephone Company reserves the right to perform maintenance at any time at its discretion that it believes such maintenance is necessary. The Telephone Company will make a reasonable effort to provide notice to those customers likely to be affected by such maintenance work.

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.2 Service Description (Cont'd)

(6) Service Level Agreements

Service Level Agreements (SLAs) provide the Company's service level commitments for specific aspects of its Frame Relay network's performance. SLAs are only provided for customers with at least ten Frame Relay UNIs and or NNIs. Such customers must also subscribe to BellSouth CNM-NVS (specifically CNM-NVS Fault Management, On Demand Statistics and Performance Reports) which is the primary monitoring and reporting tool used for determining performance results and missed commitments.

SLA commitments only apply for service wholly within Company territory; SLA commitments will not apply for service which is part of a jointly provided service.

- (a) SLA commitments are provided for Network Availability, Network Transit Delay and Frame Delivery Rate.
- (b) SLA credits are provided for missed commitments, except as specified otherwise in (c) and (d) following. An SLA report is provided through the CNM-NVS system that provides details of missed commitments upon which credits will be issued; the SLA report is available on a calendar month basis. Credits are automatically issued based upon the end-of-month SLA report; such credits shall only be issued once a month. The Company's calculation of its performance through the CNM-NVS system shall be the sole determinate of the Company's obligation to provide a credit for a missed performance commitment as set forth in this tariff.
- (c) SLA credits for missed commitments do not apply when any commitment is not met because the Company does not have control over the circumstances causing the commitment to be missed. Situations over which the Company does not have control can be defined as, but not limited to the following:
  - any act, any omission or negligence on the part of the customer, any other customer or any third party, or of any other entity providing a portion of the service,
  - labor difficulties, governmental orders, civil commotions, acts of civil or military authority, embargoes, epidemics, declared National Emergencies, criminal actions against the Company, war, terrorist acts, riots, insurrections, fires, explosions, nuclear accidents, power blackouts, acts of God (including, but not limited to, earthquakes, floods or unusually severe weather conditions) or other circumstances beyond the Company's control,

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.2 Service Description (Cont'd)

(6) Service Level Agreements (Cont'd)

(c) (Cont'd)

- the customer's premises equipment,
- unavailability of the customer's facilities and/or equipment, and
- customer oversubscription of the UNI/NNI beyond 200% (i.e., the sum of the total CIR of all PVCs carried by any UNI or NNI may not be greater than 200% of the UNI/NNI Network Interface speed).

(d) SLA credits for missed commitments do not apply for situations when the customer's service is out of operation as a result of 1) scheduled maintenance windows as set forth in 21.1.2(5) preceding and 2) customer requests for rearrangements which resulted in that service being unavailable as set forth in 21.2.2(3)(a) and (b) preceding. Time from such activity does not count towards the time a service is considered as unavailable during a calendar month for purposes of measuring for the Network Availability SLA.

(e) Service Level Commitments

SLA commitments for the specific aspects of the Frame Relay network's performance set forth in (a) preceding are measured on a specific calendar month basis. The specific network performance commitments provided and how their performance is measured through the NVS system for a calendar month are as follows:

(1) Network Availability Commitment: 99.9%

- The Network Availability commitment is provided on the customer's total Frame Relay network. Network Availability will measure the percentage of time during a calendar month that the customer's Frame Relay network is available.
- Network availability will be measured through the CNM-NVS system for the customer's total Frame Relay network and for each individual Frame Relay UNI/NNI for a whole calendar month.
- For the purpose of measuring Network Availability, times during which a Frame Relay UNI/NNI is out of operation in association with maintenance windows (as set forth in 21.2.2(5)) and in association with situations over which the Company does not have control (as set forth in 21.2.2(6)(c)) are counted as "available" time.

(This page filed under Transmittal No. 1 )

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.2 Service Description (Cont'd)

(6) Service Level Agreements (Cont'd)

(e) Service Level Commitments (Cont'd)

(1) Network Availability Commitment: 99.9% (Cont'd)

- Total Frame Relay Network - Network Availability: Network Availability for the customer's total network is calculated by subtracting the total unavailable time for all the Frame Relay UNI/NNIs in a specific total calendar month, from the total available time for all the Frame Relay UNI/NNIs in that specific total calendar month, and then dividing the difference by the total available time for all the Frame Relay UNI/NNIs in that specific total calendar month. If the resulting percentage is less than 99.9%, the commitment for Network Availability has been missed; the SLA Network Availability credit will then be issued on any Frame Relay UNI/NNI whose specific individual Network Availability measurement is below 99.9%.
- Individual Frame Relay UNI/NNI - Network Availability: Network Availability for an individual Frame Relay UNI/NNI is calculated by first subtracting the unavailable time from the total available time for a specific calendar month, and then dividing it by the total available time for that specific calendar month. If the Network Availability SLA commitment was missed on the customer's total network and the resulting percentage for a specific individual Frame Relay UNI/NNI is less than 99.9%, the SLA Network Availability credit set forth in 21.2.2(6)(f)(1) will then be issued on that specific individual Frame Relay UNI/NNI.

(2) Network Transit Delay Commitment: 60 milliseconds, one-way

- The Network Transit Delay commitment is provided for each individual PVC within the customer's Frame Relay network.
- Through the CNM-NVS System, Network Transit Delay will measure the average one-way transit time of a specific PVC's frames through the network within a specific calendar month. The transit time for each frame transmitted is measured from the originating Frame Relay UNI/NNI to the terminating Frame Relay UNI/NNI. The measurement for the Network Transit Delay commitment is the average transit time of a frame for a PVC, based upon all the frames transmitted for that PVC during that specific calendar month.

(This page filed under Transmittal No. 1 )

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.2 Service Description (Cont'd)

(6) Service Level Agreements (Cont'd)

(e) Service Level Commitments

(2) Network Transit Delay Commitment: 60 milliseconds, one-way (Cont'd)

- The average monthly Network Transit Delay for a PVC will be determined by dividing the sum of the actual transit time of each frame sent via the PVC that month by the total frames transmitted in that specific calendar month. If the resulting average transit time per frame for that PVC is greater than 60 milliseconds (one-way), the commitment has been missed for that PVC and the Network Transit Delay Credit set forth in 21.2.2(6)(f)(2) will then be issued on this Frame Relay PVC.

(3) Frame Delivery Rate Commitment: 99.9%

- The Frame Delivery Rate commitment is provided for each Frame Relay PVC that has a CIR of greater than 32 Kbps.
- Through the NVS System, Frame Delivery Rate will measure the percentage of frames successfully delivered for a PVC. The Frame Delivery Rate measures the quantity of frames transmitted versus quantity of frames received during a specific calendar month between the two Frame Relay UNI/NNI's forming the PVC (i.e., the difference in frames transmitted versus received are considered "dropped").
- The monthly Frame Delivery Rate for a qualifying PVC in a specific calendar month is determined by subtracting the total frames dropped from the total frames transmitted, divided by the total frames transmitted. If the resulting percentage representing the percent of frames delivered for that PVC is less than 99.9%, this commitment has been missed and the Frame Delivery Rate credit set forth in 21.2.2(6)(f)(3) will then be issued on this Frame Relay PVC.

(This page filed under Transmittal No. 1 )

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.2 Service Description (Cont'd)

(6) Service Level Agreements (Cont'd)

(f) Credits for Missed SLA Commitments

The following credits are provided for SLA performance commitments missed during a calendar month subject to the conditions outlined herein 21.2.2(6).

Total SLA credits issued for an individual Frame Relay UNI/NNI in a specific calendar month cannot exceed the total monthly recurring charges billed for that Frame Relay UNI/NNI (i.e., cannot exceed the sum of the monthly billing for the XAFRS Network Interface rate element plus any rate elements for features).

(1) Network Availability SLA Credit<sup>1</sup>:

- This credit is appropriate when the Network Availability commitment for the customer's total network is missed; this credit is then applied per individual Frame Relay UNI/NNI that does not specifically meet the Network Availability commitment.
- For each individual Frame Relay UNI/NNI not meeting this commitment for a specific calendar month, a credit equal to 1/30 of its monthly recurring charge for the XAFRS Network Interface rate element will be issued.

(2) Network Transit Delay SLA Credit<sup>1</sup>:

- This credit is applied per individual Frame Relay PVC (i.e., a DLCI pair forming the PVC) that does not meet the Network Transit Delay commitment.
- For each PVC not meeting this commitment for a specific calendar month, a credit equal to \$3.00 for the affected DLCI pair will be issued.

Note 1: This credit will be reduced by the applicable Fast Packet Savings Plan (FSP) discount if the customer has an FSP agreement.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.2 Service Description (Cont'd)

(6) Service Level Agreements (Cont'd)

(f) Credits for Missed SLA Commitments (Cont'd)

(3) Frame Delivery Rate SLA Credit<sup>(1)</sup>:

- This credit is applied per individual Frame Relay PVC (i.e., a DLCI pair forming the PVC) that does not meet the Frame Delivery Rate commitment.
- For each PVC not meeting this commitment for a specific calendar month, credits for the affected DLCI pair will be issued as follows:

. Recurring Charge Credit Per DLCI pair:	\$	3.00
. Recurring CIR Credit per DLCI pair:		
0 Bps CIR	\$	0.00
>0-32 Kbps CIR		6.30
>32-56 Kbps CIR		10.80
>56-64 Kbps CIR		11.70
>64-128 Kbps CIR		16.20
>128-256 Kbps CIR		21.60

<sup>(1)</sup> This credit will be reduced by the applicable Fast Packet Savings Plan (FSP) discount if the customer has an FSP agreement.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.3 Technical Specifications

The provision of Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) requires the applicable network interface component. In addition, the customers may add optional features. Each of the components of the service are described in this Section.

All services installed after the effective date of this tariff will conform to the transmission specification standards in the following references:

- UNI specifications for XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) are:

ANSI T1.617-1991, "Integrated Services Digital Network (ISDN) - Digital Subscriber Signaling System No. 1 (DSS1) - Signaling Specification for Frame Relay Service", American National Standards Institute, and ANSI T1.618-1991, "Integrated Services Digital Network (ISDN) - Core Aspects of Frame Relay Bearer Service", American National Standards Institute.

Document No. 001-208966, "Frame Relay Specification with Extension Based on Proposed T1S1 Standards", Digital Equipment Corporation, Northern Telecom, Inc., and StrataCom, Inc.

All UNI access facilities must be in conformance with ANSI standards T1.617-1991, T1.618-1991.

- NNI specifications for XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) are:

Frame Relay Forum Document FRF.2, Frame Relay Network-to-Network Phase 1 Implementation Agreement.

All NNI access facilities must be in conformance with ANSI standards and Bellcore Technical Reference TS-TSV-001370.

- Performance specifications and service details for XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) are provided in: BellSouth Technical Reference 73587, "Frame Relay Service Interface and Performance Specifications".

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.4 Interface Specifications

The following specifications are available with this service:

Digital packet (UNI)  
Digital packet (NNI)

21.2.5 Acceptance Testing

At no additional charge, and at the customer's request, the Telephone Company will cooperatively test at the time of installation.

21.2.6 Ordering Options and Conditions

The Access Order, as set forth in Section 5 preceding, is used in the provisioning of Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service). Also included in that section are other charges which may be associated with ordering XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) (e.g., Service Date Change Charges, Cancellation Charges, etc.).

21.2.7 Minimum Period of Service

The minimum period is one month.

21.2.8 Rate Regulations

Rates and charges are specified in 21.2.10 following for Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service). XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) is available under the Fast Packet Services Payment Plan (SPP) as specified in 2.4.8(C) preceding.

Unless specified otherwise, Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) is available for use with the Fast Packet Savings Plan subject to the regulations provided in 2.4.8(F) preceding.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service (Cont'd)

21.2.8 Rate Regulations (Cont'd)

A. Promotion - Regional InterLATA PVC Extension

For the promotional period beginning October 1, 2006, and ending December 31, 2006, customers who subscribe to the Regional InterLATA PVC Extension optional feature will have all nonrecurring charges associated with the optional feature waived, subject to the following conditions:

- All orders for the Regional InterLATA PVC Extension must have an Application Date that falls within the promotional period above.
- A minimum service period of six (6) months is required for the Regional InterLATA PVC Extension ordered under this promotion. If the customer disconnects the Regional InterLATA PVC Extension prior to the 6 months minimum service period, the customer must repay the credits received under this promotion and such amount will be billed to the customer within ninety (90) days of the disconnect date.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.9 Rate Categories

The following rate categories apply to XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service):

(A) Network Interface

This rate category provides for the customer's termination on the Fast Packet switch. The Network Interface rate category includes the packet switching function. A recurring rate and nonrecurring charge is provided in 21.2.10 following for each transmission speed of standard or primary Network interface (both UNI and NNI) and Back-Up Network Interface (both UNI and NNI).

A nonrecurring Primary Network Interface Enablement/Change Charge provided in 21.1.10 following is applicable: 1) per existing standard Network Interface requested to be converted to a primary Network Interface (i.e., to be back-up enabled), 2) per existing primary Network Interface requested to be converted to a standard Network Interface (i.e., to disable the capability to be used with a Back-Up Network Interface), and 3) per existing primary Network Interface requested to be reassigned to work with a different Back-Up Network Interface. The Primary Network Interface Enablement/Change Charge shall only be applied when the customer provides the appropriate information on all of the service orders required such that all orders involved can be related and worked together. Failure by the customer(s) to provide adequate information to allow the orders to be appropriately related together will result in the billing of such orders as individual disconnects and new connects.

A customer request to convert a standard or primary Network Interface to a Back-Up Network Interface (or vice versa) shall be treated as a disconnect and new connect.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.9 Rate Categories (Cont'd)

(B) Optional Features

The Optional Features rate category provides for optional features that may be added to XAFRS (a.k.a. BellSouth Exchange Access Frame Relay Service) to improve its quality or utility to meet specific communications requirements.

(1) DLCIs per UNI or NNI

This feature provides for the assignment of Data Link Channel Identifiers (DLCIs) per UNI or NNI. One DLCI is required per UNI or NNI. When any two DLCIs are mapped together, a PVC can be created. On an optional basis, a single PVC may also be created via the mapping of a DLCI and an ATM Service PVC Segment.

One Initial DLCI is applicable when DLCIs are ordered at the same time as the installation of a UNI or NNI. Only one "Initial" DLCI (either one Initial Standard DLCI or one Initial Priority DLCI) is allowed per UNI or NNI. Additional DLCIs (beyond this initial DLCI) ordered with the installation of the UNI or NNI and any DLCIs ordered subsequent to the installation of the UNI or NNI are considered Additional DLCIs. A DLCI which is not a Priority DLCI, as discussed following, is referred to as a Standard DLCI.

Priority PVC capability allows a customer to differentiate specific PVCs with regard to the importance of the data within those PVCs as compared to other PVCs. In the case of contention or network congestion, the network will give precedence to the frames of a Priority PVC over frames of a Standard PVC. XAFRS (a.k.a., BellSouth Exchange Access Frame Relay service) allows the creation of Priority PVCs. Such a Priority PVC is formed by the mapping of two Priority DLCIs (as set forth in 21.2.10(B)); these Priority DLCIs must have an associated CIR value of greater than zero. A request to convert an existing Standard PVC to a Priority PVC (or vice versa) shall be considered as a request to disconnect the existing DLCIs and as a request to connect the new DLCIs.

Individual DLCI charges are not applicable to the standard configurable DLCIs provided within a Configurable DLCI Bundle associated with optional CNM-Customer Configuration Management Capability described in 21.2.9.(B)(6) following. Configurable DLCIs are considered as additional standard DLCIs.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.9 Rate Categories (Cont'd)

(B) Optional Features (Cont'd)

(2) Committed Information Rate (CIR)

Committed Information Rate is a feature that enables the customer to select a sustained throughput under normal conditions. A CIR must be selected for each DLCI.

A standard CIR rate element is applicable per DLCI<sup>1</sup> when it is to be mapped to another DLCI to form a single PVC.

A Frame Relay to ATM Network Interworking CIR rate element is applicable per DLCI when it is to be mapped to an ATM Service PVC Segment to form a single Frame Relay to ATM Network Interworking PVC. The mapping of a DLCI to an ATM PVC Segment is permitted on a per PVC basis. The Frame Relay data is essentially encapsulated in an ATM Service bit stream and retrieved by the ATM customer's CPE as Frame Relay. Associated rates and charges for the related ATM Service apply as usual from the appropriate ATM Service tariff. Only Frame Relay DLCIs and ATM PVC Segments of a comparable quality of service can be mapped together to form a single PVC; the specific combinations of Frame Relay DLCIs and ATM PVC Segments permitted to be mapped together are as follows:

Frame Relay DLCI:

ATM PVC Segment<sup>2</sup>:

-Non-priority with 0 CIR	and	UBR
-Non-priority with >0 CIR	and	VBR-NRT
-Priority with >0 CIR	and	VBR-RT

The rate elements for standard CIR with a value greater than zero and all Frame Relay to ATM Network Interworking CIR have a separate charge. The CIR value selected cannot exceed the minimum transmission speed of the XAFRS Network Interface at either end of the PVC. (The Frame Relay network's burst capability and discard eligible feature are described in TR 73587.)

The CIR value of Priority DLCIs must be greater than zero.

Note 1: Not applicable to the standard configurable DLCIs provided within a Configurable DLCI Bundle (which include CIR of up to 64 Kbps per configurable DLCI) associated with optional Customer Configuration Management Capability.

Note 2: Due to technical limitations a mapping combination involving an ATM CBR PVC Segment is not possible.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.9 Rate Categories (Cont'd)

(B) Optional Features (Cont'd)

(3) MultiCast PVC

MultiCast PVC capability allows a customer to establish a one-to-many broadcasting PVC that distributes data simultaneously from a host site to a group of predetermined remote sites (called a MultiCast PVC Group). Transmission on a MultiCast PVC is unidirectional (from the host to the remotes in each MultiCast PVC Group). All sites in a MultiCast PVC Group will be able to simultaneously receive a single packet transmission transmitted from the host; upon transmission from the host, the Frame Relay network replicates and distributes the packets to the various remote sites identified as members of the MultiCast PVC Group. A MultiCast PVC may be established as a Standard MultiCast PVC or a Priority MultiCast PVC (refer to description of Priority PVC capability discussed in 21.2.9(B)(1) preceding).

To create a MultiCast PVC, the customer must have established individual PVCs between the Network Interface of the host site and each Network Interface of each remote site that is to be a member of that specific MultiCast PVC Group. Standard tariff charges apply for the establishment of the DLCIs, CIR, etc. associated with these member PVCs. While these standard PVCs will be identified as members of a MultiCast PVC Group (and as such receive the unidirectional broadcast transmission from the host site), each individual PVC is still a bi-directional PVC capable of being used by the host site and remote site to communicate independently of the MultiCast PVC Group.

The customer shall provide a unique DLCI number to be used to identify each MultiCast PVC Group associated with a host site; this unique DLCI number will be used in establishing the MultiCast PVC and shall be utilized on an ongoing basis to refer to that specific MultiCast PVC when requesting any subsequent change activity to the associated MultiCast PVC Group. A host site can have more than one MultiCast PVC. A remote site can be a part of multiple MultiCast PVC Groups associated with the same or multiple other host site(s).

Each MultiCast PVC Group shall be established as a Standard MultiCast PVC Group or a Priority MultiCast PVC Group. A Standard MultiCast PVC Group shall be comprised of member PVCs established utilizing all Standard DLCIs; while not specifically required, it is strongly recommended that each member PVC in a Standard MultiCast PVC have DLCIs with an associated CIR value of greater than zero. A Priority MultiCast PVC Group shall be comprised of member PVCs established utilizing all Priority DLCIs; each member PVC in a Priority MultiCast PVC is required to have Priority DLCIs with an associated CIR value of greater than zero.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.9 Rate Categories (Cont'd)

(B) Optional Features (Cont'd)

(4) Intelligent PVC

Intelligent PVC capability allows automatic rerouting on a per PVC basis within the Frame Relay Service network. The Intelligent PVC feature is associated with a customer-specified three DLCI PVC. With the Intelligent PVC feature, a PVC is established between an originating DLCI (referred to as the pivot endpoint) and a primary terminating DLCI (referred to as the primary endpoint). Frames from the originating DLCI (pivot endpoint) will automatically be rerouted to a secondary terminating DLCI (referred to as the secondary endpoint) if the Frame Relay switch detects trouble associated with the primary terminating DLCI (primary endpoint). After such rerouting, the Frame Relay switch will continue to monitor the signals from the primary endpoint and when the trouble is cleared, will automatically reroute the frames going to the secondary endpoint back to the primary endpoint. The BellSouth document TR-73587 provides more detailed technical information on how Intelligent PVC capability is provided.

To create an Intelligent PVC, the customer requests the mapping of three DLCIs. An Intelligent PVC may be comprised of three Standard DLCIs or three Priority DLCIs. One Intelligent PVC Charge (a recurring rate) applies per customer-specified arrangement of three DLCIs and applies in addition to the appropriate nonrecurring and recurring charges for each of the three DLCIs. The Intelligent PVC Charge shall be billed to the Network Interface associated with the DLCI which is the pivot endpoint of this PVC.

A request to convert an existing two DLCI PVC into a three DLCI Intelligent PVC (or vice versa) shall be considered as a request to disconnect the existing PVC and as a request for connection of new DLCIs to form the new PVC.

The pivot endpoint of an Intelligent PVC must be provisioned out of a Company-provided Frame Relay switch. (If only Company provided switches are utilized in the total service configuration, no service limitations should occur; however, when a non-Company switch is involved in an Intelligent PVC configuration, service limitations may be encountered.)

Both the primary and secondary endpoints of an Intelligent PVC must be of the same service type.

Additionally, an Intelligent PVC configuration is not currently available with Manual Back-Up Capability or Automatic Back-Up Capability.



ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.9 Rate Categories (Cont'd)

(B) Optional Features (Cont'd)

(5) Special Provisioning

Special Provisioning (SP) provides redundancy for the broadband switch. The SP feature pairs two circuits together to minimize the risk that a single network element failure will result in a service interruption of both circuits. XAFRS Special Provisioning is available in 56 Kbps and 64 Kbps speeds. It is not available with Multilink Frame Relay. Special Provisioning provides diversity in one of two methods of port protection: Different Switch Diversity or Same Switch Diversity.

Different Switch Diversity allows port protection by provisioning two circuits on different switches, providing against port, card or switch failure. Both switches must be identified as having spare capacity, and will be provided by the Company where available.

If multiple switches with spare capacity do not exist in the central office providing switching, then the Company will choose to implement port protection by placing the two circuits on different cards on the switch (i.e. Same Switch Diversity). For Same Switch Diversity, there are separate cards associated with each circuit.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)

21.2.9 Rate Categories (Cont'd)

(B) Optional Features (Cont'd)

(6) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability<sup>(1)</sup>

BellSouth CNM-Customer Configuration Management Capability is optionally available for an XAFRS customer to have the ability to add, change and delete PVCs for their XAFRS Network Interface themselves, without utilizing the standard ordering/provisioning process to request the Company to perform these functions. PVCs created thru the standard ordering/provisioning process by the Company are standard non-configurable PVCs and cannot be modified by the customer as described herein thru CNM-Customer Configuration Management Capability; the customer is billed the preceding DLCI and CIR rates and charges for standard non-configurable PVCs. PVCs created thru CNM-Customer Configuration Management Capability are referred to as configurable PVCs and may be created and modified by the customer as described herein; the customer is billed the charges described following for such configurable PVCs. A customer may choose to utilize one or both of these methods for establishing PVCs on a given XAFRS Network Interface. Due to technical limitations, CNM-Customer Configuration Management Capability is not available on an XAFRS MultiLink Network Interface or on an XAFRS Network Interface which is a "primary" network interface in association with Back-Up Capability.

- (a) CNM-Customer Configuration Management Capability is available only for XAFRS Network Interfaces equipped with CNM-NVS and is available only for the customer to add, modify or delete configurable PVCs formed between similarly equipped Frame Relay service with CNM-NVS and CNM-Customer Configuration Management Capability.
- (b) CNM-Customer Configuration Management Capability is established via the standard ordering/provisioning process on a per XAFRS Network Interface basis when a minimum of one Configurable DLCI Bundle is ordered.
- (c) DLCIs in a Configurable DLCI Bundle will be referred to as configurable DLCIs. Two configurable DLCIs mapped thru CNM-Customer Configuration Management Capability form a configurable PVC.
- (d) To utilize CNM-Customer Configuration Management Capability, each XAFRS Network Interface must have a minimum of one Configurable DLCI Bundle ordered by the customer. More than one Configurable DLCI Bundle may be ordered for a specific XAFRS Network Interface to establish the block, or total quantity, of configurable DLCIs available for that XAFRS Network Interface. The block of configurable DLCIs established are only for the use of that single XAFRS Network Interface may not be "shared" with other XAFRS Network Interfaces.

<sup>(1)</sup> Effective May 16, 2008, BellSouth CNM-Customer Configuration Management Capability will not be available for new customer orders. Customers with existing service may continue using the service but new orders will not be accepted.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)

21.2.9 Rate Categories (Cont'd)

(B) Optional Features (Cont'd)

(6) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability (Cont'd)

- (e) A monthly rate applies for each Configurable DLCI Bundle ordered and the rate varies based upon the quantity of configurable DLCIs included in each bundle. Each Configurable DLCI Bundle provides a specific quantity of standard configurable DLCIs, each with a maximum CIR of up to 64 Kbps per configurable DLCI. Customers will order the quantity and size bundles that will provide the total quantity or block of configurable DLCIs needed for an XAFRS Network Interface. The configurable DLCI block quantity is then the customer-established limit of the number of configurable DLCIs which the customer may manage on a specific XAFRS Network Interface. The block of configurable DLCIs selected for an XAFRS Network Interface may be increased or decreased as the customer's needs change. The Configurable DLCI Block Establishment/Change Charge is the nonrecurring charge applicable for initially ordering and provisioning the Configurable DLCI Bundle(s) to establish the configurable DLCI block and for making a subsequent request to change the block size (i.e., add or delete bundles).
- (f) The Configurable DLCI Block Establishment/Change Charge is a nonrecurring charge applicable to initially establish the block of configurable DLCIs for an XAFRS Network Interface. This charge is also applicable per subsequent request to change the size of the configurable DLCI block. Only one such nonrecurring charge applies per request regardless of how many Configurable DLCI Bundles are requested to initially establish the block or are requested subsequently to be added or deleted.
- (g) With CNM-Customer Configuration Management Capability the customer will have the capability to add, change and/or delete configurable PVCs formed by the mapping of two configurable DLCIs. A PVC cannot be established between a configurable DLCI and a non-configurable DLCI thru either CNM-Customer Configuration Management Capability or thru the standard ordering/provisioning process. CNM-Customer Configuration Management Capability cannot be utilized to make changes to a non-configurable PVC, and the standard ordering/provisioning process cannot be utilized to create, modify or delete a configurable PVC.
- (h) As a current technical limitation CNM-Customer Configuration Management Capability cannot be utilized for Priority PVCs, Intelligent PVCs, MultiCast PVCs or Frame Relay to ATM Interworking PVCs. Therefore, requests for these types of PVCs will have to be made thru the standard ordering/provisioning process for the Company to provision and will be subject to the preceding standard rates and charges for such features.

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)

21.2.9 Rate Categories (Cont'd)

(B) Optional Features (Cont'd)

(6) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability (Cont'd)

- (i) CNM-Customer Configuration Management Capability may only be utilized to create configurable PVCs between two Frame Relay services equipped with CNM-NVS and CNM-Customer Configuration Management Capability within the same LATA.
- (j) A customer may request that some or all of the standard DLCIs associated with an existing XAFRS Network Interface with CNM- Customer Configuration Management Capability be converted to Configurable DLCIs. Only standard DLCIs that are mapped to other Network Interfaces also equipped for CNM-Customer Configuration Management can be converted (subject to any limitations set forth herein 21.2.9.(B)(6) on what types of Network Interfaces and PVCs are technically compatible with CNM-Customer Configuration Management Capability). The DLCI Conversion Charge is the nonrecurring charge applicable per standard DLCI requested to be converted to a configurable DLCI. Once converted to a configurable DLCI, that DLCI will be counted against the XAFRS Network Interface configurable DLCI block quantity; monthly rates for the standard DLCI and associated CIR will concurrently no longer apply.
- (k) A customer may request that some or all of the configurable DLCIs associated with an existing XAFRS Network Interface with CNM-Customer Configuration Management Capability be converted to standard DLCIs which the customer will no longer manage. Such requests will convert the configurable DLCI "as is" to a standard DLCI (i.e., standard additional DLCI with same CIR value). The DLCI Conversion Charge is the nonrecurring charge applicable per configurable DLCI requested to be converted to a standard DLCI. Once converted to a standard DLCI, that DLCI (and associated CIR) will begin billing the standard DLCI and CIR monthly rates and will concurrently no longer count against the configurable DLCI block quantity for that XAFRS Network Interface.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)

21.2.9 Rate Categories (Cont'd)

(B) Optional Features (Cont'd)

(6) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability (Cont'd)

- (1) After the customer has established CNM-Customer Configuration Management Capability (by ordering Configurable DLCI Bundles to establish the configurable DLCI block for each XAFRS Network Interface) for their network, the customer will have access thru the NVS system to mechanically add, change and delete configurable PVCs between these XAFRS Network Interfaces.
- (m) A CNM-Customer Configuration Management service request is made thru CNM-NVS for a specific PVC activity (e.g., add configurable PVC, change CIR or endpoint on an existing configurable PVC, delete configurable PVC, etc.) involving Frame Relay services equipped with CNM-NVS and CNM-Customer Configuration Management Capability. Each CNM-Customer Configuration Management service request will be assigned a service request number to facilitate customer questions and to enable status and tracking.
- (n) A CNM-Customer Configuration Management service request will be provisioned within minutes; however a Cancellation Window of two hours is allowed after successful provisioning during which time the customer may submit a request thru CNM-NVS to cancel or "undo" the request before the change becomes permanent. The customer may specifically request to forgo (close) the Cancellation Window during which a particular service request may be cancelled and commit that CNM-NVS make the service request provisioning become permanent immediately. When the Cancellation Window expires without the customer canceling the service request or the customer foregoes/closes the Cancellation Window, the provisioned service request is made permanent and considered a completed transaction.
- (o) CNM-Customer Configuration Management Capability effectively provides the customer near real-time processing capability to allow them to manage the provisioning and change activities for configurable PVCs within their network. However, access to CNM-Customer Configuration Management Capability is not guaranteed for customer access and use twenty-four hours a day/seven days a week. Customer access may be periodically preempted for higher priority Company network management and maintenance activities. Customer inability to access the NVS/Customer Configuration Management systems during these periods will not be considered a service outage.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.9 Rate Categories (Cont'd)

(C) Feature Change Charge

In addition to any specific Optional Feature charges, a Feature Change Charge applies whenever a change is made (at the customer's request) to a single optional feature within a single network configuration on a single switch. Although multiple changes may be caused by such actions, only one Feature Change Charge will apply.

(D) Transfer of Service

When a change to the customer of record is requested, transfer of service charges, as set forth in 21.2.10(D) following will apply. Charges are applied on a Billing Account Number (BAN).

Administrative changes, as identified below, will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Access Service to the same entity. (i.e., customer remains responsible for all outstanding indebtedness for Access Service). Administrative changes are as follows:

- Change of customer name (i.e., the customer of record does not change but rather the customer of record changes its name -- e.g., AT&T-Long Lines to AT&T-Long Lines to AT&T-Communications),
- Change of customer or customer's end user premises address when the change of address is not a result of physical relocation of equipment,
- Change in billing data (name, address, or contract name or telephone number. The customer of record does not change),
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name of telephone number, and
- Change of jurisdiction.

All other service arrangements, including physical changes to existing services, will be charged as follows:

- If the change involves the addition of an optional feature which has a separate nonrecurring charge, that nonrecurring charge will apply.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service (Cont'd)

21.2.10 Rates and Charges

(A) Network Interface

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>	
(1) Standard or Primary Network Interfaces						
-	Per UNI					
-	56 Kbps	XAFU5	\$ 62.00	\$ 49.00	\$ 44.00	\$ 300.00
-	64 Kbps	XAFU6	70.00	56.00	50.00	300.00
-	112 Kbps	XAFUA	133.00	106.40	93.10	467.00
-	128 Kbps	XAFUB	133.00	106.40	93.10	467.00
-	192 Kbps	XAFUC	167.00	133.60	116.90	467.00

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ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service (Cont'd)

21.2.10 Rates and Charges (Cont'd)

(A) Network Interface (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
(1) Standard or Primary Network Interfaces (Cont'd)					
- Per NNI					
- 56 Kbps	XAFN5	62.00	49.00	44.00	300.00
- 64 Kbps	XAFN6	70.00	56.00	50.00	300.00
- 112 Kbps	XAFNA	133.00	106.40	93.10	467.00
- 128 Kbps	XAFNB	133.00	106.40	93.10	467.00
- 192 Kbps	XAFNC	167.00	133.60	116.90	467.00

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service (Cont'd)

21.2.10 Rates and Charges (Cont'd)

(A) Network Interfaces (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
(2) Back-Up Network Interfaces					
A. Manual Backup Capability					
Per UNI					
- 56 Kbps	XAFBA	31.00	25.00	22.00	300.00
- 64 Kbps	XAFBB	35.00	28.00	26.00	300.00
Per NNI					
- 56 Kbps	XAFBE	31.00	25.00	22.00	300.00
- 64 Kbps	XAFBF	35.00	28.00	26.00	300.00
B. Automatic Back-Up Capability					
Per UNI					
- 56 Kbps	XAFAA	31.00	25.00	22.00	300.00
- 64 Kbps	XAFAB	35.00	28.00	26.00	300.00
Per NNI					
- 56 Kbps	XAFAE	31.00	25.00	22.00	300.00
- 64 Kbps	XAFAF	35.00	28.00	26.00	300.00

(3) Primary Network Interface Enablement/Change Charge – applies as set forth in 21.2.9(A) in association with Back-Up Capability.

<u>USOC</u>	<u>Nonrecurring Charge</u>
XAFEC	125.00

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.10 Rate and Charges (Cont'd)

(B) Optional Features

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
- DLCI <sup>1</sup>			
- Initial Standard DLCI <sup>2</sup>	XAFD1	None	None
- Additional Standard DLCI	XAFD2	\$1.50	\$70.00
- Initial Priority DLCI <sup>2,3</sup>	XAFP1	\$5.00	None
- Additional Priority DLCI <sup>3</sup>	XAFP2	\$5.00	\$70.00
- Standard Pivot DLCI	XAFD3	\$1.50	\$70.00
- Standard Primary DLCI	XAFD4	\$1.50	\$70.00
- Standard Secondary DLCI	XAFD5	\$1.50	\$70.00
- Priority Pivot DLCI <sup>3</sup>	XAFP3	\$5.00	\$70.00
- Priority Primary DLCI <sup>3</sup>	XAFP4	\$5.00	\$70.00
- Priority Secondary DLCI <sup>3</sup>	XAFP5	\$5.00	\$70.00

Note 1: These DLCI charges are not applicable for configurable DLCIs provided as part of a Configurable DLCI Bundle associated with CNM-Customer Configuration Management Capability.

Note 2: One "Initial" DLCI is applicable when DLCIs are ordered at the same time as the installation of the Network Interface. Only one Initial DLCI (either one Initial Standard DLCI or one Initial Priority DLCI) is allowed per Network Interface. All other DLCIs are considered Additional DLCIs.

Note 3: A Priority DLCI must have CIR with a value greater than 0.

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.10 Rate and Charges (Cont'd)

(B) Optional Features (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
- Standard Committed Information Rate (CIR) (Per DLCI to be mapped to another DLCI) cannot exceed the minimum transmission speed of the link at either end of the PVC. <sup>1</sup>			
- 0 Bps	XAFCA	None	None
- Over 0 thru 32 Kbps	XAFCB	\$ 6.30	None
- Over 32 thru 56 Kbps	XAFCC	10.80	None
- Over 56 thru 64 Kbps	XAFCD	11.70	None
- Over 64 thru 128 Kbps	XAFCE	16.20	None
- Over 128 thru 256 Kbps	XAFCH	21.60	None

<sup>(1)</sup> These CIR Charges are not applicable for configurable DLCIs provided within a Configurable DLCI Bundle (which include CIR of up to 64 Kbps per configurable DLCI) associated with Customer Configuration Management Capability.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.10 Rate and Charges (Cont'd)

(B) Optional Features (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
- Frame Relay to ATM Network Interworking Committed Information Rate (CIR) (Per DLCI to be mapped to an ATM PVC Segment) cannot exceed the minimum transmission speed of the link at either end of the PVC			
- 0 Bps	XAF5A	\$ .15	None
- Over 0 thru 32 Kbps	XAF5B	6.90	None
- Over 32 thru 56 Kbps	XAF5C	11.90	None
- Over 56 thru 64 Kbps	XAF5D	12.90	None
- Over 64 thru 128 Kbps	XAF5G	17.80	None
- Over 128 thru 256 Kbps	XAF5H	23.80	None
- Intelligent PVC Charge – One Intelligent PVC Charge applies per customer-specified arrangement of 3 DLCIs and is in addition to the charges for DLCIs.			

(1) Per Intelligent PVC

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
a. Each	FRV1P	\$ 2.00	None

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.10 Rate and Charges (Cont'd)

(B) Optional Features (Cont'd)

Special Provisioning<sup>(1)</sup>

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
- Per UNI					
- 56 Kbps	XAFGA	\$ 9.00	\$ 7.00	\$ 6.00	\$ 45.00
- 64 Kbps	XAFGA	11.00	8.00	7.00	45.00

<sup>(1)</sup> Special Provisioning charges are in addition to Standard or Primary Network Interface charges.

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.10 Rate and Charges (Cont'd)

(B) Optional Features (Cont'd)

Special Provisioning<sup>(1)</sup> (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
- Per NNI					
- 56 Kbps	XAFGA	\$ 9.00	\$ 7.00	\$ 6.00	\$ 45.00
- 64 Kbps	XAFGA	11.00	8.00	7.00	45.00

<sup>(1)</sup> Special Provisioning charges are in addition to Standard or Primary Network Interface charges.

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ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)

21.2.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

CNM-Customer Configuration Management Capability - Rate elements following for CNM-Customer Configuration Management Capability are applicable for DLCIs and CIR associated with configurable PVCs provisioned by the customer; these rates and charges apply in lieu of those preceding for DLCI and CIR rate elements applicable for standard PVCs provisioned by the Company.

- Configurable DLCI Bundles - Each bundle provides the specified quantity of configurable DLCIs, with up to 64 Kbps CIR per DLCI. Multiple bundles may be selected to secure the total quantity, or block, of configurable DLCIs for an XAFRS Network Interface.

	<u>USOC</u>	<u>Monthly Rate</u>
- 2 DLCI Bundle	XAFKA	\$ 16.50
- 5 DLCI Bundle	XAFKB	41.00
- 15 DLCI Bundle	XAFKC	121.00
- 25 DLCI Bundle	XAFKD	197.00
- 35 DLCI Bundle	XAFKE	270.00
- 50 DLCI Bundle	XAFKF	373.00
- 100 DLCI Bundle	XAFKG	664.00
- 200 DLCI Bundle	XAFKH	1,162.00
- 300 DLCI Bundle	XAFKJ	1,494.00
- 400 DLCI Bundle	XAFKK	1,660.00

- Configurable DLCI Block Establishment/Change Charge - This nonrecurring charge is applicable to initially establish the block of configurable DLCIs for an XAFRS Network Interface. This charge is also applicable per subsequent request to change the size of the block of configurable DLCIs. Only one such nonrecurring charge applies per request regardless of how many Configurable DLCI Bundles are requested to initially establish the block or are requested subsequently to be added or deleted.

	<u>USOC</u>	<u>Nonrecurring Charge</u>
- Per Request	XAFKY	\$45.00

- DLCI Conversion Charge - This nonrecurring charge is applicable per standard DLCI requested to be converted to a configurable DLCI and per configurable DLCI requested to be converted to a standard DLCI.

	<u>USOC</u>	<u>Nonrecurring Charge</u>
- Per DLCI	XAFKZ	\$16.00

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ACCESS SERVICE

21 - Fast Packet Access Services

21.2 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) (Cont'd)

21.2.10 Rate and Charges (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(C) <u>Feature Change Charge</u>			
- Per Occurrence, Per Feature	XAFFC	None	50.00
(D) <u>Transfer of Service</u>			
- Per Billing Account Number	XAFTF	None	65.00



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EFFECTIVE: JULY 1, 2011

## ACCESS SERVICE

### 21 - Fast Packet Access Services

#### 21.3 Managed Shared Frame Relay Service (MSFRS)

##### 21.3.1 General Description

Managed Shared Frame Relay Service (MSFRS) provides total premises to switch connectivity to BellSouth's Frame Relay network through Network-to-Network Interfaces (NNI) or User-to-Network Interfaces (UNI) on the frame relay switch. MSFRS is a connection oriented packet-switched data service allowing for the interconnection of local area networks or other compatible customer equipment. Efficient throughput at various transmission speeds is performed. MSFRS allows for the transfer of variable length frames called packets. Frames are relayed by virtual connections; frames travel a fixed path through the network although bandwidth is not dedicated to each virtual connection.

MSFRS is a service under which the customer assigns to the Telephone Company the responsibility for facility design, engineering and routing of frame relay services in a MSFRS Service Area. A MSFRS Service Area is comprised of all the central offices in a geographic area (e.g., a large metropolitan area) as defined by the Telephone Company; these central offices are referred to as Service Area Points (SAP). The Telephone Company undertakes the responsibility to route the service from the customer's premises to the MSFRS network using whatever facilities and switch placement designs within the Service Area that would best deliver quality service. MSFRS facilities are stand-alone facilities and may not be provisioned over a customer's higher capacity Special Access facilities.

The rate structure for MSFRS is comprised of MSFRS Connections and Optional Features.

The primary MSFRS rate element is the MSFRS Connection. This rate element provides the transport from the customer's premises to the MSFRS network. All frame relay switches within the MSFRS Service Area are linked together to form the MSFRS network which is accessible through a MSFRS Connection.

MSFRS uses permanent virtual circuits (PVCs). A PVC is a logical channel from one MSFRS Connection to another MSFRS Connection (or to a network interface associated with Exchange Access Frame Relay Service). MSFRS utilizes an address field called the Data Link Connection Identifier (DLCI). A DLCI specifies a virtual connection associated with a specific MSFRS Connection. The mapping of two DLCIs through the service provisioning process creates a single PVC. An initial DLCI is included with the MSFRS Connection rate element, and additional DLCIs are available as Optional Features.

The appropriate rate for a MSFRS Connection is dependent upon the type of network interface requested, the transmission speed requested and whether or not the customer's serving wire center is in the MSFRS Service Area.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.1 General Description (Cont'd)

MSFRS Connections are available with two types of network interfaces on the Frame Relay switch - a user network interface (UNI) and a network-to-network interface (NNI). A UNI is a standard interface used to connect the customer to the Frame Relay switch in the MSFRS network; it receives the data frame from the customer's network or device and verifies that the data link channel identifier is valid before relaying the frame to the destination. An NNI specifies how a Frame Relay switch within the MSFRS network sends and receives data to/from another Frame Relay switch.

MSFRS Connections are offered with either a UNI or NNI at transmission speeds of 56 Kbps, 64 Kbps, 112 Kbps, 128 Kbps and 192 Kbps. Additionally, MSFRS Back-Up Connections are available as UNI or NNIs at transmission speeds of 56 Kbps and 64 Kbps to be utilized to provide Back-Up Capability on an optional basis, which is discussed following.

A MSFRS Connection (by transmission speed and network interface type) is appropriate for a customer whose premises serving wire center is inside the MSFRS Service Area.

Where a customer premises serving wire center is outside the MSFRS Service Area (but within the same LATA), a MSFRS Extended Connection (by transmission speed and network interface type) is applicable based upon the mileage from the customer's serving wire center to the closest Service Area Point as designated by the Telephone Company (which is a central office inside the MSFRS Service Area). Six MSFRS Extended Connections are available which reflect mileage bands outside the Service Area. These mileage bands are: Over 0 to 20 miles, over 20 to 50 miles, over 50 to 75 miles, over 75 to 100 miles, over 100 to 125 miles and over 125 miles. These bands represent the airline mileage from the customer's serving wire center to the closest Service Area Point.

Information required to determine which Service Area is associated with a specific customer premises serving wire center and whether a specific customer premises serving wire center is inside a Service Area or requires a MSFRS Extended Connection is available from Appendix A of this tariff. If the serving wire center is outside a MSFRS Service Area, the V&H coordinates of the customer's serving wire center and the closest Service Area Point are utilized in calculating the airline mileage to determine the appropriate mileage band for the MSFRS Extended Connection.

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ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.1 General Description (Cont'd)

In LATAs where there are multiple MSFRS Service Areas, the customer may utilize a MSFRS Inter Service Area Link to have connectivity on a per PVC basis between MSFRS Connections in each Service Area. The inter service area portion of such a PVC is provisioned over a facility provided by the Telephone Company which allows customers to share bandwidth on these facilities that connect the two MSFRS Service Areas. This Optional Feature is called an Inter Service Area Link. Information provided in Appendix A of this tariff may be used to determine if two MSFRS Connections (based upon their associated customer premises serving wire centers) are in two different Service Areas within the same LATA and, therefore, require an Inter Service Area Link to form a PVC between them.

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE  
21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.1 General Description (Cont'd)

Manual Back-Up Capability and Automatic Back-Up Capability provide the ability to have a back-up logical port configured to meet a customer's needs in the event that the customer's primary connection is disabled. Manual Back-Up is available at transmission speeds of 56 Kbps and 64 Kbps. Automatic Back-Up is available at transmission speeds of 56 Kbps and 64 Kbps. A MSFRS Back-Up Connection is specifically dedicated to providing back-up service and remains idle except when being utilized for back-up purposes.

The customer must prearrange with the Company which MSFRS Connection(s) may have their traffic redirected to a specific MSFRS Back-Up Connection so that the necessary work is done by the Company which is required prior to back-up capability being possible. A MSFRS Connection thus identified which may have its traffic redirected in the event of its failure is referred to as a back-up enabled primary MSFRS Connection, or referred to herein as simply the primary MSFRS Connection. A MSFRS Connection which is not enabled to work with a Back-Up is referred to as a standard MSFRS Connection.

A primary MSFRS Connection may have only one MSFRS Back-Up Connection identified. For Manual Back-Up Capability, a MSFRS Back-Up Connection may serve as the back-up for more than one primary MSFRS Connection. For Automatic Back-Up Capability, a MSFRS Back-Up Connection may serve as the back-up for one primary MSFRS Connection.

The customer(s) involved in a back-up arrangement must provide the appropriate information on 1) which MSFRS Back-Up Connection operates with each primary MSFRS Connection and 2) who has the authority to request the traffic to be redirected from the primary MSFRS Connection to the MSFRS Back-Up Connection (and vice versa).

Manual Back-Up Capability is manually activated by the Company when the authorized contact identified by the customer requests service from the primary MSFRS Connection to be redirected to its pre-identified MSFRS Back-Up Connection. (All DLCIs associated with the primary MSFRS Connection are rerouted to the MSFRS Back-Up Connection.) At the direction of the authorized contact identified by the customer, the Company subsequently then redirects traffic from the MSFRS Back-Up Connection to the primary MSFRS Connection.

Automatic Back-Up Capability automatically initiates the transfer of virtual circuits from the primary MSFRS Connection to the specified MSFRS Back-Up Connection in the event the integrity fails on the primary MSFRS Connection. Once the primary MSFRS Connection is restored, at the direction of the authorized contact identified by the customer, the Company will subsequently redirect traffic from the MSFRS Back-Up Connection to the primary MSFRS Connection. If the primary MSFRS Connection is recovered and a failure occurs on the MSFRS Back-Up Connection before the customer requests the switchover back to the primary MSFRS Connection, Automatic Back-Up Capability will automatically move the virtual circuits to the primary MSFRS Connection.

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ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.1 General Description (Cont'd)

A primary MSFRS Connection that is a UNI can only be associated with a UNI Back-Up. A primary MSFRS Connection that is an NNI can only be associated with an NNI Back-Up.

The Manual MSFRS Back-Up Connection may or may not be on the same switch node as the primary MSFRS Connection. For diversity, the Manual MSFRS Back-Up Connection will be on a separate card.

The Automatic MSFRS Back-Up Connection must be on the same switch node as the primary MSFRS Connection. For diversity, the Automatic MSFRS Back-Up Connection will be on a separate card.

For Manual Back-Up Capability and Automatic Back-Up Capability, it is strongly recommended that the size of the MSFRS Back-Up Connection must be the same size as the customer's largest primary MSFRS Connection. In the event that the customer chooses to utilize a MSFRS Back-Up Connection that is a lower speed than the primary MSFRS Connection, the Company cannot guarantee the sufficiency of the MSFRS Back-Up Connection to protect the customer's primary data. There exists the realistic possibility that due to the lower amount of physical bandwidth on the MSFRS Back-Up Connection, not all of the customer's virtual circuits will be provisioned to the MSFRS Back-Up Connection. Network congestion may be encountered which may result in packets of data being discarded or entire locations without access to Back-Up Capability.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.2 Service Description

(1) Installation of Service

Nonrecurring charges apply to each MSFRS Connection installed.

Nonrecurring charges for MSFRS Connections are set forth in 21.3.10(A) following.

(2) Installation of Optional Features

Nonrecurring charges apply to the installation of Optional Features as set forth in 21.3.10(B) following.

(3) Service Rearrangements

Service rearrangements are changes to existing (installed) services that do not result in a change in the minimum period requirements as set forth in 5.6(E) preceding. Changes that result in the establishment of new minimum period obligations are treated as disconnects and starts. A change that results from a transfer of service is described and charged as set forth in (4) and 21.3.10(D) following.

- (a) Requests for PVC rearrangements may result in the service being unavailable during the time that such rearrangements are performed/provisioned by the Telephone Company.

Customer requests for PVC rearrangements that are submitted with a due date, specified worktime (in Eastern Time), contact name and contact phone number will be performed on the due date at the time requested by the customer.

Customer requests for PVC rearrangements that are submitted with a due date but without the specified worktime (in Eastern Time), contact name and contact phone number will be performed on the due date plus one day, between Midnight and 4:00 A.M. Eastern Time.

- (b) Requests for an existing MSFRS Connection to be rearranged to utilize a different MSFRS switch (i.e., to allow the customer to order features/functions not technically available out of the currently assigned MSFRS switch) will result in the service being unavailable during the time that such rearrangement activity is performed/provisioned by the Telephone Company; this time will not be considered as down time for SLA Network Availability purposes. The Telephone Company will fulfill such a request by rearranging the MSFRS Connection to be provisioned off another MSFRS switch (at the Telephone Company's discretion) that is in the same Telephone Company Central office as the existing switch being used. Nonrecurring charges shall not apply for such a rearrangement request.

(This page filed under Transmittal No. 1 )

Material previously appearing on this page now appears on Original Page 21-30.1.

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.2 Service Description (Cont'd)

(4) Transfer of Service

When a change in billing data (e.g., name, address, contract name, or telephone number) is requested in association with a change in the customer's record, transfer of service charges, as set forth in 21.3.10(D) following will apply. Charges are applied on a Billing Account Number (BAN).

(5) Maintenance

In order to maintain the quality of MSFRS, the Telephone Company reserves the right to perform preventive maintenance and software updates to the network. This could result in MSFRS being unavailable during the time period between 12:00 midnight and 6:00 A.M. Eastern Time seven days a week in all states. The Telephone Company only expects to utilize this maintenance window for any given switch on the average of once a quarter. However, the Telephone Company reserves the right to perform maintenance at any time at its discretion that it believes such maintenance is necessary. The Telephone Company will make a reasonable effort to provide notice to those customers likely to be affected by such maintenance work.

(This page filed under Transmittal No. 1 )

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.2 Service Description (Cont'd)

(6) Service Level Agreements

Service Level Agreements (SLAs) provide the Company's service level commitments for specific aspects of its Frame Relay network's performance. SLAs are only provided for customers with at least ten Frame Relay UNIs and or NNIs. Such customers must also subscribe to BellSouth CNM-NVS (specifically CNM-NVS Fault Management, On Demand Statistics and Performance Reports) which is the primary monitoring and reporting tool used for determining performance results and missed commitments.

SLA commitments only apply for service wholly within Company territory; SLA commitments will not apply for service which is part of a jointly provided service.

- (a) SLA commitments are provided for Network Availability, Network Transit Delay and Frame Delivery Rate.
- (b) SLA credits are provided for missed commitments, except as specified otherwise in (c) and (d) following. An SLA report is provided through the CNM-NVS system that provides details of missed commitments upon which credits will be issued; the SLA report is available on a calendar month basis. Credits are automatically issued based upon the end-of-month SLA report; such credits shall only be issued once a month. The Company's calculation of its performance through the CNM-NVS system shall be the sole determinate of the Company's obligation to provide a credit for a missed performance commitment as set forth in this tariff.
- (c) SLA credits for missed commitments do not apply when any commitment is not met because the Company does not have control over the circumstances causing the commitment to be missed. Situations over which the Company does not have control can be defined as, but not limited to the following:
  - any act, any omission or negligence on the part of the customer, any other customer or any third party, or of any other entity providing a portion of the service,
  - labor difficulties, governmental orders, civil commotions, acts of civil or military authority, embargoes, epidemics, declared National Emergencies, criminal actions against the Company, war, terrorist acts, riots, insurrections, fires, explosions, nuclear accidents, power blackouts, acts of God (including, but not limited to, earthquakes, floods or unusually severe weather conditions) or other circumstances beyond the Company's control,

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.2 Service Description (Cont'd)

(6) Service Level Agreements (Cont'd)

(c) (Cont'd)

- the customer's premises equipment,
- unavailability of the customer's facilities and/or equipment, and
- customer oversubscription of the UNI/NNI beyond 200% (i.e., the sum of the total CIR of all PVCs carried by any UNI or NNI may not be greater than 200% of the UNI/NNI Connection speed).

(d) SLA credits for missed commitments do not apply for situations when the customer's service is out of operation as a result of 1) scheduled maintenance windows as set forth in 21.3.2(5) preceding and 2) customer requests for rearrangements which resulted in that service being unavailable as set forth in 21.3.2(3)(a) and (b) preceding. Time from such activity does not count towards the time a service is considered as unavailable during a calendar month for purposes of measuring for the Network Availability SLA.

(e) Service Level Commitments

SLA commitments for the specific aspects of the Frame Relay network's performance set forth in (a) preceding are measured on a specific calendar month basis. The specific network performance commitments provided and how their performance is measured through the CNM-NVS system for a calendar month are as follows:

(1) Network Availability Commitment: 99.9%

- The Network Availability commitment is provided on the customer's total Frame Relay network. Network Availability will measure the percentage of time during a calendar month that the customer's Frame Relay network is available.
- Network availability will be measured through the CNM-NVS system for the customer's total Frame Relay network and for each individual Frame Relay UNI/NNI for a whole calendar month.
- For the purpose of measuring Network Availability, times during which a Frame Relay UNI/NNI is out of operation in association with maintenance windows (as set forth in 21.2.2(5)) and in association with situations over which the Company does not have control (as set forth in 21.3.2(6)(c)) are counted as "available" time.

(This page filed under Transmittal No. 1 )

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.2 Service Description (Cont'd)

(6) Service Level Agreements (Cont'd)

(e) Service Level Commitments (Cont'd)

(1) Network Availability Commitment: 99.9% (Cont'd)

- Total Frame Relay Network - Network Availability: Network Availability for the customer's total network is calculated by subtracting the total unavailable time for all the Frame Relay UNI/NNIs in a specific total calendar month, from the total available time for all the Frame Relay UNI/NNIs in that specific total calendar month, and then dividing the difference by the total available time for all the Frame Relay UNI/NNIs in that specific total calendar month. If the resulting percentage is less than 99.9%, the commitment for Network Availability has been missed; the SLA Network Availability credit will then be issued on any Frame Relay UNI/NNI whose specific individual Network Availability measurement is below 99.9%.
- Individual Frame Relay UNI/NNI - Network Availability: Network Availability for an individual Frame Relay UNI/NNI is calculated by first subtracting the unavailable time from the total available time for a specific calendar month, and then dividing it by the total available time for that specific calendar month. If the Network Availability SLA commitment was missed on the customer's total network and the resulting percentage for a specific individual Frame Relay UNI/NNI is less than 99.9%, the SLA Network Availability credit set forth in 21.3.2(6)(f)(1) will then be issued on that specific individual Frame Relay UNI/NNI.

(2) Network Transit Delay Commitment: 60 milliseconds, one-way

- The Network Transit Delay commitment is provided for each individual PVC within the customer's Frame Relay network.
- Through the CNM-NVS System, Network Transit Delay will measure the average one-way transit time of a specific PVC's frames through the network within a specific calendar month. The transit time for each frame transmitted is measured from the originating Frame Relay UNI/NNI to the terminating Frame Relay UNI/NNI. The measurement for the Network Transit Delay commitment is the average transit time of a frame for a PVC, based upon all the frames transmitted for that PVC during that specific calendar month.

(This page filed under Transmittal No. 1 )

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.2 Service Description (Cont'd)

(6) Service Level Agreements (Cont'd)

(e) Service Level Commitments

(2) Network Transit Delay Commitment: 60 milliseconds, one-way (Cont'd)

- The average monthly Network Transit Delay for a PVC will be determined by dividing the sum of the actual transit time of each frame sent via the PVC that month by the total frames transmitted in that specific calendar month. If the resulting average transit time per frame for that PVC is greater than 60 milliseconds (one-way), the commitment has been missed for that PVC and the Network Transit Delay Credit set forth in 21.3.2(6)(f)(2) will then be issued on this Frame Relay PVC.

(3) Frame Delivery Rate Commitment: 99.9%

- The Frame Delivery Rate commitment is provided for each Frame Relay PVC that has a CIR of greater than 32 Kbps.
- Through the NVS System, Frame Delivery Rate will measure the percentage of frames successfully delivered for a PVC. The Frame Delivery Rate measures the quantity of frames transmitted versus quantity of frames received during a specific calendar month between the two Frame Relay UNI/NNI's forming the PVC (i.e., the difference in frames transmitted versus received are considered "dropped").
- The monthly Frame Delivery Rate for a qualifying PVC in a specific calendar month is determined by subtracting the total frames dropped from the total frames transmitted, divided by the total frames transmitted. If the resulting percentage representing the percent of frames delivered for that PVC is less than 99.9%, this commitment has been missed and the Frame Delivery Rate credit set forth in 21.3.2(6)(f)(3) will then be issued on this Frame Relay PVC.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.2 Service Description (Cont'd)

(6) Service Level Agreements (Cont'd)

(f) Credits for Missed SLA Commitments

The following credits are provided for SLA performance commitments missed during a calendar month subject to the conditions outlined herein 21.3.2(6).

Total SLA credits issued for an individual Frame Relay UNI/NNI in a specific calendar month cannot exceed the total monthly recurring charges billed for that Frame Relay UNI/NNI (i.e., cannot exceed the sum of the monthly billing for the MSFRS Connection rate element plus any rate elements for features).

(1) Network Availability SLA Credit<sup>1</sup>:

- This credit is appropriate when the Network Availability commitment for the customer's total network is missed; this credit is then applied per individual Frame Relay UNI/NNI that does not specifically meet the Network Availability commitment.
- For each individual Frame Relay UNI/NNI not meeting this commitment for a specific calendar month, a credit equal to 1/30 of its monthly recurring charge for the MSFRS Connection rate element will be issued.

(2) Network Transit Delay SLA Credit<sup>1</sup>:

- This credit is applied per individual Frame Relay PVC (i.e., a DLCI pair forming the PVC) that does not meet the Network Transit Delay commitment.
- For each PVC not meeting this commitment for a specific calendar month, a credit equal to \$3.00 for the affected DLCI pair will be issued.

Note 1: This credit will be reduced by the applicable Fast Packet Savings Plan (FSP) discount if the customer has an FSP agreement.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.2 Service Description (Cont'd)

(6) Service Level Agreements (Cont'd)

(f) Credits for Missed SLA Commitments (Cont'd)

(3) Frame Delivery Rate SLA Credit<sup>1</sup>:

- This credit is applied per individual Frame Relay PVC (i.e., a DLCI pair forming the PVC) that does not meet the Frame Delivery Rate commitment.
- For each PVC not meeting this commitment for a specific calendar month, credits for the affected DLCI pair will be issued as follows:

. Recurring Charge Credit Per DLCI pair:	\$	3.00
. Recurring CIR Credit per DLCI pair:		
0 Bps CIR	\$	0.00
>0-32 Kbps CIR		6.30
>32-56 Kbps CIR		10.80
>56-64 Kbps CIR		11.70
>64-128 Kbps CIR		16.20
>128-256 Kbps CIR		21.60

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.3 Technical Specifications

The provision of MSFRS requires the applicable MSFRS Connection component. In addition, customers may add optional features. Each of the components of the service are described in this Section.

All services installed after the effective date of this tariff will conform to the transmission specification standards in the following references:

- UNI specifications for MSFRS are:

ANSI T1.617-1991, "Integrated Services Digital Network (ISDN) - Digital Subscriber Signaling System No. 1 (DSS1) - Signaling Specification for Frame Relay Service", American National Standards Institute, and ANSI T1.618-1991, "Integrated Services Digital Network (ISDN) - Core Aspects of Frame Relay Bearer Service", American National Standards Institute.

Document No. 001-208966, "Frame Relay Specification with Extension Based on Proposed T1S1 Standards", Digital Equipment Corporation, Northern Telecom, Inc., and StrataCom, Inc.

BellSouth Technical Reference 73587, "Frame Relay Service Interface & Performance Specifications" provides performance specifications and service details.

- NNI specifications for MSFRS are:

Frame Relay Forum Document FRF.2.1, "Frame Relay Network-to-Network Interface Implementation Agreement".

BellSouth Technical Reference 73587, "Frame Relay Service Interface & Performance Specifications" provides performance specifications and service details.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.4 Interface Specifications

The following specifications of network interfaces are available with MSFRS Connections:

Digital packet (UNI)  
Digital packet (NNI)

21.3.5 Acceptance Testing

At no additional charge, and at the customer's request, the Telephone Company will cooperatively test at the time of installation.

21.3.6 Ordering Options and Conditions

The Access Order, as set forth in Section 5 preceding, is used in the provisioning of MSFRS. Also included in that section are other charges that may be associated with ordering MSFRS (e.g., Service Date Change Charges, Cancellation Charges, etc.).

21.3.7 Minimum Period of Service

The minimum period is one month.

21.3.8 Rate Regulations

Rates and charges are specified in 21.3.10 following for MSFRS. Unless specified otherwise, MSFRS is available for use with the Fast Packet Savings Plan subject to the regulations provided in 2.3.8.(F) preceding.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3.9 Rate Categories

The following rate categories apply to MSFRS:

(A) MSFRS Connections

This rate category provides for the transport from the customer's premises to the MSFRS network. This rate category includes the packet switching function and the connectivity of all MSFRS switches within a MSFRS Service Area. An Initial DLCI is included with each standard or primary MSFRS Connection. A nonrecurring charge and monthly rate applies per standard or primary MSFRS Connection and per MSFRS Back-Up Connection.

A nonrecurring Primary MSFRS Connection Enablement/Change Charge provided in 21.3.10(F) following is applicable: 1) per existing standard MSFRS Connection requested to be converted to a primary MSFRS Connection (i.e., to be back-up enabled), 2) per existing primary MSFRS Connection requested to be converted to a standard Network Interface (i.e., to disable the capability to be used with a MSFRS Back-Up Connection), and 3) per existing primary MSFRS Connection requested to be reassigned to work with a different MSFRS Back-Up Connection. The Primary MSFRS Connection Enablement/Change Charge shall only be applied when the customer provides the appropriate information on all of the service orders required such that all orders involved can be related and worked together. Failure by the customer(s) to provide adequate information to allow the orders to be appropriately related together will result in the billing of such orders as individual disconnects and new connects.

A customer request to convert a standard or primary MSFRS Connection to a MSFRS Back-Up Connection (or vice versa) shall be treated as a disconnect and new connect.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rate Categories (Cont'd)

(A) MSFRS Connections (Cont'd)

When a MSFRS customer moves (physically changes to another premises), the MSFRS Connection associated with the former location shall be disconnected and the service at the new location shall be considered as a new installation; nonrecurring charges shall apply for the installation of service at the new location.

A MSFRS customer request to change an existing MSFRS Connection to a different transmission speed shall be considered as a request for the disconnect of the existing service and a new installation of the different speed MSFRS Connection. Nonrecurring charges shall apply for the different speed MSFRS Connection.

A MSFRS customer request to change an existing MSFRS Connection to a Managed Shared ATM Service Connection (MSATMS) will be treated as a request for the disconnect of the MSFRS and a new installation of the MSATMS.

(B) MSFRS Meetpoint Extended Connections

MSFRS Meetpoint Extended Connections represents that portion of the MSPS service provided within BellSouth Territory (inclusive of a port on the switch, network serving area transport, and transport within BellSouth Territory outside the network serving area to the Independent Telephone Company meetpoint).

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rate Categories (Cont'd)

(C) Optional Features

The Optional Features rate category provides for optional features that may be added to MSFRS to improve its quality or utility to meet specific communications requirements.

(1) DLCIs per MSFRS Connection (UNI or NNI)

This feature provides for the assignment of a Data Link Channel Identifier (DLCI) per PVC requested on a MSFRS Connection (UNI or NNI). One DLCI is required per MSFRS Connection in order to form a single PVC. When a DLCI from each of two MSFRS Connections are mapped together through the service provisioning process, a single PVC is created. On an optional basis, a single PVC may also be created via the mapping of a DLCI to an ATM PVC Segment. Multiple DLCIs (and therefore, PVCs) may be associated with a single MSFRS Connection. A Standard PVC is created via the mapping of two Standard DLCIs; on an optional basis, features are available to allow the creation of Priority PVCs and PVCs established via Frame Relay to ATM Network Interworking with an ATM Service network interface.

One Initial DLCI (either one Initial Standard DLCI or one Initial Priority DLCI) is available with each MSFRS when that DLCI is requested with the installation of the MSFRS Connection. Additional DLCI charges apply for every DLCI after the initial DLCI requested with the MSFRS Connection and for any DLCIs ordered subsequent to the installation of the MSFRS Connection. A nonrecurring charge and monthly rate applies per Additional DLCI requested. A DLCI which is not a Priority DLCI, as discussed following, is referred to as a Standard DLCI.

Priority PVC capability allows a customer to differentiate specific PVCs with regard to the importance of the data within those PVCs as compared to other PVCs. In the case of contention or network congestion, the network will give precedence to the frames of a Priority PVC over frames of a Standard PVC. MSFRS allows the creation of Priority PVCs. Such a Priority PVC is formed by the mapping of two Priority DLCIs (as set forth in 21.3.10(B)(1)); these Priority DLCIs must have an associated CIR value of greater than zero. A request to convert an existing Standard PVC to a Priority PVC (or vice versa) shall be considered as a request to disconnect the existing DLCIs and as a request to connect the new DLCIs.

When a PVC is requested to be disconnected, the monthly rates appropriate for the two DLCIs comprising the PVC will be discontinued.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rate Categories (Cont'd)

(C) Optional Features (Cont'd)

(1) DLCIs per MSFRS Connection (UNI or NNI) (Cont'd)

The aforementioned individual DLCI charges are not applicable to the standard configurable DLCIs provided within a Configurable DLCI Bundle associated with optional Customer Configuration Management Capability described in 21.3.9.(B)(7) following. Configurable DLCIs are considered as additional DLCIs.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rate Categories (Cont'd)

(C) Optional Features (Cont'd)

(2) Committed Information Rate (CIR)

Committed Information Rate is a per DLCI feature that enables the customer to select a sustained throughput under normal conditions for the data transmitted within that PVC. A CIR must be selected for each DLCI within a PVC; both CIR values must be the same. The CIR value selected cannot exceed the minimum transmission speed of the MSFRS Connection at either end of the PVC. (The Frame Relay network's burst capability and discard eligible feature are described in TR 73587.)

A standard CIR rate element is applicable per DLCI<sup>1</sup> when it is to be mapped to another DLCI to form a single PVC.

A Frame Relay to ATM Network Interworking CIR rate element is applicable per DLCI when it is to be mapped to an ATM Service PVC Segment to form a single Frame Relay to ATM Network Interworking PVC. The mapping of a DLCI to an ATM PVC Segment is permitted on a per PVC basis. The Frame Relay data is essentially encapsulated in an ATM Service bit stream and retrieved by the ATM Customer's CPE as Frame Relay. Associated rates and charges for the related ATM Service apply as usual from the appropriate ATM Service tariff. Only Frame Relay DLCIs and ATM PVC Segments of a comparable quality of service can be mapped together to form a single PVC; the specific combinations of Frame Relay DLCIs and ATM PVC Segments permitted to be mapped together are as follows:

<u>Frame Relay DLCI:</u>		<u>ATM PVC Segment<sup>2</sup>:</u>
-Non-priority with 0 CIR	and	UBR
-Non-priority with >0 CIR	and	VBR-NRT
-Priority with >0 CIR	and	VBR-RT

The rate elements for standard CIR with a value greater than zero and all Frame Relay to ATM Network Interworking CIR have a separate charge. The CIR rate element applies per DLCI and has a monthly rate only.

Note 1: Not applicable to the standard configurable DLCIs provided within a Configurable DLCI Bundle (which include CIR of up to 64 Kbps per configurable DLCI) associated with optional CNM-Customer Configuration Management Capability.

Note 2: Due to technical limitations a mapping combination involving an ATM CBR PVC Segment is not possible.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rate Categories (Cont'd)

(C) Optional Features (Cont'd)

(2) Committed Information Rate (CIR) (Cont'd)

Subsequent to the initial provisioning of a PVC, a customer may request that the CIR value be changed. A Feature Change Charge as specified in 21.3.9(C) applies per DLCI per PVC for such requests.

When a specific PVC is requested to be disconnected, the monthly rates appropriate for the CIR of the two DLCIs comprising the PVC will be discontinued.

The CIR value of Priority DLCIs must be greater than zero.

(3) Inter Service Area Link (ISAL)

The Telephone Company may establish facilities between MSFRS switching equipment in different Service Areas in the same LATA and may allow customers to share bandwidth on these facilities. Where these shared facilities are available to customers, an Inter Service Area Link is an Optional Feature that allows the customer to establish a PVC link between MSFRS Connections in the two different Service Areas.

The customer must request an Inter Service Area Link that provides the extension of a PVC between two Service Areas. Each link has an associated CIR that must match the CIR of the DLCIs associated with the PVC. One end-to-end PVC exists between both customer premises through an Inter Service Area Link.

The appropriate rates and charges for the Inter Service Area Link are from 21.3.10(B)(4) and are applied per end of link.<sup>1</sup> A nonrecurring charge and monthly rate applies for each end of the Inter Service Area Link. The ISAL CIR charges are in addition to the associated DLCI and CIR charges from 21.3.10(B)(1), (2) and (3) that are applicable for the portions of this PVC in each Service Area.

Note 1: These charges are not applicable for ISAL CIR provided for configurable PVCs mapped from Configurable DLCI Bundles (which include both CIR and ISAL CIR of up to 64 Kbps per configurable DLCI) associated with optional Customer Configuration Management Capability.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rate Categories (Cont'd)

(C) Optional Features (Cont'd)

(4) MultiCast PVC

MultiCast PVC capability allows a customer to establish a one-to-many broadcasting PVC that distributes data simultaneously from a host site to a group of predetermined remote sites (called a MultiCast PVC Group). Transmission on a MultiCast PVC is unidirectional (from the host to the remotes in each MultiCast PVC Group). All sites in a MultiCast PVC Group will be able to simultaneously receive a single packet transmission transmitted from the host; upon transmission from the host, the Frame Relay network replicates and distributes the packets to the various remote sites identified as members of the MultiCast PVC Group. A MultiCast PVC may be established as a Standard MultiCast PVC or a Priority MultiCast PVC (refer to description of Priority PVC capability discussed in 21.3.9(B)(1) preceding).

To create a MultiCast PVC, the customer must have established individual PVCs between the MSFRS Connection of the host site and each MSFRS Connection of each remote site that is to be a member of that specific MultiCast PVC Group. Standard tariff charges apply for the establishment of the DLCIs, CIR, etc. associated with these member PVCs. While these standard PVCs will be identified as members of a MultiCast PVC Group (and as such receive the unidirectional broadcast transmission from the host site), each individual PVC is still a bi-directional PVC capable of being used by the host site and remote site to communicate independently of the MultiCast PVC Group.

The customer shall provide a unique DLCI number to be used to identify each MultiCast PVC Group associated with a host site; this unique DLCI number will be used in establishing the MultiCast PVC and shall be utilized on an ongoing basis to refer to that specific MultiCast PVC when requesting any subsequent change activity to the associated MultiCast PVC Group. A host site can have more than one MultiCast PVC. A remote site can be a part of multiple MultiCast PVC Groups associated with the same or multiple other host site(s).

Each MultiCast PVC Group shall be established as a Standard MultiCast PVC Group or a Priority MultiCast PVC Group. A Standard MultiCast PVC Group shall be comprised of member PVCs established utilizing all Standard DLCIs; while not specifically required, it is strongly recommended that each member PVC in a Standard MultiCast PVC have DLCIs with an associated CIR value of greater than zero. A Priority MultiCast PVC Group shall be comprised of member PVCs established utilizing all Priority DLCIs; each member PVC in a Priority MultiCast PVC is required to have Priority DLCIs with an associated CIR value of greater than zero.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rate Categories (Cont'd)

(C) Optional Features (Cont'd)

(4) MultiCast PVC (Cont'd)

One MultiCast PVC Group Charge shall apply and be billed to the host site in association with each MultiCast PVC established. The appropriate MultiCast PVC Group Charge varies based 1) upon whether the MultiCast PVC is to be a Standard MultiCast PVC or a Priority MultiCast PVC and 2) upon the transmission speed of the host site MSFRS Connection (e.g., the Priority 1.536 Mbps MultiCast PVC Group Charge would be applicable for a Priority MultiCast PVC established on a 1.536 Mbps MSFRS Connection).

A MultiCast PVC Group Modification Charge applies per member PVC that is to be modified, added to or deleted from an existing MultiCast PVC Group, subsequent to the initial establishment of the MultiCast PVC. The MultiCast PVC Group Modification Charges are billed to the host MSFRS Connection.

If a Standard MultiCast PVC is requested to be changed to a Priority MultiCast PVC (or vice versa), Feature Change Charges apply (as set forth in 21.3.10(B) following) to change each DLCI in each member PVC from Standard to Priority (or vice versa). In addition to the nonrecurring charge associated with the MultiCast PVC Group Charge billed to the host for this change request, a MultiCast PVC Group Modification Charge shall also apply per member PVC so modified in the MultiCast PVC Group.

The host and remote sites associated with a MultiCast PVC are required to be MSFRS Connections as it is not currently technically feasible to utilize Frame Relay to ATM Interworking within a MultiCast PVC arrangement. The MSFRS Connection associated with the host site must be of a transmission speed equal to or greater than 1.536 Mbps. For further information, refer to TR 73587 regarding configuration of MultiCast PVC.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rates Categories (Cont'd)

(C) Optional Features (Cont'd)

(5) Intelligent PVC

Intelligent PVC capability allows automatic rerouting on a per PVC basis within the Frame Relay Service network. The Intelligent PVC feature is associated with a customer-specified three DLCI PVC. With the Intelligent PVC feature, a PVC is established between an originating DLCI (referred to as the pivot endpoint) and a primary terminating DLCI (referred to as the primary endpoint). Frames from the originating DLCI (pivot endpoint) will automatically be rerouted to a secondary terminating DLCI (referred to as the secondary endpoint) if the Frame Relay switch detects trouble associated with the primary terminating DLCI (primary endpoint). After such rerouting, the Frame Relay switch will continue to monitor the signals from the primary endpoint and when the trouble is cleared, will automatically reroute the frames going to the secondary endpoint back to the primary endpoint. The BellSouth document TR-73587 provides more detailed technical information on how Intelligent PVC capability is provided.

To create an Intelligent PVC, the customer requests the mapping of three DLCIs. An Intelligent PVC may be comprised of three Standard DLCIs or three Priority DLCIs. One Intelligent PVC Charge (a recurring rate) applies per customer-specified arrangement of three DLCIs and applies in addition to the appropriate nonrecurring and recurring charges for each of the three DLCIs. The Intelligent PVC Charge shall be billed to the MSFRS Connection associated with the DLCI which is the pivot endpoint of this PVC.

A request to convert an existing two DLCI PVC into a three DLCI Intelligent PVC (or vice versa) shall be considered as a request to disconnect the existing PVC and as a request for connection of new DLCIs to form the new PVC.

The pivot endpoint of an Intelligent PVC must be provisioned out of a Company-provided Frame Relay switch. (If only Company provided switches are utilized in the total service configuration, no service limitations should occur; however, when a non-Company switch is involved in an Intelligent PVC configuration, service limitations may be encountered.)

Both the primary and secondary endpoints of an Intelligent PVC must be of the same service type.

Additionally, an Intelligent PVC configuration is not currently available with Manual Back-Up Capability or Automatic Back-Up Capability.



ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rates Categories (Cont'd)

(C) Optional Features (Cont'd)

(6) Special Provisioning

MSFRS Special Provisioning (SP) provides redundancy for both the switch ports and the transport within the MSPS Serving Area, from the customer's serving wire center to the broadband switch. The SP feature pairs two circuits together to minimize the risk that a single network element failure will result in a service interruption of both circuits. MSFRS Special Provisioning is available in 56 Kbps and 64 Kbps speeds. It is not available with MultiLink Frame Relay.

MSFRS Special Provisioning provides diversity for both the switch ports and the interoffice transport from the customer's serving wire center within the Serving Area to the switch. Two MSFRS circuits may share an electronic device only if the device provides automatic protection switching in the event of an electronic or facility failure.

Port Diversity for MSFRS Special Provisioning is accomplished via two options: Different Switch Diversity or Same Switch Diversity.

Different Switch Diversity allows port protection by provisioning two circuits on different switches, providing against port, card or switch failure. Both switches must be identified as having spare capacity, and will be provided by the Company where available.

If multiple switches with spare capacity do not exist in the central office providing switching, then the Company will choose to implement port protection by placing the two circuits on different cards on the switch (i.e. Same Switch Diversity). For Same Switch Diversity, there are separate cards associated with each circuit.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rates Categories (Cont'd)

(C) Optional Features (Cont'd)

(7) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability<sup>(1)</sup>

CNM-Customer Configuration Management Capability is optionally available for an MSFRS customer to have the ability to add, change and delete PVCs for their MSFRS Connection themselves, without utilizing the standard ordering/provisioning process to request the Company to perform these functions. PVCs created thru the standard ordering/provisioning process by the Company are standard non-configurable PVCs and cannot be modified by the customer as described herein thru CNM-Customer Configuration Management Capability; the customer is billed the preceding DLCI and CIR rates and charges for standard non-configurable PVCs. PVCs created thru CNM-Customer Configuration Management Capability are referred to as configurable PVCs and may be created and modified by the customer as described herein; the customer is billed the charges described following for such configurable PVCs. A customer may choose to utilize one or both of these methods for establishing PVCs on a given MSFRS Connection. Due to technical limitations, CNM-Customer Configuration Management Capability is not available on an MSFRS MultiLink Connection or on an MSFRS Connection which is a "primary" network interface in association with Back-Up Capability.

- (a) CNM-Customer Configuration Management Capability is available only for MSFRS Connections equipped with BellSouth CNM-NVS and is available only for the customer to add, modify or delete configurable PVCs formed between similarly equipped Frame Relay service with CNM-NVS and CNM-Customer Configuration Management Capability.
- (b) CNM-Customer Configuration Management Capability is established via the standard ordering/provisioning process on a per MSFRS Connection basis when a minimum of one Configurable DLCI Bundle is ordered.
- (c) DLCIs in a Configurable DLCI Bundle will be referred to as configurable DLCIs. Two configurable DLCIs mapped thru CNM-Customer Configuration Management Capability form a configurable PVC.
- (d) To utilize CNM-Customer Configuration Management Capability, each MSFRS Connection must have a minimum of one Configurable DLCI Bundle ordered by the customer. More than one Configurable DLCI Bundle may be ordered for a specific MSFRS Connection to establish the block, or total quantity, of configurable DLCIs available for that MSFRS Connection. The block of configurable DLCIs established are only for the use of that single MSFRS Connection may not be "shared" with other MSFRS Connections.

<sup>(1)</sup> Effective May 16, 2008, BellSouth CNM-Customer Configuration Management Capability will not be available for new customer orders. Customers with existing service may continue using the service but new orders will not be accepted.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rates Categories (Cont'd)

(C) Optional Features (Cont'd)

(7) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability (Cont'd)

- (e) A monthly rate applies for each Configurable DLCI Bundle ordered and the rate varies based upon the quantity of configurable DLCIs included in each bundle. Each Configurable DLCI Bundle provides a specific quantity of standard configurable DLCIs, each with a maximum CIR and ISAL CIR of up to 64 Kbps per configurable DLCI. Customers will order the quantity and size bundles that will provide the total quantity or block of configurable DLCIs needed for an MSFRS Connection. The configurable DLCI block quantity is then the customer-established limit of the number of configurable DLCIs which the customer may manage on a specific MSFRS Connection. The block of configurable DLCIs selected for an MSFRS Connection may be increased or decreased as the customer's needs change. The Configurable DLCI Block Establishment/Change Charge is the nonrecurring charge applicable for initially ordering and provisioning the Configurable DLCI Bundle(s) to establish the configurable DLCI block and for making a subsequent request to change the block size (i.e., add or delete bundles).
- (f) The Configurable DLCI Block Establishment/Change Charge is a nonrecurring charge applicable to initially establish the block of configurable DLCIs for an MSFRS Connection. This charge is also applicable per subsequent request to change the size of the configurable DLCI block. Only one such nonrecurring charge applies per request regardless of how many Configurable DLCI Bundles are requested to initially establish the block or are requested subsequently to be added or deleted.
- (g) With CNM-Customer Configuration Management Capability the customer will have the capability to add, change and/or delete configurable PVCs formed by the mapping of two configurable DLCIs. A PVC cannot be established between a configurable DLCI and a non-configurable DLCI thru either CNM-Customer Configuration Management Capability or thru the standard ordering/provisioning process. CNM-Customer Configuration Management Capability cannot be utilized to make changes to a non-configurable PVC, and the standard ordering/provisioning process cannot be utilized to create, modify or delete a configurable PVC.
- (h) As a current technical limitation CNM-Customer Configuration Management Capability cannot be utilized for Priority PVCs, Intelligent PVCs, MultiCast PVCs or Frame Relay to ATM Interworking PVCs. Therefore, requests for these types of PVCs will have to be made thru the standard ordering/provisioning process for the Company to provision and will be subject to the preceding standard rates and charges for such features.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rates Categories (Cont'd)

(C) Optional Features (Cont'd)

(7) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability (Cont'd)

- (i) CNM-Customer Configuration Management Capability may only be utilized to create configurable PVCs between two Frame Relay services equipped with CNM-NVS and CNM-Customer Configuration Management Capability within the same LATA.
- (j) A customer may request that some or all of the standard DLCIs associated with an existing MSFRS Connection with CNM-Customer Configuration Management Capability be converted to Configurable DLCIs. Only standard DLCIs that are mapped to other Network Interfaces also equipped for CNM-Customer Configuration Management can be converted (subject to any limitations set forth herein 21.1.9.(B)(6) on what types of MSFRS Connections and PVCs are technically compatible with CNM-Customer Configuration Management Capability). The DLCI Conversion Charge is the nonrecurring charge applicable per standard DLCI requested to be converted to a configurable DLCI. Once converted to a configurable DLCI, that DLCI will be counted against the MSFRS Connection configurable DLCI block quantity; monthly rates for the standard DLCI and associated CIR and ISAL CIR will concurrently no longer apply.
- (k) A customer may request that some or all of the configurable DLCIs associated with an existing MSFRS Connection with CNM-Customer Configuration Management Capability be converted to standard DLCIs which the customer will no longer manage. Such requests will convert the configurable DLCI "as is" to a standard DLCI (i.e., standard additional DLCI with same CIR and ISAL CIR value). The DLCI Conversion Charge is the nonrecurring charge applicable per configurable DLCI requested to be converted to a standard DLCI. Once converted to a standard DLCI, that DLCI (and associated CIR and ISAL CIR) will begin billing the standard DLCI, CIR and ISAL CIR monthly rates and will concurrently no longer count against the configurable DLCI block quantity for that MSFRS Connection.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rates Categories (Cont'd)

(C) Optional Features (Cont'd)

(7) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability (Cont'd)

- (1) After the customer has established CNM-Customer Configuration Management Capability (by ordering Configurable DLCI Bundles to establish the configurable DLCI block for each MSFRS Connection) for their network, the customer will have access thru the NVS system to mechanically add, change and delete configurable PVCs between these Connections.
- (m) A CNM-Customer Configuration Management service request is made thru CNM-NVS for a specific PVC activity (e.g., add configurable PVC, change CIR or endpoint on an existing configurable PVC, delete configurable PVC, etc.) involving MSFRS Connections equipped with CNM-Customer Configuration Management Capability. Each CNM-Customer Configuration Management service request will be assigned a service request number to facilitate customer questions and to enable status and tracking.
- (n) A CNM-Customer Configuration Management service request will be provisioned within minutes; however a Cancellation Window of two hours is allowed after successful provisioning during which time the customer may submit a request thru CNM-NVS to cancel or "undo" the request before the change becomes permanent. The customer may specifically request to forgo (close) the Cancellation Window during which a particular service request may be cancelled and commit that CNM-NVS make the service request provisioning become permanent immediately. When the Cancellation Window expires without the customer canceling the service request or the customer foregoes/closes the Cancellation Window, the provisioned service request is made permanent and considered a completed transaction.
- (o) CNM-Customer Configuration Management Capability effectively provides the customer near real-time processing capability to allow them to manage the provisioning and change activities for configurable PVCs within their network. However, access to CNM-Customer Configuration Management Capability is not guaranteed for customer access and use twenty-four hours a day/seven days a week. Customer access may be periodically preempted for higher priority Company network management and maintenance activities. Customer inability to access the CNM-NVS/CNM-Customer Configuration Management systems during these periods will not be considered a service outage.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rate Categories (Cont'd)

(D) Feature Change Charge

A Feature Change Charge applies for a customer request to change an existing MSFRS Optional Feature for which there is no nonrecurring charge. (Examples: A Feature Change Charge applies for a customer request to change the CIR value associated with an existing DLCI. A Feature Change Charge applies for a customer request to change the CIR value associated with an existing DLCI and related ISAL CIR.)

A Feature Change Charge applies in lieu of standard MSFRS nonrecurring charges for a customer request where no physical work is required to convert the customer's existing service to MSFRS from Exchange Access Frame Relay Service and Special Access; standard MSFRS nonrecurring charges apply for such requests when any physical work is required.

(E) Transfer of Service

When a change to the customer of record is requested, transfer of service charges, as set forth in 21.3.10(D) following will apply. Charges are applied on a Billing Account Number (BAN).

Administrative changes, as identified below, will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Access Service to the same entity (i.e., customer remains responsible for all outstanding indebtedness for Access Service). Administrative changes are as follows:

- Change of customer name (i.e., the customer of record does not change but rather the customer of record changes its name -- e.g., AT&T-Long Lines to AT&T-Long Lines to AT&T-Communications),
- Change of customer or customer's end user premises address when the change of address is not a result of physical relocation of equipment,
- Change in billing data (name, address, or contract name or telephone number. The customer of record does not change),
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name of telephone number, and
- Change of jurisdiction.

All other service arrangements, including physical changes to existing services, will be charged as follows:

- If the change involves the addition of an optional feature that has a separate nonrecurring charge, that nonrecurring charge will apply.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.9 Rate Categories (Cont'd)

The following provides an illustrative customer configuration to depict the application of the MSFRS rate categories.

A customer has three premises within a single LATA between which he needs to transmit data. Within this particular LATA there are two MSFRS Service Areas. Premises A and B are provisioned from Service Area 1; Premises C is provisioned from Service Area 2. Premises A requires a 44.210 Mbps UNI MSFRS Connection because its serving wire center is a SAP in Service Area 1. Premises B requires a 1.536 Mbps UNI Extended Connection (Over 0 to 20 miles) because its serving wire center is outside the Service Area, 15 miles from the closest MSFRS Service Area Point. Premises C requires a 64 Kbps UNI MSFRS Connection because its serving wire center is a SAP in Service Area 2.

The customer would like to establish three PVCs. "PVC I" is a 768 Kbps CIR PVC from Premises A to Premises B. "PVC II" is a zero CIR PVC from Premises A to Premises B. "PVC 3" is a 64 Kbps CIR PVC from Premises A to Premises C. The following rate elements shown by premises would be applicable for this service configuration:

	<u>Premises A</u>	<u>Premises B</u>	<u>Premises C</u>
MSFRS Connection:	44.210 Mbps UNI	1.536 Mbps UNI	64 Kbps UNI
-PVC I:	Initial DLCI 768 Kbps CIR	Initial DLCI 768 Kbps CIR	
-PVC II:	Additional DLCI Zero CIR	Additional DLCI Zero CIR	
-PVC III:	Additional DLCI 64 Kbps CIR 64 Kbps ISAL CIR		Initial DLCI 64 Kbps CIR 64 Kbps ISAL CIR

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(A) MSFRS Connections  
 (1) UNI

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
56 Kbps (BCOS : MS9X5)					
- MSFRS Connection	MS9TU	\$ 150.00	\$ 130.00	\$ 100.00	\$ 850.00
- MSFRS Extended Connection <sup>1</sup>	1L5WE	170.00	145.00	110.00	925.00
- MSFRS Extended Connection <sup>2</sup>	1L5WE	180.00	153.00	115.00	925.00
- MSFRS Extended Connection <sup>3</sup>	1L5WE	200.00	168.00	125.00	925.00
- MSFRS Extended Connection <sup>4</sup>	1L5WE	210.00	175.00	130.00	925.00
- MSFRS Extended Connection <sup>5</sup>	1L5WE	220.00	183.00	135.00	925.00
- MSFRS Extended Connection <sup>6</sup>	1L5WE	230.00	190.00	140.00	925.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Connection	MS9TU	\$ 150.00	\$ 130.00	\$ 100.00	\$ 850.00
- MSFRS Extended Connection <sup>1</sup>	1L5WE	170.00	145.00	110.00	925.00
- MSFRS Extended Connection <sup>2</sup>	1L5WE	180.00	153.00	115.00	925.00
- MSFRS Extended Connection <sup>3</sup>	1L5WE	200.00	168.00	125.00	925.00
- MSFRS Extended Connection <sup>4</sup>	1L5WE	210.00	175.00	130.00	925.00
- MSFRS Extended Connection <sup>5</sup>	1L5WE	220.00	183.00	135.00	925.00
- MSFRS Extended Connection <sup>6</sup>	1L5WE	230.00	190.00	140.00	925.00

- Note 1: Customer Premises SWC is over 0 to 20 miles outside Service Area.
- Note 2: Customer Premises SWC is over 20 to 50 miles outside Service Area.
- Note 3: Customer Premises SWC is over 50 to 75 miles outside Service Area.
- Note 4: Customer Premises SWC is over 75 to 100 miles outside Service Area.
- Note 5: Customer Premises SWC is over 100 to 125 miles outside Service Area.
- Note 6: Customer Premises SWC is over 125 miles outside Service Area.



ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)  
 (1) UNI (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
112 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UA	\$ 255.00	\$ 232.00	205.00	\$ 925.00
- MSFRS Extended Connection <sup>1</sup>	MS9EA	415.00	363.00	315.00	1,045.00
- MSFRS Extended Connection <sup>2</sup>	MS9EA	535.00	459.00	377.00	1,045.00
- MSFRS Extended Connection <sup>3</sup>	MS9EA	635.00	538.00	433.00	1,045.00
- MSFRS Extended Connection <sup>4</sup>	MS9EA	755.00	631.00	500.00	1,045.00
- MSFRS Extended Connection <sup>5</sup>	MS9EA	855.00	708.00	554.00	1,045.00
- MSFRS Extended Connection <sup>6</sup>	MS9EA	955.00	785.00	627.00	1,045.00
128 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UB	\$ 255.00	\$ 232.00	205.00	\$ 925.00
- MSFRS Extended Connection <sup>1</sup>	MS9EB	415.00	363.00	315.00	1,045.00
- MSFRS Extended Connection <sup>2</sup>	MS9EB	535.00	459.00	377.00	1,045.00
- MSFRS Extended Connection <sup>3</sup>	MS9EB	635.00	538.00	433.00	1,045.00
- MSFRS Extended Connection <sup>4</sup>	MS9EB	755.00	631.00	500.00	1,045.00
- MSFRS Extended Connection <sup>5</sup>	MS9EB	855.00	708.00	554.00	1,045.00
- MSFRS Extended Connection <sup>6</sup>	MS9EB	955.00	785.00	627.00	1,045.00

- Note 1: Customer Premises SWC is over 0 to 20 miles outside Service Area.
- Note 2: Customer Premises SWC is over 20 to 50 miles outside Service Area.
- Note 3: Customer Premises SWC is over 50 to 75 miles outside Service Area.
- Note 4: Customer Premises SWC is over 75 to 100 miles outside Service Area.
- Note 5: Customer Premises SWC is over 100 to 125 miles outside Service Area.
- Note 6: Customer Premises SWC is over 125 miles outside Service Area.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)  
 (1) UNI (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
192 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UC	\$ 320.00	\$ 292.00	\$ 258.00	\$ 925.00
- MSFRS Extended Connection <sup>(1)</sup>	MS9EC	480.00	420.00	364.00	1,045.00
- MSFRS Extended Connection <sup>(2)</sup>	MS9EC	600.00	515.00	422.00	1,045.00
- MSFRS Extended Connection <sup>(3)</sup>	MS9EC	700.00	593.00	478.00	1,045.00
- MSFRS Extended Connection <sup>(4)</sup>	MS9EC	820.00	685.00	543.00	1,045.00
- MSFRS Extended Connection <sup>(5)</sup>	MS9EC	920.00	762.00	596.00	1,045.00
- MSFRS Extended Connection <sup>(6)</sup>	MS9EC	1020.00	839.00	669.00	1,045.00

<sup>(1)</sup> Customer Premises SWC is over 0 to 20 miles outside Service Area.

<sup>(2)</sup> Customer Premises SWC is over 20 to 50 miles outside Service Area.

<sup>(3)</sup> Customer Premises SWC is over 50 to 75 miles outside Service Area.

<sup>(4)</sup> Customer Premises SWC is over 75 to 100 miles outside Service Area.

<sup>(5)</sup> Customer Premises SWC is over 100 to 125 miles outside Service Area.

<sup>(6)</sup> Customer Premises SWC is over 125 miles outside Service Area.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)  
 (2) NNI

	<u>USOC</u>	<u>Month</u> to <u>Month</u>	<u>A</u> 12 to 24 <u>Months</u>	<u>B</u> 25 to 48 <u>Months</u>	<u>Nonrecurring</u> <u>Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Connection	MS9TN	\$ 150.00	\$ 130.00	\$ 100.00	\$ 850.00
- MSFRS Extended Connection <sup>1</sup>	1L5RE	170.00	145.00	110.00	925.00
- MSFRS Extended Connection <sup>2</sup>	1L5RE	180.00	153.00	115.00	925.00
- MSFRS Extended Connection <sup>3</sup>	1L5RE	200.00	168.00	125.00	925.00
- MSFRS Extended Connection <sup>4</sup>	1L5RE	210.00	175.00	130.00	925.00
- MSFRS Extended Connection <sup>5</sup>	1L5RE	220.00	183.00	135.00	925.00
- MSFRS Extended Connection <sup>6</sup>	1L5RE	230.00	190.00	140.00	925.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Connection	MS9TN	\$ 150.00	\$ 130.00	\$ 100.00	\$ 850.00
- MSFRS Extended Connection <sup>1</sup>	1L5RE	170.00	145.00	110.00	925.00
- MSFRS Extended Connection <sup>2</sup>	1L5RE	180.00	153.00	115.00	925.00
- MSFRS Extended Connection <sup>3</sup>	1L5RE	200.00	168.00	125.00	925.00
- MSFRS Extended Connection <sup>4</sup>	1L5RE	210.00	175.00	130.00	925.00
- MSFRS Extended Connection <sup>5</sup>	1L5RE	220.00	183.00	135.00	925.00
- MSFRS Extended Connection <sup>6</sup>	1L5RE	230.00	190.00	140.00	925.00

- Note 1: Customer Premises SWC is over 0 to 20 miles outside Service Area.
- Note 2: Customer Premises SWC is over 20 to 50 miles outside Service Area.
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- Note 5: Customer Premises SWC is over 100 to 125 miles outside Service Area.
- Note 6: Customer Premises SWC is over 125 miles outside Service Area.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)  
 (2) NNI (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
112 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9NA	\$ 255.00	\$ 232.00	\$ 205.00	\$ 925.00
- MSFRS Extended Connection <sup>1</sup>	MS90A	415.00	363.00	315.00	1,045.00
- MSFRS Extended Connection <sup>2</sup>	MS90A	535.00	459.00	377.00	1,045.00
- MSFRS Extended Connection <sup>3</sup>	MS90A	635.00	538.00	433.00	1,045.00
- MSFRS Extended Connection <sup>4</sup>	MS90A	755.00	631.00	500.00	1,045.00
- MSFRS Extended Connection <sup>5</sup>	MS90A	855.00	708.00	554.00	1,045.00
- MSFRS Extended Connection <sup>6</sup>	MS90A	955.00	785.00	627.00	1,045.00
128 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9NB	\$ 255.00	\$232.00	\$ 205.00	\$ 925.00
- MSFRS Extended Connection <sup>1</sup>	MS90B	415.00	363.00	315.00	1,045.00
- MSFRS Extended Connection <sup>2</sup>	MS90B	535.00	459.00	377.00	1,045.00
- MSFRS Extended Connection <sup>3</sup>	MS90B	635.00	538.00	433.00	1,045.00
- MSFRS Extended Connection <sup>4</sup>	MS90B	755.00	631.00	500.00	1,045.00
- MSFRS Extended Connection <sup>5</sup>	MS90B	855.00	708.00	554.00	1,045.00
- MSFRS Extended Connection <sup>6</sup>	MS90B	955.00	785.00	627.00	1,045.00

- Note 1: Customer Premises SWC is over 0 to 20 miles outside Service Area.  
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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)  
 (2) NNI (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
192 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9NC	\$ 320.00	\$ 292.00	\$ 258.00	\$ 925.00
- MSFRS Extended Connection <sup>(1)</sup>	MS90C	480.00	420.00	364.00	1,045.00
- MSFRS Extended Connection <sup>(2)</sup>	MS90C	600.00	515.00	422.00	1,045.00
- MSFRS Extended Connection <sup>(3)</sup>	MS90C	700.00	593.00	478.00	1,045.00
- MSFRS Extended Connection <sup>(4)</sup>	MS90C	820.00	685.00	543.00	1,045.00
- MSFRS Extended Connection <sup>(5)</sup>	MS90C	920.00	762.00	596.00	1,045.00
- MSFRS Extended Connection <sup>(6)</sup>	MS90C	1020.00	839.00	669.00	1,045.00

- (1) Customer Premises SWC is over 0 to 20 miles outside Service Area.
- (2) Customer Premises SWC is over 20 to 50 miles outside Service Area.
- (3) Customer Premises SWC is over 50 to 75 miles outside Service Area.
- (4) Customer Premises SWC is over 75 to 100 miles outside Service Area.
- (5) Customer Premises SWC is over 100 to 125 miles outside Service Area.
- (6) Customer Premises SWC is over 125 miles outside Service Area.

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ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(3) Manual Back-Up UNI

	<u>USOC</u>	<u>Month to Month</u>	<u>Plan A 12 to 24 Months</u>	<u>Plan B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Connection	MS9BU	\$ 75.00	\$ 66.00	\$ 51.00	\$ 850.00
- MSFRS Extended Connection <sup>1</sup>	MS9BV	85.00	74.00	56.00	925.00
- MSFRS Extended Connection <sup>2</sup>	MS9BV	90.00	78.00	59.00	925.00
- MSFRS Extended Connection <sup>3</sup>	MS9BV	100.00	85.00	64.00	925.00
- MSFRS Extended Connection <sup>4</sup>	MS9BV	105.00	89.00	66.00	925.00
- MSFRS Extended Connection <sup>5</sup>	MS9BV	110.00	93.00	69.00	925.00
- MSFRS Extended Connection <sup>6</sup>	MS9BV	115.00	96.00	71.00	925.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Connection	MS9BU	\$ 75.00	\$ 66.00	\$ 51.00	\$ 850.00
- MSFRS Extended Connection <sup>1</sup>	MS9BV	85.00	74.00	56.00	925.00
- MSFRS Extended Connection <sup>2</sup>	MS9BV	90.00	78.00	59.00	925.00
- MSFRS Extended Connection <sup>3</sup>	MS9BV	100.00	85.00	64.00	925.00
- MSFRS Extended Connection <sup>4</sup>	MS9BV	105.00	89.00	66.00	925.00
- MSFRS Extended Connection <sup>5</sup>	MS9BV	110.00	93.00	69.00	925.00
- MSFRS Extended Connection <sup>6</sup>	MS9BV	115.00	96.00	71.00	925.00

- Note 1: Customer Premises SWC is over 0 to 20 miles outside Service Area.  
 Note 2: Customer Premises SWC is over 20 to 50 miles outside Service Area.  
 Note 3: Customer Premises SWC is over 50 to 75 miles outside Service Area.  
 Note 4: Customer Premises SWC is over 75 to 100 miles outside Service Area.  
 Note 5: Customer Premises SWC is over 100 to 125 miles outside Service Area.  
 Note 6: Customer Premises SWC is over 125 miles outside Service Area.

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ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(4) Automatic Back-Up UNI

	<u>USOC</u>	<u>Month to Month</u>	<u>Plan A 12 to 24 Months</u>	<u>Plan B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Connection	MS9BW	\$ 75.00	\$ 66.00	\$ 51.00	\$ 850.00
- MSFRS Extended Connection <sup>1</sup>	MS9BX	85.00	74.00	56.00	925.00
- MSFRS Extended Connection <sup>2</sup>	MS9BX	90.00	78.00	59.00	925.00
- MSFRS Extended Connection <sup>3</sup>	MS9BX	100.00	85.00	64.00	925.00
- MSFRS Extended Connection <sup>4</sup>	MS9BX	105.00	89.00	66.00	925.00
- MSFRS Extended Connection <sup>5</sup>	MS9BX	110.00	93.00	69.00	925.00
- MSFRS Extended Connection <sup>6</sup>	MS9BX	115.00	96.00	71.00	925.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Connection	MS9BW	\$ 75.00	\$ 66.00	\$ 51.00	\$ 850.00
- MSFRS Extended Connection <sup>1</sup>	MS9BX	85.00	74.00	56.00	925.00
- MSFRS Extended Connection <sup>2</sup>	MS9BX	90.00	78.00	59.00	925.00
- MSFRS Extended Connection <sup>3</sup>	MS9BX	100.00	85.00	64.00	925.00
- MSFRS Extended Connection <sup>4</sup>	MS9BX	105.00	89.00	66.00	925.00
- MSFRS Extended Connection <sup>5</sup>	MS9BX	110.00	93.00	69.00	925.00
- MSFRS Extended Connection <sup>6</sup>	MS9BX	115.00	96.00	71.00	925.00

- Note 1: Customer Premises SWC is over 0 to 20 miles outside Service Area.  
 Note 2: Customer Premises SWC is over 20 to 50 miles outside Service Area.  
 Note 3: Customer Premises SWC is over 50 to 75 miles outside Service Area.  
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 Note 5: Customer Premises SWC is over 100 to 125 miles outside Service Area.  
 Note 6: Customer Premises SWC is over 125 miles outside Service Area.

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ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(5) Manual Back-Up NNI

	<u>USOC</u>	<u>Month to Month</u>	<u>Plan A 12 to 24 Months</u>	<u>Plan B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Connection	MS9BM	\$ 75.00	\$ 66.00	\$ 51.00	\$ 850.00
- MSFRS Extended Connection <sup>1</sup>	MS9BN	85.00	74.00	56.00	925.00
- MSFRS Extended Connection <sup>2</sup>	MS9BN	90.00	78.00	59.00	925.00
- MSFRS Extended Connection <sup>3</sup>	MS9BN	100.00	85.00	64.00	925.00
- MSFRS Extended Connection <sup>4</sup>	MS9BN	105.00	89.00	66.00	925.00
- MSFRS Extended Connection <sup>5</sup>	MS9BN	110.00	93.00	69.00	925.00
- MSFRS Extended Connection <sup>6</sup>	MS9BN	115.00	96.00	71.00	925.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Connection	MS9BM	\$ 75.00	\$ 66.00	\$ 51.00	\$ 850.00
- MSFRS Extended Connection <sup>1</sup>	MS9BN	85.00	74.00	56.00	925.00
- MSFRS Extended Connection <sup>2</sup>	MS9BN	90.00	78.00	59.00	925.00
- MSFRS Extended Connection <sup>3</sup>	MS9BN	100.00	85.00	64.00	925.00
- MSFRS Extended Connection <sup>4</sup>	MS9BN	105.00	89.00	66.00	925.00
- MSFRS Extended Connection <sup>5</sup>	MS9BN	110.00	93.00	69.00	925.00
- MSFRS Extended Connection <sup>6</sup>	MS9BN	115.00	96.00	71.00	925.00

- Note 1: Customer Premises SWC is over 0 to 20 miles outside Service Area.  
 Note 2: Customer Premises SWC is over 20 to 50 miles outside Service Area.  
 Note 3: Customer Premises SWC is over 50 to 75 miles outside Service Area.  
 Note 4: Customer Premises SWC is over 75 to 100 miles outside Service Area.  
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 Note 6: Customer Premises SWC is over 125 miles outside Service Area.



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ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(6) Automatic Back-Up NNI

	<u>USOC</u>	<u>Month to Month</u>	<u>Plan A 12 to 24 Months</u>	<u>Plan B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Connection	MS9B0	\$ 75.00	\$ 66.00	\$ 51.00	\$ 850.00
- MSFRS Extended Connection <sup>1</sup>	MS9BP	85.00	74.00	56.00	925.00
- MSFRS Extended Connection <sup>2</sup>	MS9BP	90.00	78.00	59.00	925.00
- MSFRS Extended Connection <sup>3</sup>	MS9BP	100.00	85.00	64.00	925.00
- MSFRS Extended Connection <sup>4</sup>	MS9BP	105.00	89.00	66.00	925.00
- MSFRS Extended Connection <sup>5</sup>	MS9BP	110.00	93.00	69.00	925.00
- MSFRS Extended Connection <sup>6</sup>	MS9BP	115.00	96.00	71.00	925.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Connection	MS9B0	\$ 75.00	\$ 66.00	\$ 51.00	\$ 850.00
- MSFRS Extended Connection <sup>1</sup>	MS9BP	85.00	74.00	56.00	925.00
- MSFRS Extended Connection <sup>2</sup>	MS9BP	90.00	78.00	59.00	925.00
- MSFRS Extended Connection <sup>3</sup>	MS9BP	100.00	85.00	64.00	925.00
- MSFRS Extended Connection <sup>4</sup>	MS9BP	105.00	89.00	66.00	925.00
- MSFRS Extended Connection <sup>5</sup>	MS9BP	110.00	93.00	69.00	925.00
- MSFRS Extended Connection <sup>6</sup>	MS9BP	115.00	96.00	71.00	925.00

- Note 1: Customer Premises SWC is over 0 to 20 miles outside Service Area.  
 Note 2: Customer Premises SWC is over 20 to 50 miles outside Service Area.  
 Note 3: Customer Premises SWC is over 50 to 75 miles outside Service Area.  
 Note 4: Customer Premises SWC is over 75 to 100 miles outside Service Area.  
 Note 5: Customer Premises SWC is over 100 to 125 miles outside Service Area.  
 Note 6: Customer Premises SWC is over 125 miles outside Service Area.

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(B) MSFRS Meetpoint Extended Connections  
 (1) UNI

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	1L5RU	\$ 150.00	\$ 128.00	\$ 97.00	\$ 575.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	1L5RU	160.00	136.00	102.00	575.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	1L5RU	180.00	151.00	113.00	575.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	1L5RU	190.00	158.00	118.00	575.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	1L5RU	200.00	166.00	123.00	575.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	1L5RU	210.00	173.00	128.00	575.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	1L5RU	\$ 150.00	\$ 128.00	\$ 97.00	\$ 575.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	1L5RU	160.00	136.00	102.00	575.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	1L5RU	180.00	151.00	113.00	575.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	1L5RU	190.00	158.00	118.00	575.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	1L5RU	200.00	166.00	123.00	575.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	1L5RU	210.00	173.00	128.00	575.00

- Note 1: Meetpoint is over 0 to 20 miles outside Service Area.  
 Note 2: Meetpoint is over 20 to 50 miles outside Service Area.  
 Note 3: Meetpoint is over 50 to 75 miles outside Service Area.  
 Note 4: Meetpoint is over 75 to 100 miles outside Service Area.  
 Note 5: Meetpoint is over 100 to 125 miles outside Service Area.  
 Note 6: Meetpoint is over 125 miles outside Service Area.

ISSUED: JUNE 16, 2011

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ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(B) MSFRS Meetpoint Extended Connections (Cont'd)

(1) UNI (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
112 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	MS9MA	\$ 385.00	\$ 337.00	\$ 292.00	\$ 770.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	MS9MA	505.00	433.00	356.00	770.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	MS9MA	605.00	512.00	413.00	770.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	MS9MA	725.00	606.00	480.00	770.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	MS9MA	825.00	683.00	535.00	770.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	MS9MA	925.00	760.00	607.00	770.00
128 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	MS9MB	\$ 385.00	\$ 337.00	\$ 292.00	\$ 770.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	MS9MB	505.00	433.00	356.00	770.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	MS9MB	605.00	512.00	413.00	770.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	MS9MB	725.00	606.00	480.00	770.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	MS9MB	825.00	683.00	535.00	770.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	MS9MB	925.00	760.00	607.00	770.00

Note 1: Meetpoint is over 0 to 20 miles outside Service Area.

Note 2: Meetpoint is over 20 to 50 miles outside Service Area.

Note 3: Meetpoint is over 50 to 75 miles outside Service Area.

Note 4: Meetpoint is over 75 to 100 miles outside Service Area.

Note 5: Meetpoint is over 100 to 125 miles outside Service Area.

Note 6: Meetpoint is over 125 miles outside Service Area.

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ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(B) MSFRS Meetpoint Extended Connections (Cont'd)  
 (1) UNI (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
192 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection <sup>(1)</sup>	MS9MC	\$ 450.00	\$ 394.00	\$ 314.00	\$ 770.00
- MSFRS Meetpoint Extended Connection <sup>(2)</sup>	MS9MC	570.00	489.00	401.00	770.00
- MSFRS Meetpoint Extended Connection <sup>(3)</sup>	MS9MC	670.00	567.00	457.00	770.00
- MSFRS Meetpoint Extended Connection <sup>(4)</sup>	MS9MC	790.00	660.00	523.00	770.00
- MSFRS Meetpoint Extended Connection <sup>(5)</sup>	MS9MC	890.00	737.00	577.00	770.00
- MSFRS Meetpoint Extended Connection <sup>(6)</sup>	MS9MC	990.00	814.00	650.00	770.00

- (1) Customer Premises SWC is over 0 to 20 miles outside Service Area.
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- (3) Customer Premises SWC is over 50 to 75 miles outside Service Area.
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ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(B) MSFRS Meetpoint Extended Connections  
 (2) NNI

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	1L5RN	\$ 150.00	\$ 128.00	\$ 97.00	\$ 575.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	1L5RN	160.00	136.00	102.00	575.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	1L5RN	180.00	151.00	113.00	575.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	1L5RN	190.00	158.00	118.00	575.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	1L5RN	200.00	166.00	123.00	575.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	1L5RN	210.00	173.00	128.00	575.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	1L5RN	\$ 150.00	\$ 128.00	\$ 97.00	\$ 575.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	1L5RN	160.00	136.00	102.00	575.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	1L5RN	180.00	151.00	113.00	575.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	1L5RN	190.00	158.00	118.00	575.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	1L5RN	200.00	166.00	123.00	575.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	1L5RN	210.00	173.00	128.00	575.00

- Note 1: Meetpoint is over 0 to 20 miles outside Service Area.
- Note 2: Meetpoint is over 20 to 50 miles outside Service Area.
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ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(B) MSFRS Meetpoint Extended Connections (Cont'd)  
 (2) NNI (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
112 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	MS9PA	\$ 385.00	\$ 337.00	\$ 292.00	\$ 770.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	MS9PA	505.00	433.00	356.00	770.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	MS9PA	605.00	512.00	413.00	770.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	MS9PA	725.00	606.00	480.00	770.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	MS9PA	825.00	683.00	535.00	770.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	MS9PA	925.00	760.00	607.00	770.00
128 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	MS9PB	\$ 385.00	\$ 337.00	\$ 292.00	\$ 770.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	MS9PB	505.00	433.00	356.00	770.00
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- MSFRS Meetpoint Extended Connection <sup>4</sup>	MS9PB	725.00	606.00	480.00	770.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	MS9PB	825.00	683.00	535.00	770.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	MS9PB	925.00	760.00	607.00	770.00

- Note 1: Meetpoint is over 0 to 20 miles outside Service Area.
- Note 2: Meetpoint is over 20 to 50 miles outside Service Area.
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ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(B) MSFRS Meetpoint Extended Connections (Cont'd)  
 (2) NNI (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>A 12 to 24 Months</u>	<u>B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
192 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection <sup>(1)</sup>	MS9PC	\$ 450.00	\$ 394.00	\$ 341.00	\$ 770.00
- MSFRS Meetpoint Extended Connection <sup>(2)</sup>	MS9PC	570.00	489.00	401.00	770.00
- MSFRS Meetpoint Extended Connection <sup>(3)</sup>	MS9PC	670.00	567.00	457.00	770.00
- MSFRS Meetpoint Extended Connection <sup>(4)</sup>	MS9PC	790.00	660.00	523.00	770.00
- MSFRS Meetpoint Extended Connection <sup>(5)</sup>	MS9PC	890.00	737.00	577.00	770.00
- MSFRS Meetpoint Extended Connection <sup>(6)</sup>	MS9PC	990.00	814.00	650.00	770.00

- (1) Customer Premises SWC is over 0 to 20 miles outside Service Area.
- (2) Customer Premises SWC is over 20 to 50 miles outside Service Area.
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ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(B) MSFRS Meetpoint Extended Connections (Cont'd)

(3) Manual Back-Up UNI

	<u>USOC</u>	<u>Month to Month</u>	<u>Plan A 12 to 24 Months</u>	<u>Plan B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	MS9BQ	\$ 75.00	\$ 65.00	\$ 50.00	\$ 575.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	MS9BQ	80.00	69.00	52.00	575.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	MS9BQ	90.00	77.00	57.00	575.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	MS9BQ	95.00	80.00	60.00	575.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	MS9BQ	100.00	84.00	63.00	575.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	MS9BQ	105.00	88.00	65.00	575.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	MS9BQ	\$ 75.00	\$ 65.00	\$ 50.00	\$ 575.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	MS9BQ	80.00	69.00	52.00	575.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	MS9BQ	90.00	77.00	57.00	575.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	MS9BQ	95.00	80.00	60.00	575.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	MS9BQ	100.00	84.00	63.00	575.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	MS9BQ	105.00	88.00	65.00	575.00

- Note 1: Meetpoint is over 0 to 20 miles outside Service Area.  
 Note 2: Meetpoint is over 20 to 50 miles outside Service Area.  
 Note 3: Meetpoint is over 50 to 75 miles outside Service Area.  
 Note 4: Meetpoint is over 75 to 100 miles outside Service Area.  
 Note 5: Meetpoint is over 100 to 125 miles outside Service Area.  
 Note 6: Meetpoint is over 125 miles outside Service Area.



ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(B) MSFRS Meetpoint Extended Connections (Cont'd)

(4) Automatic Back-Up UNI

	<u>USOC</u>	<u>Month to Month</u>	<u>Plan A 12 to 24 Months</u>	<u>Plan B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	MS9BR	\$ 75.00	\$ 65.00	\$ 50.00	\$ 575.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	MS9BR	80.00	69.00	52.00	575.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	MS9BR	90.00	77.00	57.00	575.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	MS9BR	95.00	80.00	60.00	575.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	MS9BR	100.00	84.00	63.00	575.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	MS9BR	105.00	88.00	65.00	575.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	MS9BR	\$ 75.00	\$ 65.00	\$ 50.00	\$ 575.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	MS9BR	80.00	69.00	52.00	575.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	MS9BR	90.00	77.00	57.00	575.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	MS9BR	95.00	80.00	60.00	575.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	MS9BR	100.00	84.00	63.00	575.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	MS9BR	105.00	88.00	65.00	575.00

Note 1: Meetpoint is over 0 to 20 miles outside Service Area.

Note 2: Meetpoint is over 20 to 50 miles outside Service Area.

Note 3: Meetpoint is over 50 to 75 miles outside Service Area.

Note 4: Meetpoint is over 75 to 100 miles outside Service Area.

Note 5: Meetpoint is over 100 to 125 miles outside Service Area.

Note 6: Meetpoint is over 125 miles outside Service Area.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(B) MSFRS Meetpoint Extended Connections (Cont'd)

(5) Manual Back-Up NNI

	<u>USOC</u>	<u>Month to Month</u>	<u>Plan A 12 to 24 Months</u>	<u>Plan B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	MS9BS	\$ 75.00	\$ 65.00	\$ 50.00	\$ 575.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	MS9BS	80.00	69.00	52.00	575.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	MS9BS	90.00	77.00	57.00	575.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	MS9BS	95.00	80.00	60.00	575.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	MS9BS	100.00	84.00	63.00	575.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	MS9BS	105.00	88.00	65.00	575.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	MS9BS	\$ 75.00	\$ 65.00	\$ 50.00	\$ 575.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	MS9BS	80.00	69.00	52.00	575.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	MS9BS	90.00	77.00	57.00	575.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	MS9BS	95.00	80.00	60.00	575.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	MS9BS	100.00	84.00	63.00	575.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	MS9BS	105.00	88.00	65.00	575.00

Note 1: Meetpoint is over 0 to 20 miles outside Service Area.

Note 2: Meetpoint is over 20 to 50 miles outside Service Area.

Note 3: Meetpoint is over 50 to 75 miles outside Service Area.

Note 4: Meetpoint is over 75 to 100 miles outside Service Area.

Note 5: Meetpoint is over 100 to 125 miles outside Service Area.

Note 6: Meetpoint is over 125 miles outside Service Area.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(B) MSFRS Meetpoint Extended Connections (Cont'd)

(6) Automatic Back-Up NNI

	<u>USOC</u>	<u>Month to Month</u>	<u>Plan A 12 to 24 Months</u>	<u>Plan B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	MS9BT	\$ 75.00	\$ 65.00	\$ 50.00	\$ 575.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	MS9BT	80.00	69.00	52.00	575.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	MS9BT	90.00	77.00	57.00	575.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	MS9BT	95.00	80.00	60.00	575.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	MS9BT	100.00	84.00	63.00	575.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	MS9BT	105.00	88.00	65.00	575.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Meetpoint Extended Connection <sup>1</sup>	MS9BT	\$ 75.00	\$ 65.00	\$ 50.00	\$ 575.00
- MSFRS Meetpoint Extended Connection <sup>2</sup>	MS9BT	80.00	69.00	52.00	575.00
- MSFRS Meetpoint Extended Connection <sup>3</sup>	MS9BT	90.00	77.00	57.00	575.00
- MSFRS Meetpoint Extended Connection <sup>4</sup>	MS9BT	95.00	80.00	60.00	575.00
- MSFRS Meetpoint Extended Connection <sup>5</sup>	MS9BT	100.00	84.00	63.00	575.00
- MSFRS Meetpoint Extended Connection <sup>6</sup>	MS9BT	105.00	88.00	65.00	575.00

Note 1: Meetpoint is over 0 to 20 miles outside Service Area.

Note 2: Meetpoint is over 20 to 50 miles outside Service Area.

Note 3: Meetpoint is over 50 to 75 miles outside Service Area.

Note 4: Meetpoint is over 75 to 100 miles outside Service Area.

Note 5: Meetpoint is over 100 to 125 miles outside Service Area.

Note 6: Meetpoint is over 125 miles outside Service Area.

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(C) Optional Features

	<u>USOC</u>	<u>Month</u> <u>to</u> <u>Month</u>	<u>Nonrecurring</u> <u>Charges</u>
(1) DLCI <sup>1</sup>			
-Initial Standard DLCI <sup>2</sup>	XAFD1	None	None
-Additional Standard DLCI	XAFD2	\$ 1.50	\$ 70.00
-Initial Priority DLCI <sup>2,3</sup>	XAFP1	\$ 5.00	None
-Additional Priority DLCI <sup>3</sup>	XAFP2	\$ 5.00	\$ 70.00
-Standard Pivot DLCI	XAFD3	\$ 1.50	\$ 70.00
-Standard Primary DLCI	XAFD4	\$ 1.50	\$ 70.00
-Standard Secondary DLCI	XAFD5	\$ 1.50	\$ 70.00
-Priority Pivot DLCI <sup>3</sup>	XAFP3	\$ 5.00	\$ 70.00
-Priority Primary DLCI <sup>3</sup>	XAFP4	\$ 5.00	\$ 70.00
-Priority Secondary DLCI <sup>3</sup>	XAFP5	\$ 5.00	\$ 70.00

Note 1: These DLCI charges are not applicable for configurable DLCIs provided as part of a Configurable DLCI Bundle associated with CNM-Customer Configuration Management Capability.

Note 2: One "Initial" DLCI is applicable when DLCIs are ordered at the same time as the installation of the MSFRS Connection. Only one Initial DLCI (either one Initial Standard DLCI or one Initial Priority DLCI) is allowed per MSFRS Connection; all other DLCIs are considered Additional DLCIs.

Note 3: A Priority DLCI must have CIR with a value greater than 0.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(C) Optional Features (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>Nonrecurring Charges</u>
(2) Standard Committed Information Rate (CIR), Per DLCI to be mapped to another DLCI <sup>(1)</sup>			
-0 Bps	XAFCA	None	None
-Over 0 thru 32 Kbps	XAFCB	\$ 6.30	None
-Over 32 thru 56 Kbps	XAFCC	10.80	None
-Over 56 thru 64 Kbps	XAFCD	11.70	None
-Over 64 thru 128 Kbps	XAFCG	16.20	None
-Over 128 thru 256 Kbps	XAFCH	21.60	None

<sup>(1)</sup> These CIR Charges are not applicable for configurable DLCIs provided within a Configurable DLCI Bundle (which include CIR and ISAL CIR of up to 64 Kbps per configurable DLCI) associated with Customer Configuration Management Capability.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(C) Optional Features (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>Nonrecurring Charges</u>
(3) Frame Relay to ATM Network Interworking Committed Information Rate (CIR), Per DLCI to be mapped to an ATM PVC Segment			
-0 Bps	MS95A	\$ .15	None
-Over 0 thru 32 Kbps	MS95B	6.90	None
-Over 32 thru 56 Kbps	MS95C	11.90	None
-Over 56 thru 64 Kbps	MS95D	12.90	None
-Over 64 thru 128 Kbps	MS95G	17.80	None
-Over 128 thru 256 Kbps	MS95H	23.80	None

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges(Cont'd)

(C) Optional Features (Cont'd)

	<u>USOC</u>	<u>Month to Month</u>	<u>Nonrecurring Charges</u>
(4) Inter Service Area Link (ISAL) Committed Information Rate (CIR), (Per ISAL PVC, per end of link) <sup>(1)</sup>			
-0 thru 32 Kbps	MS9CB	\$ 6.30	\$ 35.00
-Over 32 thru 56 Kbps	MS9CC	10.80	35.00
-Over 56 thru 64 Kbps	MS9CD	11.70	35.00
-Over 64 thru 128 Kbps	MS9CG	16.20	35.00
-Over 128 thru 256 Kbps	MS9CH	21.60	35.00

<sup>(1)</sup> These ISAL CIR Charges are not applicable for configurable DLCIs provided within a Configurable DLCI Bundle (which include CIR and ISAL CIR of up to 64 Kbps per configurable DLCI) associated with CNM-Customer Configuration Management Capability.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges(Cont'd)

(C) Optional Features (Cont'd)

(5) Intelligent PVC

Intelligent PVC Charge - One Intelligent PVC Charge applies per customer-specified arrangement of 3 DLCIs and is in addition to the charges for DLCIs.

a) Per Intelligent PVC

	<u>USOC</u>	Month To <u>Month</u>	<u>Nonrecurring Charges</u>
Each	FRV1P	\$ 2.00	None



ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE  
 21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(C) Optional Features (Cont'd)

(6) Special Provisioning UNI<sup>(1)</sup>

	<u>USOC</u>	<u>Month to Month</u>	<u>Plan A 12 to 24 Months</u>	<u>Plan B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Connection	MS9AA	\$ 23.00	\$ 20.00	\$ 18.00	\$ 128.00
- MSFRS Extended Connection <sup>(2)</sup>	MS9AB	30.00	27.00	24.00	128.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Connection	MS9AA	23.00	20.00	18.00	128.00
- MSFRS Extended Connection <sup>(2)</sup>	MS9AB	30.00	27.00	24.00	128.00
112 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AA	38.00	34.00	31.00	139.00
- MSFRS Extended Connection <sup>(2)</sup>	MS9AB	95.00	86.00	76.00	139.00
128 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AC	38.00	34.00	31.00	139.00
- MSFRS Extended Connection <sup>(2)</sup>	MS9DC	95.00	86.00	76.00	139.00
192 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AD	48.00	43.00	38.00	139.00
- MSFRS Extended Connection <sup>(2)</sup>	MS9DD	105.00	95.00	84.00	139.00

<sup>(1)</sup> Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

<sup>(2)</sup> Customer Premises SWC is outside Service Area.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE  
 21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(C) Optional Features (Cont'd)

(7) Special Provisioning NNI<sup>(1)</sup>

	<u>USOC</u>	<u>Month to Month</u>	<u>Plan A 12 to 24 Months</u>	<u>Plan B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Connection	MS9AA	\$ 23.00	\$ 20.00	\$ 18.00	\$ 128.00
- MSFRS Extended Connection <sup>(2)</sup>	MS9AB	30.00	27.00	24.00	128.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Connection	MS9AA	23.00	20.00	18.00	128.00
- MSFRS Extended Connection <sup>(2)</sup>	MS9AB	30.00	27.00	24.00	128.00
112 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AA	38.00	34.00	31.00	139.00
- MSFRS Extended Connection <sup>(2)</sup>	MS9AB	95.00	86.00	76.00	139.00
128 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AC	38.00	34.00	31.00	139.00
- MSFRS Extended Connection <sup>(2)</sup>	MS9DC	95.00	86.00	76.00	139.00
192 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AD	48.00	43.00	38.00	139.00
- MSFRS Extended Connection <sup>(2)</sup>	MS9DD	105.00	95.00	84.00	139.00

<sup>(1)</sup> Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

<sup>(2)</sup> Customer Premises SWC is outside Service Area.

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ISSUED: JUNE 16, 2011

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ACCESS SERVICE  
 21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(C) Optional Features (Cont'd)

(8) Special Provisioning UNI<sup>(1)</sup>

	<u>USOC</u>	<u>Month to Month</u>	<u>Plan A 12 to 24 Months</u>	<u>Plan B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Meetpoint Extended Connection <sup>(2)</sup>	MS9JA	\$ 27.00	\$ 24.00	\$ 22.00	\$ 86.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Meetpoint Extended Connection <sup>(2)</sup>	MS9JA	27.00	24.00	22.00	86.00
112 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection <sup>(2)</sup>	MS9JA	91.00	82.00	73.00	116.00
128 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection <sup>(2)</sup>	MS9JC	91.00	82.00	73.00	116.00
192 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection <sup>(2)</sup>	MS9JD	101.00	90.00	80.00	116.00

<sup>(1)</sup> Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

<sup>(2)</sup> Meetpoint is outside Service Area.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(C) Optional Features (Cont'd)

(9) Special Provisioning NNI<sup>(1)</sup>

	<u>USOC</u>	<u>Month to Month</u>	<u>Plan A 12 to 24 Months</u>	<u>Plan B 25 to 48 Months</u>	<u>Nonrecurring Charges</u>
56 Kbps (BCOS : MS9X5)					
- MSFRS Meetpoint Extended Connection <sup>(2)</sup>	MS9JA	\$ 27.00	\$ 24.00	\$ 22.00	\$ 86.00
64 Kbps (BCOS : MS9X6)					
- MSFRS Meetpoint Extended Connection <sup>(2)</sup>	MS9JA	27.00	24.00	22.00	86.00
112 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection <sup>(2)</sup>	MS9JA	91.00	82.00	73.00	116.00
128 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection <sup>(2)</sup>	MS9JC	91.00	82.00	73.00	116.00
192 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection <sup>(2)</sup>	MS9JD	101.00	90.00	80.00	116.00

<sup>(1)</sup> Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

<sup>(2)</sup> Meetpoint is outside Service Area.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS)

21.3.10 Rates and Charges (Cont'd)

(C) Optional Features (Cont'd)

(10) CNM-Customer Configuration Management Capability - Rate elements following for CNM-Customer Configuration Management Capability are applicable for DLCIs, CIR and ISAL CIR associated with configurable PVCs provisioned by the customer; these rates and charges apply in lieu of those preceding for DLCI, CIR and ISAL CIR rate elements applicable for standard PVCs provisioned by the Company.

- Configurable DLCI Bundles - Each bundle provides the specified quantity of configurable DLCIs, with up to 64 Kbps of CIR and ISAL CIR per DLCI. Multiple bundles may be selected to secure the total quantity, or block, of configurable DLCIs for a MSFRS Connection.

	<u>USOC</u>	<u>Monthly Rate</u>
- 2 DLCI Bundle	XAFKA	\$ 16.50
- 5 DLCI Bundle	XAFKB	41.00
- 15 DLCI Bundle	XAFKC	121.00
- 25 DLCI Bundle	XAFKD	197.00
- 35 DLCI Bundle	XAFKE	270.00
- 50 DLCI Bundle	XAFKF	373.00
- 100 DLCI Bundle	XAFKG	664.00
- 200 DLCI Bundle	XAFKH	1,162.00
- 300 DLCI Bundle	XAFKJ	1,494.00
- 400 DLCI Bundle	XAFKK	1,660.00

- Configurable DLCI Block Establishment/Change Charge - This nonrecurring charge is applicable to initially establish the block of configurable DLCIs for a MSFRS Connection. This charge is also applicable per subsequent request to change the size of the block of configurable DLCIs. Only one such nonrecurring charge applies per request regardless of how many Configurable DLCI Bundles are requested to initially establish the block or are requested subsequently to be added or deleted.

	<u>USOC</u>	<u>Nonrecurring Charge</u>
- Per Request	XAFKY	\$45.00

- DLCI Conversion Charge - This nonrecurring charge is applicable per standard DLCI requested to be converted to a configurable DLCI and per configurable DLCI requested to be converted to a standard DLCI.

	<u>USOC</u>	<u>Nonrecurring Charge</u>
- Per DLCI	XAFKZ	\$16.00

(This page filed under Transmittal No. 1 )

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.3 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.3.10 Rates and Charges(Cont'd)

(D) Feature Change Charge

	<u>USOC</u>	<u>Month to Month</u>	<u>Nonrecurring Charges</u>
-Per Occurrence, Per Feature	XAFFC	None	\$ 50.00

(E) Transfer of Service

-Per Billing Account Number	XAFTF	None	65.00
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(F) Fast Speed Change Charge

-112 Kbps thru 1152 Kbps <sup>(1)</sup>	MS9F1	None	500.00
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(G) Primary MSFRS Connection Enablement/Change Charge

MS5EC	None	\$ 125.00
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<sup>(1)</sup> This nonrecurring charge applies per connection changed to either 1) another speed as defined above or 2) a 1.536 Mbps connection. Accordingly, the Fast Speed Change Charge applies in lieu of the Nonrecurring Charge specified in the MSFRS Connections and MSFRS Meetpoint Extended Connections sections of this tariff.

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ACCESS SERVICE

21 - Fast Packet Access Services

21.4 BellSouth Customer Network Management - Network Visibility Service  
(CNM-NVS)

21.4.1 General Description

BellSouth CNM-NVS is available on an optional basis as a feature of the following Fast Packet Access Services:

- Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service) described in 21.1
- BellSouth Managed Shared Frame Relay Service (MSFRS) described in 21.4

BellSouth CNM-NVS is a customer network management tool that provides customers a view into their BellSouth Fast Packet network for monitoring and trouble shooting purposes. The following CNM-NVS options are available for XAFRS and MSFRS: Fault Management, On Demand Statistics and Performance Reports.

BellSouth CNM-NVS supports hierarchical names. For example, a customer defines an overall network name (usually the customer name) and then may choose to establish multiple sub-network names. A maximum of five hierarchical tiers are available (the overall network plus four sub-network tiers).

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ACCESS SERVICE  
21 - Fast Packet Access Services

21.4 BellSouth Customer Network Management - Network Visibility Service  
CNM-NVS (Cont'd)

21.4.1 General Description (Cont'd)

Access to the BellSouth CNM-NVS graphical interface is available via a Web Interface; alternatively, a dial or dedicated method described in section 7.4.12, BellSouth SPA CNM - FlexServ Service may also be used to access the CNM-NVS graphical interface. Additionally, CNM-NVS may be accessed via a Remote Message Interface for the collection of raw data. For security reasons, customers are required to identify themselves via a username and password. The username and password are assigned at the time the account is established. Following are descriptions and requirements for each type of Management Access Interface:

1. Web Interface - This interface allows customers to access the BellSouth CNM-NVS graphical interface via the Web using a standard web browser. This type of access requires a Security Card.

Security Card - This card provides the customer a unique password identification code which will electronically change periodically.

If the customer has purchased a Security Card in conjunction with another feature or service offered by BellSouth, that Security Card may also be used in conjunction with CNM-NVS. It is the customer's responsibility to notify BellSouth of an existing Security Card so BellSouth can ensure that the card is validated for multiple features and/or services.

2. Dial Interface access to the BellSouth CNM-NVS graphical interface - See section 7.4.12
3. Dedicated Interface access to the BellSouth CNM-NVS graphical interface - See section 7.4.12
4. Remote Message Interface - This interface will allow SSH-IP connectivity to BellSouth CNM-NVS from other compatible Network Management systems for the collection of raw data. The customer must have SSH access to the CNM-NVS platform. Connectivity must be via a Frame Relay PVC to the Company network. Technical details and limitations on the Remote Message Interface can be found in BellSouth Technical Reference TR-73587.

The customer is responsible for providing and maintaining all terminal equipment necessary to access BellSouth CNM-NVS.

A customer may subscribe to BellSouth CNM-NVS on a monthly basis. An account is established which will include the XAFRS and the MSFRS Connections designated by the customer to have BellSouth CNM-NVS capability. Customers may choose to subscribe to BellSouth CNM-NVS for all Network Interfaces/ Connections in their BellSouth Fast Packet network or choose BellSouth CNM-NVS for only a portion.

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ACCESS SERVICE

21 - Fast Packet Access Services

21.4 BellSouth Customer Network Management - Network Visibility Service  
(CNM-NVS) (Cont'd)

21.4.1 General Description (Cont'd)

CNM-NVS is available in two packages:

- 1) Fault Management and On Demand Statistics<sup>1</sup> and
- 2) Fault Management, On Demand Statistics and Performance Reports

All network interfaces/connections within a customer's account must be under the same package. If a customer desires to have both packages, a separate account must be established for each package type. Following is a description of the options available for CNM-NVS:

(A) Fault Management

CNM-NVS provides the ability to monitor fault and alarm information as network events occur. If a BellSouth network event results in automatic rerouting of customer owned PVCs on a Network Interface/Connection within the BellSouth Fast Packet network, such that those PVCs are not service impacted, then BellSouth will not send PVC events to the customer. The following Fault Management features will be available on a customer and sub-network basis:

- BellSouth will provide to the customer, in near real time, all events, faults, and network alarms on any Network Interface/Connection or PVC.
- The customer can determine the severity level of alarms displayed and suppress the alarms they do not wish to view.

(B) On Demand Statistics

CNM-NVS provides customers statistics for each Network Interface/Connection and PVC on a customer and sub-network basis.

(C) Performance Reports

CNM-NVS provides customers network performance reports on their BellSouth Fast Packet network. Customers have the capability of requesting performance reports for interfaces. (Interfaces are defined as Network Interfaces/Connections and PVCs). CNM-NVS provides a measure of the level of network performance of a customer's network and individual interfaces that is called the Network Performance Level. The Network Performance Level components include Incoming Utilization, Outgoing Utilization, Discarded Frames/Cells and Congestion. The Network Performance Level is used in several reports to provide a weighted performance measure taking into account all the performance parameters mentioned above.

Note 1: Effective November 15, 2006, this option will not be available for new customer orders.

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.4 BellSouth Customer Network Management - Network Visibility Service  
(CNM-NVS) (Cont'd)

21.4.1 General Description (Cont'd)

(C) Performance Reports (Cont'd)

Historical Performance Reports will baseline historic network performance, trend future performance and highlight network performance problems. The following selection of reports is available:

- (1) Network Summary Report – Provides an overview of the customer's network performance in terms of Total Frames/Cells Transmitted and Received, Percent Total Utilization, Total Frames/Cells Discarded, and Percent Frames/Cells Discarded of Total Frames/Cells Transmitted and Received.
- (2) Forecast Report – Provides the Network Interfaces/Connections or PVCs that are projected to exceed customer specific thresholds of Utilization and Congestion.
- (3) Network Interface Performance Report – Provides the Network Performance Level on a customer selectable interface (Network Interface/Connection or PVC).
- (4) Capacity Planning Report – Provides the top ten over-utilized and top ten under-utilized interfaces (Network Interface/Connection or PVC).
- (5) Threshold Exceptions Report – Provides a daily report on the top ten interfaces that exceed a customer selectable threshold parameter. These parameters are Input Utilization, Output Utilization, Incoming Congestion, Outgoing Congestion, In Discards, and Out Discards.
- (6) Top Ten Report – Provides a daily report of the top ten interfaces with the highest volumes and the worst Network Performance Level. It also specifies the top ten interfaces with the greatest change in both volume and Network Performance Level.

(D) Customer Training

Customers who desire training for CNM-NVS can request this training from their BellSouth representative and will be charged the nonrecurring charge for Additional Customer Training set forth in Section 7 of this Tariff.

(This page filed under Transmittal No. 1 )

ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.4 BellSouth Customer Network Management - Network Visibility Service  
(CNM-NVS) (Cont'd)

21.4.2 Maintenance

In order to maintain the quality of CNM-NVS, the Company reserves the right to perform preventive maintenance and software updates. This could result in CNM-NVS being unavailable during the time period between Midnight and 3:00 A.M. Eastern Time on Sundays. In addition, preventive maintenance may be performed on the XAFRS and MSFRS circuits being monitored by CNM-NVS during the time period between 2:00 A.M. and 4:00 A.M. Eastern Time on the specific days as set forth by state in the following chart. BellSouth CNM-NVS will be unable to view these circuits while preventive maintenance is being performed. The Telephone Company only expects to utilize this maintenance window on the average of once a quarter. However, the Telephone Company reserves the right to perform maintenance at any time at its discretion that it believes such maintenance is necessary. The Telephone Company will make a reasonable effort to provide notice to those customers likely to be affected by such maintenance work.

<u>State</u>	<u>Scheduled Maintenance Days</u>
Alabama	Sunday and Monday
Florida	Sunday and Wednesday
Georgia	Sunday and Friday
Kentucky	Sunday and Monday
Louisiana	Sunday and Tuesday
Mississippi	Sunday and Tuesday
North Carolina	Sunday and Saturday
South Carolina	Sunday and Saturday
Tennessee	Sunday and Thursday

21.4.3 Minimum Period of Service

The minimum period of service is one month.

21.4.4 Rate Regulations

- A. Rates and charges are specified in 21.6.6 following for CNM-NVS. Unless specified otherwise, BellSouth CNM-NVS is available for use with the Fast Packet Savings Plan subject to the regulations provided in 2.4.8.(F) preceding.
- B. The rates and charges set forth for CNM-NVS provide for the furnishing of service where suitable facilities are available.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.4 BellSouth Customer Network Management - Network Visibility Service  
(CNM-NVS) (Cont'd)

21.4.5 Rate Categories

The following rate categories apply to BellSouth CNM-NVS:

- (A) Service Establishment Charge  
The Service Establishment Charge is a nonrecurring charge which applies per customer account. This charge covers the initial establishment and set-up of the customer account in the CNM-NVS database. A username(s) and password(s) will be assigned for use by the customer in accessing their account. At the time the account is established, a customer may also choose to establish sub accounts.
- (B) Fault Management and On Demand Statistics<sup>1</sup>  
A monthly charge applies for each Network Interface/Connection in the customer's network with CNM-NVS capability. A nonrecurring charge is applicable per Network Interface/Connection at the time of installation.
- (C) Fault Management, On Demand Statistics and Performance Reports  
A monthly charge applies for each Network Interface/Connection in the customer's network with CNM-NVS capability. A nonrecurring charge is applicable per Network Interface/Connection at the time of installation.
- (D) Subsequent Modification Charge  
The Subsequent Modification Charge is a nonrecurring charge which applies per Network Interface/Connection when a CNM-NVS customer requests that existing CNM-NVS Network Interfaces/Connections or PVCs be modified. Examples of this charge include change of customer name and movement between packages. This charge is not applicable:
  - when a new PVC is added to an existing CNM-NVS Network Interface/Connection and CNM-NVS is requested for the new PVC, or
  - for a request to change a password.

Note 1: Effective November 15, 2006, this option will not be available for new customer orders.

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.4 BellSouth Customer Network Management - Network Visibility Service  
(CNM-NVS)

21.4.5 Rate Categories (Cont'd)

(E) Management Access Interface

All customers must have a Management Access Interface. This connection allows the customer to monitor their network. A monthly charge applies for each Web Interface and each Remote Message Interface; a nonrecurring charge is applicable per Web Interface and per Remote Message Interface at the time of installation. A Security Card described below is required for web access. See section 7.5.18 preceding for the rates and charges for a Management Access Interface using a dial or dedicated access option.

Effective May 16, 2008, a Security Card will not be required for web access to the Management Access Interface and will not be available for new customer orders. Customers with an existing Security Card may continue using the card, but new orders will not be accepted. Security for Web Access users will be provided using a customer user identification code and password.

- Security Card – The Security Card charge is a nonrecurring charge applicable for the issuance of the initial card or for the issuance of additional cards for additional users or to replace a lost, damaged or expired card.

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ISSUED: JUNE 16, 2011

EFFECTIVE: JULY 1, 2011

ACCESS SERVICE  
21 - Fast Packet Access Services

21.4 BellSouth Customer Network Management - Network Visibility Service  
(CNM-NVS) (Cont'd)

21.4.6 Rates and Charges

(A) Service Establishment Charge

	Nonrecurring Charge	USOC
(1) Per Customer	\$250.00	NVSSE

(B) Fault Management and On Demand Statistics<sup>(1)</sup>  
Per Network Interface or Connection

(1) XAFRS or MSFRS

	Nonrecurring Charge	Monthly Rate	USOC
(a) Per DSO	\$75.00	\$ 0.00	NVSFO

(C) Fault Management, On Demand Statistics and Performance Reports  
Per Network Interface or Connection

(1) XAFRS or MSFRS

(a) Per DSO	\$75.00	\$ 0.00	NVSRO
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<sup>(1)</sup> Effective November 15, 2006, this option will not be available for new customer orders.

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EFFECTIVE: JULY 1, 2011

ACCESS SERVICE

21 - Fast Packet Access Services

21.4 BellSouth Customer Network Management - Network Visibility Service  
(CNM-NVS) (Cont'd)

21.4.6 Rates and Charges (Cont'd)

(D) Subsequent Modification Charge

(1) Per Network Interface or Customer Connection

(a) Each	Nonrecurring Charge	USOC
	\$70.00	NVSSM

(E) Management Access Interface<sup>1</sup>

(1) Web Interface

(a) Each	Nonrecurring Charge	Monthly Rate	USOC
	\$125.00	\$25.00	NVSW1

(2) Remote Message Interface

(a) Each	\$125.00	\$25.00	NVSRM
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(F) Security Card

(1) Per Card

(a) Each	Nonrecurring Charge	USOC
	\$100.00	NVSSC

Note 1: See section 7.5.18(A) for a dial or dedicated access option.

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