

ACCESS SERVICE

21 - Fast Packet Access Services

The Telephone Company will provide four 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 21.1, BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS) as described in Section 21.3, BellSouth Managed Shared Frame Relay Service (MSFRS) as described in Section 21.4, and BellSouth Managed Shared Asynchronous Transfer Mode Service (MSATMS) as described in Section 21.5. Switch locations supporting Fast Packet Access Services are as specified in National Exchange Carrier Association, Inc 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 21.1, following, BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS) as described in Section 21.3, BellSouth Managed Shared Frame Relay Service (MSFRS) as described in Section 21.4, and BellSouth Managed Shared Asynchronous Transfer Mode Service (MSATMS) as described in Section 21.5, 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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21.0.1 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 Sections 21.0.1(A) through (E). 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 Section 21.0.1(E) from the date of installation. The following services are eligible for application testing: Exchange Access Frame Relay Service, Managed Shared Frame Relay Service, Exchange Access Asynchronous Transfer Mode Service, and Managed Shared Asynchronous Transfer Service. (T) (T)

- 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 Guidebook 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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21.0.1 Application Testing

- 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.¹
 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.¹
- 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 21.0.1 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 Guidebook nonrecurring charges and rates.

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

21.1.1 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 Section 21.1.9.(B)(6).

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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 and PVCs established via Frame Relay to ATM Network Interworking with an ATM Service network interface.

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 conditions 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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21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)21.1.1 General Description

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 256 Kbps, 320 Kbps, 384 Kbps, 448 Kbps, 512 Kbps, 576 Kbps, 640 Kbps, 704 Kbps, 768 Kbps, 1024 Kbps, 1152 Kbps, 1.536 Mbps, 3 Mbps, 6 Mbps, 9 Mbps, 12 Mbps, 15 Mbps, 18 Mbps, 21 Mbps, 24 Mbps, 27 Mbps, 30 Mbps, 33 Mbps and 44.210 Mbps.

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 256 Kbps, 320 Kbps, 384 Kbps, 448 Kbps, 512 Kbps, 576 Kbps, 640 Kbps, 704 Kbps, 768 Kbps, 1024 Kbps, 1152 Kbps, 1.536 Mbps, 3 Mbps, 6 Mbps, 9 Mbps, 12 Mbps, 15 Mbps, 18 Mbps, 21 Mbps, 24 Mbps, 27 Mbps, 30 Mbps, 33 Mbps and 44.210 Mbps.

A customer requiring more than a DS1 but less than a DS3, can economically utilize MultiLink Frame Relay (MLFR) to achieve Frame Relay speeds in DS1 multiples thereby avoid subscribing to a DS3 user network interface. MLFR is provisioned using multiple DS1 facilities bonded together by the central office equipment used in providing MLFR and the appropriate compatible equipment provided by the customer at their premises to terminate these DS1 facilities. Technical details and limitations of MLFR can be found in BellSouth Technical Reference 73587. MultiLink UNIs and NNIs are available at transmission speeds of 3.072 Mbps, 6.144 Mbps, 9.216 Mbps and 12.280 Mbps. Following are the equivalent number of DS1 facilities provisioned in association with each speed of MultiLink network interfaces.

MultiLink Network Interface	Quantity of DS1 Facilities Required
3.072 Mbps	2
6.144 Mbps	4
9.216 Mbps	6
12.280 Mbps	8

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

21.1.1 General Description

Alternatively, Frame Relay speeds between DS1 and DS3 can be achieved through the provisioning of a DS3 that is bandwidth-constrained at the fast packet switch. This Subrate T3 Network Interface is available in 3 Mbps, 6 Mbps, 9 Mbps, 12 Mbps, 15 Mbps, 18 Mbps, 21 Mbps, 24 Mbps, 27 Mbps, 30 Mbps and 33 Mbps speeds.

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 1.536 Mbps and 44.210 Mbps. Automatic Back-Up is available at transmission speeds of 1.536 Mbps and 44.210 Mbps. Connection to a Back-Up Network Interface is accomplished through dedicated access; for interstate dedicated access, rates, charges and conditions for Special Access(a.k.a. BellSouth SPA) Services are specified in Section 7. 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. (D)

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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21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)21.1.1 General Description

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

21.1.2 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 Section 21.1.8. (T)

Nonrecurring charges for the Network Interface elements are set forth in Section 21.1.10(A). (T)

(2) Installation of Optional Features

Nonrecurring charges apply to the installation of optional features as set forth in Section 21.1.10(B). (T)

(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 Section 5.6(E). 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 Section 21.1.2(4) and Section 21.1.10(D). (T)
(T)

- (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.

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

21.1.2 Service Description

(3) Service Rearrangements

- (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 Section 21.1.10(D) will apply. Charges are applied on a Billing Account Number (BAN).

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

21.1.2 Service Description

(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 Sections 21.1.2(6)(c) and (d). 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 Guidebook. (T)
- (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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21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)

21.1.2 Service Description

(6) Service Level Agreements

(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 Section 21.1.2(5) and (T)
2) customer requests for rearrangements which resulted in that service being unavailable as set forth in Sections 21.1.2(3)(a) and (T)
(b). 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 Section 21.1.2(3)(a) 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: (T)

(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 Section 21.1.2(5)) and in association with situations over which the Company does not have control (as set forth in Section 21.1.2(6)(c)) are counted as "available" time. (T)

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21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)21.1.2 Service Description

(6) Service Level Agreements

(e) Service Level Commitments

(1) Network Availability Commitment: 99.9%

- 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 21.1.2(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.

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

21.1.2 Service Description

(6) Service Level Agreements

(e) Service Level Commitments

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

- 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 21.1.2(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 21.1.2(6)(f)(3) will then be issued on this Frame Relay PVC.

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

21.1.2 Service Description

(6) Service Level Agreements

(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 Section 21.1.2(6).

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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 Credit¹:

- 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 Credit¹:

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

21.1.2 Service Description

(6) Service Level Agreements

(f) Credits for Missed SLA Commitments

(3) Frame Delivery Rate SLA Credit¹:

- 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:	
>256-384 Kbps CIR	25.20
>384-512 Kbps CIR	28.80
>512-768 Kbps CIR	32.40
>768 Kbps-1.536 Mbps CIR	41.25
>1.536-4 Mbps CIR	130.00
>4-10 Mbps CIR	325.00
>10-16 Mbps CIR	525.00
>16-34 Mbps CIR	1100.00
>34-44.210 Mbps CIR	1500.00

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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21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)21.1.3 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 Guidebook 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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21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)

21.1.4 Interface Specifications

The following specifications are available with this service:

- Digital packet (UNI)
- Digital packet (NNI)

21.1.5 Acceptance Testing

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

21.1.6 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.

21.1.8 Rate Conditions

Rates and charges are specified in Section 21.1.10 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 Section 2.4.8(C). (T)
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(D)

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 conditions provided in Section 2.4.8(F). (T)

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

21.1.8 Rate Conditions

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

21.1.9 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 Section 21.1.10 for each transmission speed of standard or primary Network interface (both UNI and NNI) and Back-Up Network Interface (both UNI and NNI). (T)

A nonrecurring Primary Network Interface Enablement/Change Charge provided in Section 21.1.10 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. (T)

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.

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21.1.9 Rate Categories

(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 Section 21.1.10(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. (T)

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 Section 21.1.9(B)(6). Configurable DLCIs are considered as additional standard DLCIs. (T)

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21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)21.1.9 Rate Categories

(B) Optional Features

(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 DLCI¹ 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 section. 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 Segment²:</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 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 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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21.1.9 Rate Categories

(B) Optional Features

(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 Section 21.1.9(B)(1)).

(T)

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 Guidebook 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.

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

21.1.9 Rate Categories

(B) Optional Features

(3) MultiCast PVC

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 Frame Relay Network Interface (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 Frame Relay Network Interface).

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 Network Interface.

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 Section 21.1.10(B)) 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. (T)

The host and remote sites associated with a MultiCast PVC are required to be Frame Relay Service Network Interfaces as it is not currently technically feasible to utilize Frame Relay to ATM Interworking within a MultiCast PVC arrangement. The Frame Relay Network Interface 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.

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21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)21.1.9 Rate Categories

(B) Optional Features

(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.

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

21.1.9 Rate Categories

(B) Optional Features

(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 1.536 Mbps, 3 Mbps, 6 Mbps, 9 Mbps, 12 Mbps, 15 Mbps, 18 Mbps, 21 Mbps, 24 Mbps, 27 Mbps, 30 Mbps, 33 Mbps and 44.210 Mbps 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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21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)21.1.9 Rate Categories

(B) Optional Features

- (6) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability⁽¹⁾

(C)

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.

⁽¹⁾ 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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(B) Optional Features

(6) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability⁽¹⁾ (Cont'd)

(C)

- (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. 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.

⁽¹⁾ See footnote (1) on Sheet 27.

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21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)21.1.9 Rate Categories

(B) Optional Features

(6) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability⁽¹⁾ (Cont'd)

(C)

- (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 21.1.9.(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.

⁽¹⁾ See footnote (1) on Sheet 27.

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21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)21.1.9 Rate Categories

(B) Optional Features

(6) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability⁽¹⁾ (Cont'd)

(C)

- (l) 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.

⁽¹⁾ See footnote (1) on Sheet 27.

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

21.1.9 Rate Categories

(B) Optional Features

(7) Regional InterLATA PVC Extension

The Regional InterLATA PVC Extension is an Optional Feature that enables customers to extend a PVC between XAFRS network interfaces in two different LATAs.

The customer must request a Regional InterLATA PVC Extension between two LATAs within BellSouth's operating territory. Each Regional InterLATA PVC Extension has an associated CIR that must match the CIR of the DLCIs associated with each end of the PVC. Each end of the PVC is at a customer premises.

The appropriate rates and charges for the Regional InterLATA PVC Extension are set forth in Section 21.1.10(B) and are applied per end of extension. Both a nonrecurring charge and a monthly rate apply for each end of the extension. The Regional InterLATA PVC Extension charges are in addition to the associated PVC DLCI and CIR charges. (T)

A customer request to add a Regional InterLATA PVC Extension to an existing PVC arrangement shall be considered a disconnect of the existing PVC rate elements and a new connect of the new service elements (e.g., DLCI, CIR, Regional InterLATA Extension, etc.); nonrecurring charges shall apply.

Regional InterLATA PVC Extensions are technically not compatible with certain types of XAFRS Network Interfaces or certain types of XAFRS PVCs; these technical limitations are set forth in TR-73587.

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

21.1.9 Rate Categories

(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 Section 21.1.10(D) will apply. (T)
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.

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

21.1.10 Rates and Charges

(A) Network Interface

		Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
	USOC				
(1) Standard or Primary Network Interfaces					
-Per UNI					
-256 Kbps	XAFUD	270.00	216.00	126.00	467.00
-320 Kbps	XAFUE	304.50	243.60	142.10	467.00
-384 Kbps	XAFUF	304.50	243.60	142.10	500.00
-448 Kbps	XAFUG	309.00	247.20	144.20	500.00
-512 Kbps	XAFUH	309.00	247.20	144.20	500.00
-576 Kbps	XAFUJ	312.00	249.60	145.60	500.00
-640 Kbps	XAFUK	312.00	249.60	145.60	500.00
-704 Kbps	XAFUL	316.50	253.20	147.70	500.00
-768 Kbps	XAFUM	316.50	253.20	147.70	500.00
-1024 Kbps	XAFUN	319.50	255.60	149.10	500.00
-1152 Kbps	XAFUO	319.50	255.60	149.10	500.00
-1.536 Mbps	XAFU1	441.00	351.00	210.00	410.00
-3 Mbps1	XAFUP	1822.50	1458.00	851.00	1046.00
-6 Mbps1	XAFUQ	1878.00	1503.00	876.00	1046.00
-9 Mbps1	XAFUR	2025.00	1620.00	945.00	1046.00
-12 Mbps1	XAFUS	2172.00	1737.00	1014.00	1046.00
-15 Mbps1	XAFUT	2319.00	1855.50	1082.00	1046.00
-18 Mbps1	XAFUU	2466.00	1972.50	1151.00	1046.00
-21 Mbps1	XAFUV	2613.00	2091.00	1219.00	1046.00
-24 Mbps1	XAFUW	2760.00	2208.00	1288.00	1046.00
-27 Mbps1	XAFUX	2907.00	2325.00	1357.00	1046.00
-30 Mbps1	XAFUY	3054.00	2443.50	1425.00	1046.00
-33 Mbps1	XAFUZ	3201.00	2560.50	1494.00	1046.00
-44.210 Mbps	XAFU4	3639.00	2880.00	1715.00	1050.00

Note 1: A Subrate T-3 Network Interface(from 3 to 33 Mbps) is provisioned utilizing 44.210 Mbps of transport bandwidth; no other service(s) may utilize the remaining bandwidth.

(N)

(N)

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

21.1.10 Rates and Charges

(A) Network Interface

		Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
	USOC				
(1) Standard or Primary Network Interfaces (Cont'd)					
- Per UNI (Cont'd)					
- MultiLink (BCOS: XAFXT)					
-	3.072 Mbps ¹	XAFUP	\$ 816.00 (I)	\$ 652.50 (I)	\$ 354.00 \$ 750.00
-	6.144 Mbps ¹	XAFUQ	\$1338.00 (I)	\$1069.50 (I)	\$ 580.00 \$ 750.00
-	9.216 Mbps ¹	XAFUR	\$2080.50 (I)	\$1663.50 (I)	\$ 901.00 \$ 750.00
-	12.280 Mbps ¹	XAFUS	\$2749.50 (I)	\$2199.00 (I)	\$1191.00 \$ 750.00

Note 1: The MultiLink Network Interface is provisioned using the same speed Network Interface.

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21 - Fast Packet Access Services

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

21.1.10 Rates and Charges

(A) Network Interface

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
(1) Standard or Primary Network Interfaces					
- Per NNI					
- 256 Kbps	XAFND	250.50 (I)	200.40 (I)	116.90	467.00
- 320 Kbps	XAFNE	304.50 (I)	243.60 (I)	142.10	467.00
- 384 Kbps	XAFNF	304.50 (I)	243.60 (I)	142.10	500.00
- 448 Kbps	XAFNG	309.00 (I)	247.20 (I)	144.20	500.00
- 512 Kbps	XAFNH	309.00 (I)	247.20 (I)	144.20	500.00
- 576 Kbps	XAFNJ	312.00 (I)	249.60 (I)	145.60	500.00
- 640 Kbps	XAFNK	312.00 (I)	249.60 (I)	145.60	500.00
- 704 Kbps	XAFNL	316.50 (I)	253.20 (I)	147.70	500.00
- 768 Kbps	XAFNM	316.50 (I)	253.20 (I)	147.70	500.00
- 1024 Kbps	XAFNN	319.50 (I)	255.60 (I)	149.10	500.00
- 1152 Kbps	XAFNO	319.50 (I)	255.60 (I)	149.10	500.00
- 1.536 Mbps	XAFN1	441.00 (I)	351.00 (I)	210.00	410.00
- 3 Mbps ¹	XAFNP	1822.50 (I)	1458.00 (I)	851.00	1046.00
- 6 Mbps ¹	XAFNQ	1878.00 (I)	1503.00 (I)	876.00	1046.00
- 9 Mbps ¹	XAFNR	2025.00 (I)	1620.00 (I)	945.00	1046.00
- 12 Mbps ¹	XAFNS	2172.00 (I)	1737.00 (I)	1014.00	1046.00
- 15 Mbps ¹	XAFNT	2319.00 (I)	1855.50 (I)	1082.00	1046.00
- 18 Mbps ¹	XAFNU	2466.00 (I)	1972.50 (I)	1151.00	1046.00
- 21 Mbps ¹	XAFNV	2613.00 (I)	2091.00 (I)	1219.00	1046.00
- 24 Mbps ¹	XAFNW	2760.00 (I)	2208.00 (I)	1288.00	1046.00
- 27 Mbps ¹	XAFNX	2907.00 (I)	2325.00 (I)	1357.00	1046.00
- 30 Mbps ¹	XAFNY	3054.00 (I)	2443.50 (I)	1425.00	1046.00
- 33 Mbps ¹	XAFNZ	3201.00 (I)	2560.50 (I)	1494.00	1046.00
- 44.210 Mbps	XAFN4	3639.00 (I)	2880.00 (I)	1715.00	1050.00

Note 1: A Subrate T-3 Network Interface (from 3 to 33 Mbps) is provisioned utilizing 44.210 Mbps of transport bandwidth; no other service(s) may utilize the remaining bandwidth.

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21 - Fast Packet Access Services

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

21.1.10 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 (Cont'd)					
- Per NNI (Cont'd)					
- MultiLink (BCOS: XAFXT)					
- 3.072 Mbps ¹	XAFNP	\$ 816.00 (I)	\$ 652.50 (I)	\$ 354.00	\$ 750.00
- 6.144 Mbps ¹	XAFNQ	\$1338.00 (I)	\$1069.50 (I)	\$ 580.00	\$ 750.00
- 9.216 Mbps ¹	XAFNR	\$2080.50 (I)	\$1663.50 (I)	\$ 901.00	\$ 750.00
- 12.280 Mbps ¹	XAFNS	\$2749.50 (I)	\$2199.00 (I)	\$1191.00	\$ 750.00

Note 1: The MultiLink Network Interface is provisioned using the same speed Network Interface.

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21 - Fast Packet Access Services

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

21.1.10 Rates and Charges

(A) Network Interfaces

	<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					
- 1.536 Mbps	XAFBC	235.00	187.00	168.00	410.00
- 44.210 Mbps	XAFBD	1941.00	1536.00	1372.00	1050.00
Per NNI					
- 1.536 Mbps	XAFBG	235.00	187.00	168.00	410.00
- 44.210 Mbps	XAFBH	1941.00	1536.00	1372.00	1050.00
B. Automatic Back-Up Capability					
Per UNI					
- 1.536 Mbps	XAFAC	235.00	187.00	168.00	410.00
- 44.210 Mbps	XAFAD	1941.00	1536.00	1372.00	1050.00
Per NNI					
- 1.536 Mbps	XAFAG	235.00	187.00	168.00	410.00
- 44.210 Mbps	XFAFH	1941.00	1536.00	1372.00	1050.00

(3) Primary Network Interface Enablement/Change Charge - applies as set forth in 21.1.9(A) in association with Back-Up Capability.

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

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21 - Fast Packet Access Services

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

21.1.10 Rate and Charges

(B) Optional Features

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
- DLCI ¹			
- Initial Standard DLCI ²	XAFD1	None	None
- Additional Standard DLCI	XAFD2	\$1.50	\$70.00
- Initial Priority DLCI ^{2,3}	XAFP1	\$5.00	None
- Additional Priority DLCI ³	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 ³	XAFP3	\$5.00	\$70.00
- Priority Primary DLCI ³	XAFP4	\$5.00	\$70.00
- Priority Secondary DLCI ³	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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21 - Fast Packet Access Services

21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange Access Frame Relay Service)21.1.10 Rate and Charges

(B) Optional Features

	<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. ¹			
- Over 256 thru 384 Kbps	XAF CJ	25.20	None
- Over 384 thru 512 Kbps	XAF CK	28.80	None
- Over 512 thru 768 Kbps	XAF CL	32.40	None
- Over 768 Kbps thru 1.536 Mbps	XAF CM	41.25	None
- Over 1.536 thru 4 Mbps	XAF CP	130.00	None
- Over 4 thru 10 Mbps	XAF CQ	325.00	None
- Over 10 thru 16 Mbps	XAF CR	525.00	None
- Over 16 thru 34 Mbps	XAF CT	1100.00	None
- Over 34 thru 44.210 Mbps	XAF CU	1500.00	None

Note 1: These CIR Charges are not applicable for configurable DLCIs provided within a Configurable DLCI Bundle associated with Customer Configuration Management Capability.

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21 - Fast Packet Access Services

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

21.1.10 Rate and Charges

(B) Optional Features

	<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			
- Over 256 thru 384 Kbps	XAF5J	27.70	None
- Over 384 thru 512 Kbps	XAF5K	31.70	None
- Over 512 thru 768 Kbps	XAF5L	35.60	None
- Over 768 Kbps thru 1.536 Mbps	XAF5M	45.40	None
- Over 1.536 thru 4 Mbps	XAF5P	143.00	None
- Over 4 thru 10 Mbps	XAF5Q	357.50	None
- Over 10 thru 16 Mbps	XAF5R	577.50	None
- Over 16 thru 34 Mbps	XAF5T	1210.00	None
- Over 34 thru 44.210 Mbps	XAF5U	1650.00	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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21 - Fast Packet Access Services

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

21.1.10 Rate and Charges

(B) Optional Features

MultiCast PVC Group Charge - One MultiCast PVC Group Charge applies per MultiCast PVC on a host site Frame Relay Network Interface. This charge is in addition to the appropriate charges (DLCI, CIR, etc.) for the individual host to remote PVCs which are members of the MultiCast PVC Group.

- (1) Per Standard MultiCast PVC Group (established from multiple host to remote PVCs which utilize all Standard DLCIs) on a host Frame Relay Network Interface of the following transmission speed:

	<u>USOC</u>	Month To <u>Month</u>	Nonrecurring <u>Charges</u>
1.536 Mbps	FRVW1	\$ 210.50	\$ 100.00
3 Mbps	FRVW3	290.80	100.00
6 Mbps	FRVW6	340.00	100.00
9 Mbps	FRVW9	385.00	100.00
12 Mbps	FRVW2	430.00	100.00
15 Mbps	FRVW5	475.00	100.00
18 Mbps	FRVW8	520.00	100.00
21 Mbps	FRVWT	565.00	100.00
24 Mbps	FRVW4	610.00	100.00
27 Mbps	FRVW7	655.00	100.00
30 Mbps	FRVWO	700.00	100.00
33 Mbps	FRVWM	745.00	100.00
44.210 Mbps	FRVWN	840.00	100.00

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21 - Fast Packet Access Services

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

21.1.10 Rate and Charges

(B) Optional Features

(2) Per Priority MultiCast PVC Group (established from multiple host to remote PVCs which utilize all Priority DLCIs) on a host Frame Relay Network Interface of the following transmission speed:

	<u>USOC</u>	Month To <u>Month</u>	Nonrecurring <u>Charges</u>
1.536 Mbps	FRVN1	\$ 225.50	\$ 100.00
3 Mbps	FRVN3	305.80	100.00
6 Mbps	FRVN6	355.00	100.00
9 Mbps	FRVN9	400.00	100.00
12 Mbps	FRVN2	445.00	100.00
15 Mbps	FRVN5	490.00	100.00
18 Mbps	FRVN8	535.00	100.00
21 Mbps	FRVNT	580.00	100.00
24 Mbps	FRVN4	625.00	100.00
27 Mbps	FRVN7	670.00	100.00
30 Mbps	FRVNO	715.00	100.00
33 Mbps	FRVNM	760.00	100.00
44.210 Mbps	FRVNN	855.00	100.00

MultiCast PVC Group Modification Charge - The MultiCast PVC Group Modification Charge is a nonrecurring charge that applies per member PVC requested to be modified, added to or deleted from an existing MultiCast PVC Group.

(3) Per Customer Request

	<u>USOC</u>	Month To <u>Month</u>	Nonrecurring <u>Charges</u>
Per Host to Remote PVC	FRVMC	None	\$ 40.00

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21 - Fast Packet Access Services

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

21.1.10 Rate and Charges

(B) Optional Features

Special Provisioning¹

	<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					
- 1.536 Mbps	XAFGA	44.00	35.00	31.00	62.00
- 3 Mbps	XAFGB	182.00	146.00	128.00	157.00
- 6 Mbps	XAFGC	188.00	150.00	132.00	157.00
- 9 Mbps	XAFGD	203.00	162.00	142.00	157.00
- 12 Mbps	XAFGE	217.00	174.00	152.00	157.00
- 15 Mbps	XAFGF	232.00	186.00	162.00	157.00
- 18 Mbps	XAFGG	247.00	197.00	173.00	157.00
- 21 Mbps	XAFGH	261.00	209.00	183.00	157.00
- 24 Mbps	XAFGJ	276.00	221.00	193.00	157.00
- 27 Mbps	XAFGK	291.00	233.00	204.00	157.00
- 30 Mbps	XAFGL	305.00	244.00	214.00	157.00
- 33 Mbps	XAFGM	320.00	256.00	224.00	157.00
- 44.210 Mbps	XAFGA	364.00	291.00	255.00	158.00

Note 1: Special Provisioning charges are in addition to Standard or Primary Network Interface charges.

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21 - Fast Packet Access Services

21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange
Access Frame Relay Service)21.1.10 Rate and Charges(B) Optional FeaturesSpecial Provisioning¹

		Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
- Per NNI	<u>USOC</u>				
- 1.536 Mbps	XAFGA	44.00	35.00	31.00	62.00
- 3 Mbps	XAFGB	182.00	146.00	128.00	157.00
- 6 Mbps	XAFGC	188.00	150.00	132.00	157.00
- 9 Mbps	XAFGD	203.00	162.00	142.00	157.00
- 12 Mbps	XAFGE	217.00	174.00	152.00	157.00
- 15 Mbps	XAFGF	232.00	186.00	162.00	157.00
- 18 Mbps	XAFGG	247.00	197.00	173.00	157.00
- 21 Mbps	XAFGH	261.00	209.00	183.00	157.00
- 24 Mbps	XAFGJ	276.00	221.00	193.00	157.00
- 27 Mbps	XAFGK	291.00	233.00	204.00	157.00
- 30 Mbps	XAFGL	305.00	244.00	214.00	157.00
- 33 Mbps	XAFGM	320.00	256.00	224.00	157.00
- 44.210 Mbps	XAFGA	364.00	291.00	255.00	158.00

Note 1: Special Provisioning charges are in addition to Standard or Primary Network Interface charges.

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21 - Fast Packet Access Services

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

21.1.10 Rate and Charges

(B) Optional Features

CNM-Customer Configuration Management Capability⁽¹⁾ - 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. (C)

- 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

⁽¹⁾ See footnote (1) on Sheet 27.

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21 - Fast Packet Access Services

21.1 Exchange Access Frame Relay Service (XAFRS) (a.k.a. BellSouth Exchange
Access Frame Relay Service)21.1.10 Rate and Charges

(B) Optional Features

	<u>USOC</u>	Month to <u>Month</u>	<u>Nonrecurring Charges</u>
Regional InterLATA PVC Extension, Committed Information Rate (CIR) (Per InterLATA PVC, per end of extension)			
-Over 256 thru 384 Kbps	XAFRF	85.00	50.00
-Over 384 thru 512 Kbps	XAFRG	103.00	50.00
-Over 512 thru 768 Kbps	XAFRH	143.00	50.00
-Over 768 Kbps thru 1.536 Mbps	XAFRJ	269.00	50.00
-Over 1.536 thru 4 Mbps	XAFRK	608.00	50.00
-Over 4 thru 10 Mbps	XAFRL	1463.00	50.00
-Over 10 thru 16 Mbps	XAFRM	1807.00	50.00
-Over 16 thru 34 Mbps	XAFRN	3689.00	50.00
-Over 34 thru 44.210 Mbps	XAFRO	4112.00	50.00

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21 - Fast Packet Access Services

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

21.1.10 Rate and Charges

	<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

21.2 Reserved for Future Use

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21 - Fast Packet Access Services

21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)

21.3.1 General Description

BellSouth Exchange Access Asynchronous Transfer Mode (ATM) Service (XAATMS) is a connection-oriented data service based on ATM cell-based switching technology. BellSouth XAATMS allows for the interconnection of ATM compatible customer equipment by providing efficient throughput at high speeds of transmission. BellSouth XAATMS provides the switching of symmetrical duplex transmissions of fixed-length ATM cells (herein referred to as ATM cells).

A user network interface (UNI) is available with BellSouth XAATMS. The UNI is a standard interface used to connect the customer to the BellSouth XAATMS switch. It receives the ATM cells into the ATM switch and verifies that the addressing and traffic parameters are valid (according to BellSouth XAATMS technical specifications as referenced in Section 21.3.3) before relaying the ATM cells to the specified destination. The UNI is offered at transmission speeds of 1.536 Mbps, 3.072 Mbps, 4.608 Mbps, 6.144 Mbps, 7.680 Mbps, 9.216 Mbps, 10.752 Mbps, 12.288 Mbps, 18 Mbps, 24 Mbps, 30 Mbps, 36 Mbps, 44.210 Mbps, 149.760 Mbps and 599.040 Mbps. Additionally, Back-Up Network Interfaces are available to provide Back-Up Capability on an optional basis. Back-Up Capability provides 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.

(D)

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21 - Fast Packet Access Services

21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)

21.3.1 General Description

A customer requiring more than a DS1 but less than a DS3, can economically utilize Inverse Multiplexing for ATM Service (IMA) to achieve ATM speeds in DS1 multiples and thereby avoid subscribing to a DS3 user network interface. IMA is a physical layer technology in which a high-speed cell stream is broken down and transported across multiple DS1 links, then reconstructed back into the original stream at the ATM switch or other associated ATM equipment. IMA allows multiple DS1 links to be treated as a single, coherent ATM connection that can be managed as a linked group. IMA network interfaces are available at speeds in multiples of 1.536 Mbps (in quantities from 2 to 8) which results in ATM user network interfaces of 3.072 Mbps, 4.608 Mbps, 6.144 Mbps, 7.680 Mbps, 9.216 Mbps, 10.752 Mbps and 12.288 Mbps.

ATM Service IMA Customer Connection Speed	Quantity of DS1 Links Required
3.072 Mbps	2
4.608 Mbps	3
6.144 Mbps	4
7.680 Mbps	5
9.216 Mbps	6
10.752 Mbps	7
12.288 Mbps	8

Transmission speeds of 18 Mbps, 24 Mbps, 30 Mbps and 36 Mbps are provisioned utilizing 44.210 Mbps of transport bandwidth. Therefore, oversubscription is not allowed at speeds of 18 Mbps, 24 Mbps, 30 Mbps and 36 Mbps; the sum of the equivalent bandwidth for all permanent virtual connections must be less than or equal to the bandwidth of the specified speed. Additionally, Unspecified Bit Rate permanent virtual connections are not allowed on transmission speeds of 18 Mbps, 24 Mbps, 30 Mbps and 36 Mbps.

The rate structure for BellSouth XAATMS is comprised of a Network Interface rate element by transmission speed and rate elements for PVC Features (representing ATM traffic). Connection to BellSouth XAATMS network interfaces is accomplished through dedicated access. For interstate dedicated access, rates, charges, and conditions for Special Access (a.k.a. BellSouth SPA) Services are specified in Section 7. Only non-channelized bandwidth may terminate on a BellSouth XAATMS network interface.

(D)

As BellSouth XAATMS is a connection oriented service, to transfer information a virtual connection must be set up between two network interfaces on a BellSouth XAATMS switch. BellSouth XAATMS supports ATM traffic via permanent virtual connections (PVCs). PVCs are bi-directional virtual channels that are established via the service provisioning process.

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21 - Fast Packet Access Services

21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)

21.3.1 General Description

For BellSouth XAATMS, the logical path between a customer's premises and a network interface on the BellSouth XAATMS switch is referred to as an ATM PVC segment. The mapping together of two ATM PVC segments through the BellSouth XAATMS switch creates an ATM PVC. This ATM PVC is a logical channel representing the path from one premises associated with a BellSouth XAATMS network interface, through the BellSouth XAATMS switch, to a premises associated with a different network interface on the BellSouth XAATMS switch.

Back-Up Capability provides the ability on an optional basis 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 Capability is available at transmission speeds of 1.536 Mbps, 44.210 Mbps, 149.760 Mbps, and 599.040 Mbps. Automatic Back-Up Capability is available at transmission speeds of 149.760 Mbps and 599.040 Mbps. Back-Up Capability is not available for Inverse Multiplexing for ATM Service (IMA). Connection to a Back-Up Network Interface is accomplished through dedicated access; for interstate dedicated access, rates, charges and conditions for Special Access (a.k.a. BellSouth SPA) Services are specified in Section 7. 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. (D)

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.

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).

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21 - Fast Packet Access Services

21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)

21.3.1 General Description

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 VPI/VCIs 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.

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

For Automatic Back-Up Capability, both the Automatic Back-Up Interface and the primary Network Interface will be the same speed.

For Manual 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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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)

21.3.1 General Description

ATM Circuit Emulation Service (ATM CES) allows the interworking of ATM Service with time division multiplexing (TDM) services at a DS1 level. ATM Circuit Emulation allows the encapsulation of DS1 level TDM Service into ATM cells by using AAL1 adaptation. (Adaptation defines how higher layer information such as voice, data and video are placed in the payload of the 53-byte ATM cells.) ATM Circuit Emulation Service is provided to emulate a structured or unstructured DS1 service; when provided to emulate a structured DS1, service may be requested with or without Channel Associated Signaling (CAS).

ATM CES provides for the emulation of a TDM DS1 circuit through the ATM network so that the customer may inter-work TDM with their ATM Service. The customer is responsible for the appropriate charges for such TDM services from other sections in addition to the charges specified herein for Exchange Access ATM Service.

When specifically inter-working BellSouth SWA service with an ATM CES interface, the customer is responsible for the appropriate charges from Sections 6.7 and 6.8 for the associated DS1 BellSouth SWA dedicated transport in addition to the charges specified herein for Exchange Access ATM Service.

With ATM CES, a permanent virtual circuit (PVC) is only available with Constant Bit Rate (CBR).

An Unstructured versus Structured Circuit Emulation Network Interface is selected based upon the customer's specific DS1 needs to respectively interwork an unstructured versus structured DS1 TDM service with ATM Service, subject to availability. ATM Circuit Emulation Service is available at a transmission speed of 1.536 Mbps.

An unstructured Circuit Emulation Network Interface is provided to accept the termination of a full DS1 TDM bit stream from the customer's premises through a DS1 circuit. One Unstructured Circuit Emulation Network Interface is required per such DS1 TDM service. One ATM CBR PVC Segment with 2 Mbps CBR PVC Segment Bandwidth shall apply in association with the service originating from the TDM premises to the ATM switch. Additionally, standard charges apply for corresponding 2 Mbps ATM CBR PVC Segment to which this is mapped within the ATM switch; the associated XAATMS Network Interface must be a transmission speed or type which can accept the 2 Mbps CBR PVC.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)

21.3.1 General Description

A structured Circuit Emulation Network Interface accepts up to 24 DS0 terminations from a channelized DS1 bit stream(s) from the customer. The customer specifies the desired grouping of such DS0 terminations into ATM PVCs. An ATM CBR PVC Segment and Bandwidth Charges¹ apply for each PVC requested in association with the service originating from the TDM premises to the ATM switch. Additionally, the standard charges apply for the corresponding ATM CBR PVC Segments to which these are mapped within the ATM switch.

A Structured Circuit Emulation Network Interface is available with or without Channel Associated Signaling (CAS)² and is specified by the customer when service is ordered. CAS is necessary to support channelized DS1 TDM applications requiring Robbed Bit Signaling support.

Note 1: PVC Segment Bandwidth charges shall be based upon the equivalent bandwidth required for each PVC requested. The transport of TDM service is ATM CES requires additional overhead, sometimes referred to as "cell tax". Consequently, the bandwidth required for a given PVC will be greater than the sum of the DS0 TDM bandwidth. For example, the PVC resulting from a single DS0 TDM bit stream of 64 Kbps will be greater than 64 Kbps as a result of equivalent bandwidth required for overhead and will require two increments of 64 Kbps bandwidth per CBR PVC Segment.

Note 2: However, CAS may not be available at all ATM switch locations.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)21.3.1 General Description

The following provides additional information on the terms used to describe the attributes of BellSouth XAATMS with respect to the PVC Feature Charges which apply for ATM PVC traffic. Information is provided regarding ATM PVC segment, ATM PVC service categories, ATM PVC traffic parameters, and ATM PVC segment bandwidth.

(A) ATM PVC Segment

For BellSouth XAATMS, the ATM PVC segment defines the logical path between a customer's premises and the network interface on the BellSouth XAATMS switch. An ATM PVC segment must be provisioned by the Company via service order activity and remain in place until requested to be removed by the customer. For BellSouth XAATMS, two ATM PVC segments are mapped together through the BellSouth XAATMS switch to create an ATM PVC representing a virtual channel through the BellSouth XAATMS network. For BellSouth XAATMS, an ATM PVC segment can be mapped with a Frame Relay DLCI to form a single Frame Relay to ATM Network Encapsulating 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 Segment¹:</u>
-Non-priority with 0 CIR	and	UBR
-Non-priority with >0 CIR	and	VBR-NRT
-Priority with >0 CIR	and	VBR-RT
-Non-priority with >0 CIR	and	Flat Rate VBR-NRT
-Priority with >0 CIR	and	Flat Rate VBR-rt

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)

21.3.1 General Description

(B) ATM PVC Service Categories

ATM PVC service categories are established to support the service requirements of various categories of customer applications for ATM PVCs. Four ATM PVC service categories are available. The customer must specify the desired service category for each ATM PVC that is ordered. BellSouth XAATMS supports the following types of ATM PVC service categories:

- (1) Constant Bit Rate (CBR): CBR allows for applications where an ATM PVC requires special network timing requirements (i.e., strict PVC cell loss, cell delay and cell delay variation performance). For example, a CBR ATM PVC would be utilized for applications requiring circuit emulation (i.e., a continuously operating logical channel) over BellSouth XAATMS at transmission speeds comparable to DS1 and DS3. Such applications would include private line like service or voice type service where delays in transmission cannot be tolerated. The customer specifies the bandwidth required for each CBR ATM PVC when it is ordered.
- (2) Variable Bit Rate - Real Time (VBR-RT) allows for applications where an ATM PVC requires low cell delay variation. For example, VBR-RT would be utilized for applications such as variable bit rate video compression and packet voice and video which are somewhat tolerant of delay. The customer specifies the bandwidth required for each VBR-RT ATM PVC when it is ordered.
- (3) Variable Bit Rate - Non-Real Time (VBR-NRT): VBR-NRT allows for an ATM PVC that can tolerate larger cell delay variations than VBR-RT. For example, VBR-NRT would be utilized for applications such as data file transfers. The customer specifies the bandwidth required for each VBR-NRT ATM PVC when it is ordered.
- (4) Unspecified Bit Rate (UBR): UBR allows for an ATM PVC where the user does not require one of the ATM PVC service categories described in Sections 2.3.1(B)(1) through (3). For example, UBR would be utilized where the customer seeks a low cost method of transporting bursty data for non-critical applications that can tolerate delay variations. The Company will attempt to deliver all ATM cells received via UBR ATM PVCs; however, network congestion will result in loss of ATM cells. (T)
- (5) Flat Rate VBR (Real Time and Non-Real Time): The ATM PVC is assigned appropriate settings that allow for high levels of burstiness to be treated as best effort and avoid discards unless actual congestion is encountered. For example, Flat Rate VBR could be utilized where the customer seeks to aggregate high volumes of Frame Relay services onto an ATM connection.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)21.3.1 General Description(C) ATM PVC Traffic Parameters

In accordance with the technical specifications for BellSouth XAATMS set forth in the technical publications referenced herein Section 21.3.3, each non-UBR type ATM PVC has a set of traffic parameters to describe the characteristics of the information being transmitted. Fixed values for these traffic parameters are derived from the ATM PVC bandwidth specified by the customer for each ATM PVC. These parameters are:

- (1) Peak Cell Rate (PCR): The PCR, in cells/second, is an upper bound on the source traffic that can be submitted on a BellSouth XAATMS network interface. PCR is a traffic parameter considered for both CBR and VBR service categories.

PCR is the only traffic parameter considered for a CBR ATM PVC; the equivalent bandwidth per CBR ATM PVC equals the PCR, in cells/second, times 0.000424.

PCR is one of three traffic parameters considered for a VBR ATM PVC. For a VBR-RT PVC, PCR is 200% of the SCR described following. For VBR-NRT, PCR is 400% of the SCR described following.

For Flat Rate VBR(ATM to ATM PVC), the PCR is defined by the customer. For Flat Rate VBR(FR to ATM Encapsulating PVC), the PCR is automatically calculated based on the Frame Relay to ATM Network Inter-working CIR, Burst Committed(Bc) and Burst Excess(Be).

- (2) Sustainable Cell Rate (SCR): The SCR, in cells/second, is an upper bound on the conforming average cell rate of a BellSouth XAATMS network interface over time.

SCR is a traffic parameter considered only for a VBR ATM PVC. The equivalent bandwidth per VBR-RT ATM PVC is equal to the SCR, in cells/second, times 0.000512. The bandwidth per VBR-NRT ATM PVC is equal to the SCR, in cells/second, times 0.000804.

For Flat Rate VBR(ATM to ATM PVC), the SCR is defined by the customer. For Flat Rate VBR(FR to ATM Encapsulating PVC), the SCR is automatically calculated based on the Frame Relay to ATM Network Inter-working CIR.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)

21.3.1 General Description

(C) ATM PVC Traffic Parameters

- (3) Maximum Burst Size (MBS): MBS is the maximum number of consecutive cells that may be transmitted at the peak cell rate.

MBS is a traffic parameter considered for a VBR ATM PVC. For a VBR-RT ATM PVC, the MBS is fixed at 32 cells/second. For a VBR-NRT ATM PVC, the MBS is fixed at 100 cells/second.

For Flat Rate VBR-RT (ATM to ATM PVC), the MBS is fixed at 32 cells/second. For a Flat Rate VBR-NRT (ATM to ATM PVC), the MBS is fixed at 100 cells/second.

For Flat Rate VBR-RT (FR to ATM Encapsulating PVC), the MBS is fixed at 32 cells/second. For a Flat Rate VBR-NRT (FR to ATM Encapsulating PVC), the MBS is fixed at 100 cells/second.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)21.3.1 General Description(D) ATM PVC Segment Bandwidth

An ATM PVC Segment Bandwidth Charge is applicable for each CBR or VBR ATM PVC segment. Such non-UBR ATM PVC equivalent bandwidth represents the BellSouth XAATMS network resources based on the ATM PVC's traffic parameters. The ATM PVC Segment Bandwidth Charge is derived by multiplying the ATM PVC segment's equivalent bandwidth (calculation following) by the appropriate ATM PVC Segment Bandwidth Charge (expressed in megabits or increments of 64 Kbps as described following).

The following calculations are applicable for determining non-UBR ATM PVC segment bandwidth based upon the ATM PVC category of service.

- (1) CBR equivalent bandwidth is equal to the PCR (cells/sec) times 0.000424. PCR is equal to increments of 64 Kbps of equivalent bandwidth times 150.943, or megabits of equivalent bandwidth times 2358.491.
- (2) VBR-RT equivalent bandwidth is equal to the SCR (cells/sec) times 0.000512. For VBR-RT, service, the PCR is fixed at 200% of the SCR and the MBS is fixed at 32 cells/second. SCR is equal to increments of 64 Kbps of equivalent bandwidth times 125.000, or megabits of equivalent bandwidth times 1953.125.
- (3) VBR-NRT equivalent bandwidth is equal to the SCR (cells/sec) times 0.000804. For VBR-NRT service, the PCR is fixed at 400% of the SCR and the MBS is fixed at 100 cells/second. SCR is equal to increments of 64 Kbps of equivalent bandwidth times 79.602, or megabits of equivalent bandwidth times 1243.781.

Where the result from the ATM PVC segment equivalent bandwidth calculation is greater than 1.536 Mbps, the value is expressed in units of megabits and (if a fraction of a megabit) is rounded up to the next whole megabit. This bandwidth is multiplied by the Per Megabit Bandwidth Charge.

Where the result from the ATM PVC segment equivalent bandwidth calculation is less than or equal to 1.536 Mbps, that number should be divided by .064 Mbps to arrive at a quantity of 64 Kbps increments. If the resulting number is not a whole number, it is rounded up to the next whole number and represents the number of 64 Kbps increments that should be utilized in the derivation of the PVC Segment Bandwidth Charge. This bandwidth is multiplied by the Per Increment of 64 Kbps Bandwidth Charge.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)

21.3.1 General Description

(D) ATM PVC Segment Bandwidth

The following table illustrates the ATM PVC segment equivalent bandwidth calculation for each non-UBR type ATM PVC with 1 megabit of bandwidth.

ATM PVC Service Category	Equivalent Bandwidth	Traffic Parameters		
		Peak Cell Rate (Cells/Sec)	Sustainable Cell Rate (Cells/Sec)	Maximum Burst Size (Cells)
CBR	1 Megabit	2358	N/A	N/A
VBR-RT	1 Megabit	3906	1953	32
VBR-NRT	1 Megabit	4975	1244	100

21.3.2 Service Description

(A) Installation of Service

Nonrecurring charges apply to each BellSouth XAATMS UNI installed.

Nonrecurring charges for the Network Interface elements are set forth in Section 21.3.10(A).

(T)

(B) Installation of Features

Nonrecurring charges apply to each ATM PVC segment by ATM PVC service category as set forth in Section 21.3.10(B).

(T)

(C) 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 Section 5.6(E). 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 Sections 21.3.2(D) and 21.3.10(D).

(T)

(T)

(D)

- (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.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)21.3.2 Service Description (Cont'd)(C) Service Rearrangements (Cont'd)

- (b) Requests for an existing XAATMS service to be rearranged to utilize a different XAATMS switch (e.g., to allow the customer to order feature/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 XAATMS Network Interface is requested to be provisioned off another XAATMS switch in the same Telephone Company Central Office as the existing switch being used, no nonrecurring charges shall be applicable.
- When the XAATMS Network Interface is requested to be provisioned off another XAATMS 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.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)

21.3.2 Service Description

(D) 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 Section 21.3.10(D) will apply. Charges are applied on a per Billing Account Number (BAN). (T)

(E) Maintenance

In order to maintain the quality of BellSouth XAATMS, the Telephone Company reserves the right to perform preventive maintenance and software updates to the network. This could result in BellSouth XAATMS 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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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.2 Service Description (Cont'd)

(F) Service Level Agreements

Service Level Agreements (SLAs) provide the Company's service level commitments for specific aspects of its ATM network's performance. SLAs are only provided for customers with at least ten ATM UNIs. 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.

- (1) SLA commitments are provided for Network Availability, Cell Delivery Rate and Cell Loss Ratio.
- (2) SLA credits are provided for missed commitments, except as specified otherwise in Sections 21.3.2(F) (3) and (4). 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 Telephone Company's calculation of its performance through the CNM-NVS system shall be the sole determinate of the Telephone Company's obligation to provide a credit for a missed performance commitment. (T)
- (3) SLA credits for missed commitments do not apply when any commitment is not met because the Telephone Company does not have control over the circumstances causing the commitment to be missed. Situations over which the Telephone Company does not have control can be defined as, but not limited to the following: (T)
 - 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 Telephone 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 Telephone Company's control, (T)

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.2 Service Description (Cont'd)

(F) Service Level Agreements

(3) (Cont'd)

- the customer's premises equipment,
- unavailability of the customer's facilities and/or equipment, and
- customer oversubscription of the ATM UNI beyond 200%, calculated as the total VBR equivalent bandwidth on all PVCs carried by the ATM UNI (after the CBR bandwidth is subtracted) may not be greater than 200% of the ATM UNI Network Interface speed.

- (4) 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 Section 21.3.2(E) and 2) customer requests for rearrangements which resulted in that service being unavailable as set forth in Sections 21.3.2(C)(a) and (b). 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. (T) (T) (D)

(5) Service Level Commitments

SLA commitments for the specific aspects of the ATM network's performance set forth in Section 21.3.2(F)(1) 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: (T)

(a) Network Availability Commitment: 99.9%

- The Network Availability commitment is provided on the customer's total ATM network. Network Availability will measure the percentage of time during a calendar month that the customer's ATM network is available.
- Network availability will be measured through the CNM-NVS system for the customer's total ATM network and for each individual ATM UNI for a whole calendar month.
- For the purpose of measuring Network Availability, times during which an ATM UNI is out of operation in association with maintenance windows (as set forth in Section 21.3.2(E)) and in association with situations over which the Telephone Company does not have control (as set forth in Section 21.3.2(F)(3)) are counted as "available" time. (T) (T)

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)21.3.2 Service Description (Cont'd)(F) Service Level Agreements (Cont'd)(5) Service Level Commitments (Cont'd)(a) Network Availability Commitment: 99.9% (Cont'd)

- Total ATM Network - Network Availability: Network Availability for the customer's total network is calculated by subtracting the total unavailable time for all the ATM UNIs in a specific total calendar month, from the total available time for all the ATM UNIs in that specific total calendar month, and then dividing the difference by the total available time for all the ATM UNIs 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 ATM UNI whose specific individual Network Availability measurement is below 99.9%.
- Individual ATM UNI - Network Availability: Network Availability for an individual ATM UNI 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 ATM UNI is less than 99.9%, the SLA Network Availability credit set forth in 21.3.2(F)(6)(a) will then be issued on that specific individual ATM UNI.

(b) Cell Delivery Rate Commitment: by PVC Category of Service

- A Cell Delivery Rate commitment is provided on a per PVC basis for each ATM PVC with one of the following classes of service: CBR, VBR-RT and VBR-NRT. (A Cell Delivery Rate commitment is not provided for ATM PVCs with a UBR class of service).
- The specific commitment for Cell Delivery Rate for a PVC with a CBR class of service is 99.99%.
- The specific commitment for Cell Delivery Rate for a PVC with a VBR-RT class of service is 99.9%.
- The specific commitment for Cell Delivery Rate for a PVC with a VBR-NRT class of service is 99.5%.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)21.3.2 Service Description (Cont'd)(F) Service Level Agreements (Cont'd)

(5) Service Level Commitments (Cont'd)

(b) Cell Delivery Rate Commitment: by PVC Category of Service (Cont'd)

- Through the CNM-NVS System, Cell Delivery Rate will measure the percentage of cells successfully delivered for a CBR or VBR PVC during a specific calendar month. The Cell Delivery Rate measures the quantity of cells received versus quantity of cells transmitted during a specific calendar month between the two ATM UNIs forming the PVC (i.e., the difference in cells transmitted versus received are considered "lost").
- The monthly Cell Delivery Rate for a qualifying PVC in a specific calendar month is determined by subtracting the total cells lost from the total cells transmitted, divided by the total cells transmitted. If the resulting percentage representing the percent of cells delivered for that PVC is less than the specific commitment for that PVC class of service, this commitment has been missed and the Cell Delivery Rate credit set forth in 21.3.2(F)(6)(b) will then be issued on this ATM PVC.

(c) Cell Loss Ratio Commitment: 1%

- A Cell Loss Ratio commitment is provided on a per PVC basis for every ATM PVC.
- Through the CNM-NVS system, Cell Loss Ratio will measure the percentage of transmitted cells not delivered (or lost) for a PVC during a specific calendar month. The Cell Loss Ratio measures the quantity of cells lost versus the quantity of cells transmitted during a specific calendar month between the two ATM UNIs forming the PVC (i.e., the difference in cells transmitted versus received are considered "lost").
- The monthly Cell Loss Ratio for a PVC in a specific calendar month is determined by dividing the quantity of cells lost (determined by subtracting the quantity of cells received from the quantity of cells transmitted) by the quantity of cells transmitted during that calendar month. If the resulting percentage representing the percent of cells lost for the PVC is greater than 1%, this commitment has been missed and the Cell Delivery Rate credit set forth in 21.3.2(F)(6)(c) will then be issued on this ATM PVC based upon its category of service.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.2 Service Description (Cont'd)

(F) Service Level Agreements (Cont'd)

(6) 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 Section 21.3.2(F).

(T)

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

(a) Network Availability SLA Credit¹:

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

(b) Cell Delivery Rate SLA Credit¹:

- This credit is applied per individual ATM PVC (i.e., PVC Segment pair forming the PVC) that does not meet the Cell Delivery Rate commitment.
- For each PVC not meeting this commitment for a specific calendar month, a credit equal to \$5.00 for each PVC Segment will be issued.

(c) Cell Loss Ratio SLA Credit¹:

- This credit is applied per individual ATM PVC (i.e., PVC Segment pair forming the PVC) that does not meet the Cell Loss Ratio commitment.
- For each PVC not meeting this commitment for a specific calendar month, a credit equal to \$5.00 for each PVC Segment 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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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.3 Technical Specifications

BellSouth XAATMS services will conform to the service specifications and standards for BellSouth XAATMS service (including the BellSouth XAATMS UNI) set forth in the following references:

- BellSouth Technical Reference 73585, "Asynchronous Transfer Mode (ATM) Network Interface and Performance Specifications".

The specifications set forth in BellSouth TR 73585 are in conformance with the following national standards for ATM services:

- ATM Forum documents, "ATM User-Network Interface Specification" (Versions 3.0 and 3.1).

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.4 Interface Specifications

In accordance with the interface specifications set forth in BellSouth TR 73585, the following is available with BellSouth XAATMS:

ATM Cell-switched (UNI)

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 BellSouth XAATMS. Also included in that Section are other charges which may be associated with ordering BellSouth XAATMS (e.g., Service Date Change Charges, Cancellation Charges, etc.).

21.3.7 Minimum Period of Service

The minimum period per BellSouth XAATMS rate element selected is one month.

21.3.8 Rate Conditions

Rates and charges are specified in Section 21.3.10 for the ordering and provisioning of BellSouth XAATMS. BellSouth XAATMS is available under the Fast Packet Services Payment Plan (SPP) as specified in Section 2.4.8(C). (T)

BellSouth XAATMS is available for use with the Fast Packet Savings Plan subject to the conditions provided in Section 2.4.8(F). (T)

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.8 Rate Conditions (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.

21.3.9 Rate Categories

The following rate categories apply to BellSouth XAATMS:

(A) Network Interface

This rate category provides for the customer's termination on the BellSouth XAATMS switch. The Network Interface rate category includes the BellSouth XAATMS switching function. A recurring rate and nonrecurring charge is set forth in Section 21.3.10 for each transmission speed of standard or primary Network Interface and Back-Up Network Interface.

(T)

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21.3.9 Rate Categories (Cont'd)

A nonrecurring Primary Network Interface Enablement/Change Charge provided in Section 21.3.10 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. (T)

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.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)21.3.9 Rate Categories (Cont'd)(B) PVC Features

The PVC Features rate category provides for the ordering and provisioning of ATM PVCs in association with the BellSouth XAATMS network interface.

The rates for PVC Features may vary by ATM PVC service category and are listed in Section 21.3.10 by applicable ATM PVC service category.

- (1) ATM PVC Segment Charge - An ATM PVC Segment Charge applies for each ATM PVC segment established over a network interface. An ATM PVC Segment Charge applies under all ATM PVC service categories.
- (2) ATM PVC Segment Bandwidth Charge - An ATM PVC Segment Bandwidth Charge is required per ATM PVC segment established under the CBR or VBR ATM PVC service category (but is not applicable to UBR, Flat Rate VBR-rt or Flat Rate VBR-nrt ATM PVCs). ATM PVC bandwidth represents BellSouth XAATMS network resources required for the CBR or VBR ATM PVC and is based on the CBR or VBR ATM PVC's traffic parameters (i.e., PCR, SCR, and MBS). The total charge for this rate element per segment is determined by multiplying the CBR or VBR ATM PVC segment bandwidth by the ATM PVC Segment Bandwidth Charge, either Per Megabit or Per Increment of 64 Kbps (as appropriate per Section 21.3.1(D)).
- (3) UBR Service Activation Charge - A UBR Service Activation is applicable for each network interface over which UBR ATM PVC(s) will traverse. One charge is applicable per network interface regardless of how many UBR ATM PVCs will traverse that network interface.
- (4) Flat Rate VBR-nrt Service Activation Charge - A Flat Rate VBR-nrt Service Activation is applicable for each network interface over which Flat Rate VBR-nrt ATM PVC(s) will traverse. One charge is applicable per network interface regardless of how many Flat Rate VBR-nrt ATM PVCs will traverse that network interface.
- (5) Flat Rate VBR-rt Service Activation Charge - A Flat Rate VBR-rt Service Activation is applicable for each network interface over which Flat Rate VBR-rt ATM PVC(s) will traverse. One charge is applicable per network interface regardless of how many Flat Rate VBR-rt ATM PVCs will traverse that network interface.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.9 Rate Categories (Cont'd)

(B) PVC Features (Cont'd)

(6) Regional InterLATA PVC Extension

The Regional InterLATA PVC Extension is an Optional Feature that enables customers to extend a PVC between XAATMS network interfaces in two different LATAs.

The customer must request a Regional InterLATA PVC Extension between two LATAs within BellSouth's operating territory. Each Regional InterLATA PVC Extension has an associated bandwidth that must match the bandwidth of the PVC Segments associated with each end of the PVC. Each end of the PVC is at a customer premises.

The appropriate rates and charges for the Regional InterLATA PVC Extension are set forth in Section 21.3.10(B)(7) and are applied per end of extension. Both a nonrecurring charge (the Regional InterLATA PVC Extension Establishment Charge) and a monthly rate (the Regional InterLATA Extension Bandwidth Charge) apply for each end of the extension. The Regional InterLATA PVC Extension charges are in addition to the associated PVC Segment and PVC Segment Bandwidth charges. (T)

A customer request to add a Regional InterLATA PVC Extension to an existing PVC arrangement shall be considered a disconnect of the existing PVC rate elements and a new connect of the new service elements (e.g., PVC Segment, PVC bandwidth, Regional InterLATA Extension, etc.); nonrecurring charges shall apply.

Regional InterLATA PVC Extensions are technically not compatible with certain types of XAATMS Network Interfaces or certain types of XAATMS PVCs; these technical limitations are set forth in TR-73585.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)21.3.9 Rate Categories (Cont'd)(B) PVC Features (Cont'd)

(7) Intelligent PVC

Intelligent PVC capability allows automatic rerouting on a per PVC basis within the ATM Service network. The Intelligent PVC feature is associated with a customer-specified three Segment PVC. With the Intelligent PVC feature, a PVC is established between an originating PVC Segment (referred to as the pivot endpoint) and a primary terminating PVC Segment (referred to as the primary endpoint). Cells from the originating PVC Segment (pivot endpoint) will automatically be rerouted to a secondary terminating PVC Segment (referred to as the secondary endpoint) if the ATM switch detects trouble associated with the primary terminating PVC Segment (primary endpoint). After such rerouting, the ATM switch will continue to monitor the signals from the primary endpoint and when the trouble is cleared, will automatically reroute the cells going to the secondary endpoint back to the primary endpoint. The BellSouth document TR-73585 provides more detailed technical information on how Intelligent PVC capability is provided.

To create an Intelligent PVC, the customer requests the mapping of three PVC Segments. One Intelligent PVC Charge (a recurring rate) applies per customer-specified arrangement of three PVC Segments and applies in addition to the appropriate nonrecurring and recurring charges for each of the three PVC Segments (i.e., the charges for each PVC Segment and PVC Segment bandwidth). The Intelligent PVC Charge shall be billed to the Network Interface associated with the PVC Segment which is the pivot endpoint of this PVC.

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

The pivot endpoint of an Intelligent PVC must be provisioned out of a Company-provided ATM 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 the same customer and of the same service type. However, the pivot endpoint does not have to match the service type of the primary and secondary endpoints.

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

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21 - Fast Packet Access Services

21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.9 Rate Categories (Cont'd)

(C) Feature Change Charge

A Feature Change Charge applies for a customer request to change an existing BellSouth XAATMS PVC Feature from Section 21.3.10 (B) for which there is no nonrecurring charge. (Examples: A Feature Change Charge applies when a customer requests a change in the ATM PVC segment bandwidth required on an existing non-UBR ATM PVC. A Feature Change Charge applies when a customer requests that UBR Service Activation be added to an existing Network Interface which currently is not activated to carry UBR ATM PVCs if the request does not also include an order for a UBR ATM PVC Segment which carries a nonrecurring charge. A customer request to change the service category of an existing CBR ATM PVC to a VBR-RT ATM PVC would not involve a Feature Change Charge but would be treated as a disconnect of the CBR ATM PVC and a new request for a VBR-RT ATM PVC for which there is a nonrecurring charge.)

Only one Feature Change Charge applies per customer request that involves changes to multiple existing ATM PVC's of the same ATM PVC service category that are provisioned out of the same BellSouth XAATMS switch. (For example, one Feature Change Charge would apply per customer request to change the ATM PVC segment bandwidth associated with two existing CBR ATM PVCs provisioned out of the same BellSouth XAATMS switch.

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21 - Fast Packet Access Services

21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.9 Rate Categories (Cont'd)

(D) Transfer of Service

When a change to the customer of record is requested, transfer of service charges, as set forth in Section 21.3.10(D) will apply. (T)
Charges are applied per 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.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.9 Rate Categories (Cont'd)

(E) Optional Features

(1) 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. XAATMS Special Provisioning is available in 1.536 Mbps, 18 Mbps, 27 Mbps, 30 Mbps, 36 Mbps, 44.210 Mbps, 149.760 Mbps and 599.040 Mbps speeds. It is not available with ATM IMA or ATM Circuit Emulation Services. 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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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.3 Rate Categories (Cont'd)

(E) Optional Features (Cont'd)

(2) Automatic Protection Switching

The Automatic Protection Switching (APS) optional feature is provided in conjunction with the Special Provisioning optional feature and is available at the transmission speeds of 149.760 Mbps and 599.040 Mbps.

The APS optional feature provides one-to-one line protection switching for point-to-point optical facilities between network elements. Protection is furnished through the use of a switching arrangement that automatically switches to a spare line when the working line fails.

APS offers the option of having card and line protection by providing a secondary and diverse optical facility and secondary line cards for the network switches on both ends.

APS is only available for new XAATMS circuits installed on or after September 27, 2007.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.10 Rates and Charges

(A) Network Interfaces

(1) Standard or Primary Network Interfaces

	<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>
-Per UNI					
-1.536 Mbps	XAA11	\$ 441.00(I)	\$ 402.00(I)	\$ 194.00	\$ 500.00
-3.072 Mbps	XAA37	\$ 816.00(I)	\$ 652.50(I)	\$ 354.00	\$ 750.00
-4.608 Mbps	XAA46	\$ 1077.00(I)	\$ 861.00(I)	\$ 467.00	\$ 750.00
-6.144 Mbps	XAA61	\$ 1338.00(I)	\$ 1069.50(I)	\$ 580.00	\$ 750.00
-7.680 Mbps	XAA76	\$ 1672.50(I)	\$ 1338.00(I)	\$ 725.00	\$ 750.00
-9.216 Mbps	XAA92	\$ 2080.50(I)	\$ 1663.50(I)	\$ 901.00	\$ 750.00
-10.752 Mbps	XAA10	\$ 2415.00(I)	\$ 1932.00(I)	\$ 1046.00	\$ 750.00
-12.288 Mbps	XAA12	\$ 2749.50(I)	\$ 2199.00(I)	\$ 1191.00	\$ 750.00
-18 Mbps ¹	XAA18	\$ 2866.50(I)	\$ 2293.50(I)	\$ 1242.00	\$ 750.00
-24 Mbps ¹	XAA24	\$ 3013.50(I)	\$ 2410.50(I)	\$ 1306.00	\$ 750.00
-30 Mbps ¹	XAA30	\$ 3307.50(I)	\$ 2646.00(I)	\$ 1433.00	\$ 750.00
-36 Mbps ¹	XAA36	\$ 3528.00(I)	\$ 2823.00(I)	\$ 1529.00	\$ 750.00
-44.210 Mbps	XAA14	\$ 3639.00(I)	\$ 2880.00(I)	\$ 1550.00	\$ 750.00
-149.760 Mbps	XAA17	\$ 6750.00(I)	\$ 6075.00(I)	\$ 2880.00	\$ 1000.00
-599.040 Mbps	XAA19	\$13,500.00(I)	\$12,150.00(I)	\$ 5800.00	\$ 1500.00

Note 1: Technical limitations associated with the provisioning of Transmission Speeds 18 Mbps, 24 Mbps, 30 Mbps, and 36 Mbps are set forth in 21.3.1.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.10 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					
- 1.536 Mbps	XAABA	198.00	183.00	133.00	500.00
- 44.210 Mbps	XAABB	1213.00	974.00	791.00	750.00
- 149.760 Mbps	XAABC	3600.00	3238.00	2302.00	1000.00
- 599.040 Mbps	XAABD	7200.00	6480.00	4640.00	1500.00
B. Automatic Back-Up Capability					
Per UNI					
- 149.760 Mbps	XAAAB	3600.00	3238.00	2302.00	1000.00
- 599.040 Mbps	XAAAD	7200.00	6480.00	4640.00	1500.00
(3) Primary Network Interface Enablement/Change Charge - applies as set forth in 21.3.9(A) in association with Back-Up Capability.					

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

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
 (Cont'd)

21.3.10 Rates and Charges (Cont'd)

(A) Network Interfaces (Cont'd)

		Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
	<u>USOC</u>				
(4) ATM Circuit Emulation Service					
Per UNI					
- Unstructured					
1.536 Mbps	XAACQ	\$ 238.00	\$ 207.00	\$ 188.00	\$ 500.00
- Structured					
1.536 Mbps	XAACA	\$ 273.00	\$ 238.00	\$ 217.00	\$ 500.00

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.10 Rates and Charges (Cont'd)

(B) PVC Features

	USOC	Month to Month	Nonrecurring Charges
(1) CBR ATM PVC Service Category			
-PVC Segment Charge			
-Per Standard PVC Segment	XAACS	\$ 5.00	\$ 70.00
-Per Pivot PVC Segment ¹	XAACT	5.00	70.00
-Per Primary PVC Segment ¹	XAACU	5.00	70.00
-Per Secondary PVC Segment ¹	XAACV	5.00	70.00
-Bandwidth Charge (Per segment)			
-Per Megabit, or	XAACM	\$ 25.00	-
-Per Increment of 64 Kbps	XAACK	\$ 1.60	-
(2) VBR-RT ATM PVC Service Category			
-PVC Segment Charge			
-Per Standard PVC Segment	XAAVS	\$ 5.00	\$ 70.00
-Per Pivot PVC Segment ¹	XAAVT	5.00	70.00
-Per Primary PVC Segment ¹	XAAVU	5.00	70.00
-Per Secondary PVC Segment ¹	XAAVV	5.00	70.00
-Bandwidth Charge (Per segment)			
-Per Megabit, or	XAAVM	\$ 25.00	-
-Per Increment of 64 Kbps	XAAVK	\$ 1.60	-
(3) VBR-NRT ATM PVC Service Category			
-PVC Segment Charge			
-Per Standard PVC Segment	XAANS	\$ 5.00	\$ 70.00
-Per Pivot PVC Segment ¹	XAANT	5.00	70.00
-Per Primary PVC Segment ¹	XAANU	5.00	70.00
-Per Secondary PVC Segment ¹	XAANV	5.00	70.00
-Bandwidth Charge (Per segment)			
-Per Megabit, or	XAANM	\$ 25.00	-
-Per Increment of 64 Kbps	XAANK	\$ 1.60	-

Note 1: Applicable to PVC Segments in an Intelligent PVC configuration.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.10 Rates and Charges (Cont'd)

(B) PVC Features (Cont'd)

		Month	Nonrecurring
		to	
	<u>USOC</u>	<u>Month</u>	<u>Charges</u>
(4) UBR ATM PVC Service Category			
-PVC Segment Charge			
-Per Standard PVC Segment	XAAUS	\$ 5.00	\$ 70.00
-Per Pivot PVC Segment ¹	XAAUT	5.00	70.00
-Per Primary PVC Segment ¹	XAAUU	5.00	70.00
-Per Secondary PVC Segment ¹	XAAUV	5.00	70.00
-UBR Service Activation Charge			
-Per 1.536 Mbps Network Interface	XAAA1	\$ 10.00	-
-Per IMA Network Interface	XAAAC	\$ 125.00	-
-Per 44.210 Mbps Network Interface	XAAA4	\$ 250.00	-
-Per 149.760 Mbps Network Interface	XAAA7	\$ 750.00	-
-Per 599.040 Mbps Network Interface	XAAA9	\$3000.00	-
(5) Flat Rate VBR-nrt PVC Service Category			
-PVC Segment Charge			
-Per Standard PVC Segment	XAAKN	\$ 10.00	\$ 70.00
-Per Pivot PVC Segment ¹	XAAKO	10.00	70.00
-Per Primary PVC Segment ¹	XAAKP	10.00	70.00
-Per Secondary PVC Segment ¹	XAAKQ	10.00	70.00
-VBR Service Activation Charge			
-Per 1.536 Mbps Network Interface	XAAA1	\$ 10.00	-
-Per IMA Network Interface	XAAAC	\$ 125.00	-
-Per Subrate T3 Network Interface	XAAA3	\$ 250.00	-
-Per 44.210 Mbps Network Interface	XAAA4	\$ 250.00	-
-Per 149.760 Mbps Network Interface	XAAA7	\$ 750.00	-
-Per 599.040 Mbps Network Interface	XAAA9	\$3000.00	-

Note 1: Applicable to PVC Segments in an Intelligent PVC configuration.

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.10 Rates and Charges (Cont'd)

(B) PVC Features (Cont'd)

		Month	to	Nonrecurring
	<u>USOC</u>	<u>Month</u>		<u>Charges</u>
(6) Flat Rate VBR-rt PVC Service Category				
-PVC Segment Charge				
-Per Standard PVC Segment	XAAKR	\$ 20.00	\$	70.00
-Per Pivot PVC Segment ¹	XAAKT	20.00		70.00
-Per Primary PVC Segment ¹	XAAKU	20.00		70.00
-Per Secondary PVC Segment ¹	XAAKV	20.00		70.00
-VBR Service Activation Charge				
-Per 1.536 Mbps Network Interface	XAAA1	\$ 10.00		-
-Per IMA Network Interface	XAAAAC	\$ 125.00		-
-Per Subrate T3 Network Interface	XAAA3	\$ 250.00		-
-Per 44.210 Mbps Network Interface	XAAA4	\$ 250.00		-
-Per 149.760 Mbps Network Interface	XAAA7	\$ 750.00		-
-Per 599.040 Mbps Network Interface	XAAA9	\$3000.00		-

Note 1: Applicable to PVC Segments in an Intelligent PVC configuration.

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21 - Fast Packet Access Services

21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.10 Rates and Charges (Cont'd)
(B) PVC Features (Cont'd)

(7) Regional InterLATA PVC Extension

	<u>USOC</u>	<u>Month to Month</u>	<u>Nonrecurring Charges</u>
Establishment Charge			
-Per PVC, Per End of Extension, plus	XAARQ	\$ None	\$ 50.00
CBR PVC Service Category:			
Regional InterLATA PVC Extension			
Bandwidth Charge			
-Per Megabit, or	XAARR	100.00	None
-Per Increment of 64 Kbps	XAARS	6.50	None
VBR-RT PVC Service Category:			
Regional InterLATA PVC Extension			
Bandwidth Charge			
-Per Megabit, or	XAART	100.00	None
-Per Increment of 64 Kbps	XAARU	6.50	None
VBR-NRT PVC Service Category:			
Regional InterLATA PVC Extension			
Bandwidth Charge			
-Per Megabit, or	XAARV	100.00	None
-Per Increment of 64 Kbps	XAARW	6.50	None
UBR PVC Service Category:			
-Regional InterLATA PVC Extension			
Bandwidth Charge	XAARX	100.00	None
Flat Rate VBR-rt PVC Service Category:			
-Regional InterLATA PVC Extension			
Bandwidth Charge	XAARY	100.00	None
Flat Rate VBR-nrt PVC Service Category:			
-Regional InterLATA PVC Extension			
Bandwidth Charge	XAARZ	100.00	None

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21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.10 Rates and Charges (Cont'd)

(C) Feature Change Charge

	<u>USOC</u>	Month to <u>Month</u>	Nonrecurring <u>Charges</u>
-Per Occurrence, Per Feature	XAAFC	None	\$75.00

(D) Transfer of Service

-Per Billing Account Number	XAATF	None	\$ 75.00
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21 - Fast Packet Access Services

21.3 BellSouth Exchange Access Asynchronous Transfer Mode Service (XAATMS)
(Cont'd)

21.3.10 Rates and Charges

(E) Optional Features

(1) Special Provisioning¹

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
-Per UNI					
-1.536 Mbps	XAADA	\$ 44.00	\$ 35.00	\$ 29.00	\$ 75.00
-18 Mbps	XAADB	287.00	229.00	186.00	113.00
-24 Mbps	XAADC	301.00	241.00	196.00	113.00
-30 Mbps	XAADD	331.00	265.00	215.00	113.00
-36 Mbps	XAADE	353.00	282.00	229.00	113.00
-44.210 Mbps	XAADE	364.00	291.00	237.00	113.00
-149.760 Mbps	XAADG	675.00	540.00	439.00	150.00
-599.040 Mbps	XAADH	1350.00	1080.00	878.00	225.00

(2) Intelligent PVC Charge

	USOC	Month to Month	Nonrecurring Charges
-Per Intelligent PVC	XAAFP	\$2.00	None

(3) Automatic Protection Switching

	USOC	Month to Month	Nonrecurring Charges
-149.760 Mbps	XAAAP	\$433.80	\$940.71
-599.040 Mbps	XAAAP	\$433.80	\$940.71

Note 1: Special Provisioning charges are in addition to Standard or Primary Network Interface charges.

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21 - Fast Packet Access Services

21.4 Managed Shared Frame Relay Service (MSFRS)21.4.1 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.

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21 - Fast Packet Access Services

21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)21.4.1 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 256 Kbps, 320 Kbps, 384 Kbps, 448 Kbps, 512 Kbps, 576 Kbps, 640 Kbps, 704 Kbps, 768 Kbps, 1024 Kbps, 1152 Kbps, 1.536 Mbps, 3 Mbps, 6 Mbps, 9 Mbps, 12 Mbps, 15 Mbps, 18 Mbps, 21 Mbps, 24 Mbps, 27 Mbps, 30 Mbps, 33 Mbps and 44.210 Mbps. MSFRS MultiLink Connections are available as UNI or NNIs at transmission speeds of 3.072 Mbps, 6.144 Mbps, 9.216 Mbps, and 12.280 Mbps, which is discussed following. Additionally, MSFRS Back-Up Connections are available as UNI or NNIs at transmission speeds of 1.536 Mbps and 44.210 Mbps 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. 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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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)21.4.1 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 Guidebook 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.

A customer requiring more than a DS1 but less than a DS3, can economically utilize MultiLink Frame Relay (MLFR) to achieve Frame Relay speeds in DS1 multiples thereby avoid subscribing to a DS3 user network interface. MLFR is provisioned using multiple DS1 facilities bonded together by the central office equipment used in providing MLFR and the appropriate compatible equipment provided by the customer at their premises to terminate these DS1 facilities. Technical details and limitations of MLFR can be found in BellSouth Technical Reference 73587. MultiLink UNIs and NNIs are available at transmission speeds of 3.072 Mbps, 6.144 Mbps, 9.216 Mbps and 12.280 Mbps. Following are the equivalent number of DS1 facilities provisioned in association with each speed of MultiLink connection.

MultiLink Connection	Quantity of DS1 Facilities Required
3.072 Mbps	2
6.144 Mbps	4
9.216 Mbps	6
12.280 Mbps	8

Alternatively, Frame Relay speeds between DS1 and DS3 can be achieved through the provisioning of a DS3 that is bandwidth-constrained at the fast packet switch. This Subrate T3 MSFRS connection is available in 3 Mbps, 6 Mbps, 9 Mbps, 12 Mbps, 15 Mbps, 18 Mbps, 21 Mbps, 24 Mbps, 27 Mbps, 30 Mbps and 33 Mbps speeds."

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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)21.4.1 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 1.536 Mbps and 44.210 Mbps. Automatic Back-Up is available at transmission speeds of 1.536 Mbps and 44.210 Mbps. 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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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.4.1 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.

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

21.4.2 Service Description

(1) Installation of Service

Nonrecurring charges apply to each MSFRS Connection installed.

Nonrecurring charges for MSFRS Connections are set forth in Section 21.4.10(A).

(T)

(2) Installation of Optional Features

Nonrecurring charges apply to the installation of Optional Features as set forth in Section 21.4.10(B).

(T)

(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 Section 5.6(E). 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 Sections 21.4.2(4) and 21.4.10(D).

(T)

(T)

(D)

- (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.

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21.4 Managed Shared Frame Relay Service (MSFRS)

21.4.2 Service Description

(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 Section 21.4.10(D) will apply. Charges are applied on a Billing Account Number (BAN). (T)

(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.

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

21.4.2 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 Sections 21.4.2(6)(c) and (d). 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 Telephone Company's calculation of its performance through the CNM-NVS system shall be the sole determinate of the Telephone Company's obligation to provide a credit for a missed performance commitment. (T)
- (c) SLA credits for missed commitments do not apply when any commitment is not met because the Telephone Company does not have control over the circumstances causing the commitment to be missed. Situations over which the Telephone Company does not have control can be defined as, but not limited to the following: (T)
 - 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 Telephone 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 Telephone Company's control, (T)

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

21.4.2 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 Section 21.4.2(5) and 2) customer requests for rearrangements which resulted in that service being unavailable as set forth in Sections 21.4.2(3)(a) and (b). 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. (T) (D)

(e) Service Level Commitments

SLA commitments for the specific aspects of the Frame Relay network's performance set forth in Section 21.4.2(6)(a) 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: (T)

(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 Section 21.1.2(5)) and in association with situations over which the Telephone Company does not have control (as set forth in Section 21.4.2(6)(c)) are counted as "available" time. (T) (T) (T)

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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)21.4.2 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 21.4.2(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.

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

21.4.2 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 21.4.2(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 21.4.2(6)(f)(3) will then be issued on this Frame Relay PVC.

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

21.4.2 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 Section 21.4.2(6).

(T)

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 Credit¹:

- 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 Credit¹:

- 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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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.4.2 Service Description (Cont'd)

(6) Service Level Agreements (Cont'd)

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

(3) Frame Delivery Rate SLA Credit¹:

- 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
>256-384 Kbps CIR		25.20
>384-512 Kbps CIR		28.80
>512-768 Kbps CIR		32.40
>768 Kbps-1.536 Mbps CIR		41.25
>1.536-4 Mbps CIR		130.00
>4-10 Mbps CIR		325.00
>10-16 Mbps CIR		525.00
>16-34 Mbps CIR		1100.00
>34-44.210 Mbps CIR		1500.00

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

21.4.3 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 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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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.4.4 Interface Specifications

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

Digital packet (UNI)
Digital packet (NNI)

21.4.5 Acceptance Testing

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

21.4.6 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.).

21.4.7 Minimum Period of Service

The minimum period is one month.

21.4.8 Rate Conditions

Rates and charges are specified in Section 21.4.10 for MSFRS. Unless (T)
specified otherwise, MSFRS is available for use with the Fast Packet Savings
Plan subject to the conditions provided in Section 2.4.8.(F). (T)

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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21.4.8 Rate Conditions (cont'd)

21.4.9 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 Section 21.4.10(F) 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. (T)

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

21.4.9 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).

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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)21.4.9 Rate Categories (Cont'd)(B) 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 21.4.10(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.

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

21.4.9 Rate Categories (Cont'd)

(B) 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 Section 21.4.9.(B)(7). Configurable DLCIs are considered as additional DLCIs. (T)

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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)21.4.9 Rate Categories (Cont'd)(B) 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 DLCI¹ 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. 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 Segment²:</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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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)21.4.9 Rate Categories (Cont'd)(B) 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 21.4.9(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 21.4.10(B)(4) and are applied per end of link.¹ 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 21.4.10(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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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.4.9 Rate Categories (Cont'd)

(B) 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 Section 21.4.9(B)(1)).

(T)

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 Guidebook 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.

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

21.4.9 Rate Categories (Cont'd)

(B) 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 Section 21.4.10(B)) 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. (T)

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.

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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)21.4.9 Rates Categories (Cont'd)(B) 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.

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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)21.4.9 Rates Categories (Cont'd)(B) 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 256 Kbps, 320 Kbps, 384 Kbps, 448 Kbps, 512 Kbps, 576 Kbps, 640 Kbps, 704 Kbps, 768 Kbps, 1024 Kbps, 1152 Kbps, 1.536 Mbps, 3 Mbps, 6 Mbps, 9 Mbps, 12 Mbps, 15 Mbps, 18 Mbps, 21 Mbps, 24 Mbps, 27 Mbps, 30 Mbps, 33 Mbps and 44.210 Mbps 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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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)21.4.9 Rates Categories (Cont'd)(B) Optional Features (Cont'd)(7) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability⁽¹⁾ (C)

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.

⁽¹⁾ 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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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)21.4.9 Rates Categories (Cont'd)(B) Optional Features (Cont'd)(7) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability⁽¹⁾ (Cont'd)

(C)

- (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.

⁽¹⁾ See footnote (1) on Sheet 120.

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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)21.4.9 Rates Categories (Cont'd)(B) Optional Features (Cont'd)(7) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability⁽¹⁾ (Cont'd) (C)

- (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.

⁽¹⁾ See footnote (1) on Sheet 120.

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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)21.4.9 Rates Categories (Cont'd)(B) Optional Features (Cont'd)(7) BellSouth Customer Network Management (CNM) - Customer Configuration Management Capability⁽¹⁾ (Cont'd)

(C)

- (l) 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.

⁽¹⁾ See footnote (1) on Sheet 120.

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

21.4.9 Rate Categories (Cont'd)

(B) Optional Features (Cont'd)

(8) Regional InterLATA PVC Extension

The Regional InterLATA PVC Extension is an Optional Feature that enables customers to extend a PVC between MSFRS Connections in two different LATAs.

The customer must request a Regional InterLATA PVC Extension between two LATAs within BellSouth's operating territory. Each Regional InterLATA PVC Extension has an associated CIR that must match the CIR of the DLCIs associated with each end of the PVC. Each end of the PVC is at a customer premises.

The appropriate rates and charges for the Regional InterLATA PVC Extension are set forth in Section 21.4.10(B)(9) and are applied per end of extension. Both a nonrecurring charge and monthly rate apply for each end of the extension. The Regional InterLATA PVC Extension charges are in addition to the associated DLCI and CIR charges. (T)

A customer request to add a Regional InterLATA PVC Extension to an existing PVC arrangement shall be considered a disconnect of the existing PVC rate elements and a new connect of the new service elements (e.g., DLCI, CIR, Regional InterLATA PVC Extension, etc.); nonrecurring charges shall apply.

Regional InterLATA PVC Extensions are technically not compatible with certain types of MSFRS Connections or certain types of MSATMS PVCs; these technical limitations are set forth in TR-73587.

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

21.4.9 Rate Categories (Cont'd)

(C) 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.

(D) Transfer of Service

When a change to the customer of record is requested, transfer of service charges, as set forth in Section 21.4.10(D) will apply. (T)
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.

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

21.4.9 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			

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(1) UNI (Cont'd)

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
256 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UD	\$ 345.00	\$ 314.00	\$ 278.00	\$ 925.00
- MSFRS Extended Connection ¹	MS9ED	505.00	442.00	383.00	1,045.00
- MSFRS Extended Connection ²	MS9ED	625.00	536.00	440.00	1,045.00
- MSFRS Extended Connection ³	MS9ED	725.00	614.00	495.00	1,045.00
- MSFRS Extended Connection ⁴	MS9ED	845.00	706.00	559.00	1,045.00
- MSFRS Extended Connection ⁵	MS9ED	945.00	783.00	612.00	1,045.00
- MSFRS Extended Connection ⁶	MS9ED	1045.00	859.00	686.00	1,045.00
320 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UE	\$ 390.00	\$ 355.00	\$ 314.00	\$ 925.00
- MSFRS Extended Connection ¹	MS9EE	550.00	482.00	417.00	1,045.00
- MSFRS Extended Connection ²	MS9EE	670.00	575.00	472.00	1,045.00
- MSFRS Extended Connection ³	MS9EE	770.00	652.00	526.00	1,045.00
- MSFRS Extended Connection ⁴	MS9EE	890.00	744.00	589.00	1,045.00
- MSFRS Extended Connection ⁵	MS9EE	990.00	820.00	642.00	1,045.00
- MSFRS Extended Connection ⁶	MS9EE	1,090.00	896.00	715.00	1,045.00
384 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UF	\$ 390.00	\$ 355.00	\$ 314.00	\$ 990.00
- MSFRS Extended Connection ¹	MS9EF	550.00	482.00	417.00	1,110.00
- MSFRS Extended Connection ²	MS9EF	670.00	575.00	472.00	1,110.00
- MSFRS Extended Connection ³	MS9EF	770.00	652.00	526.00	1,110.00
- MSFRS Extended Connection ⁴	MS9EF	890.00	744.00	589.00	1,110.00
- MSFRS Extended Connection ⁵	MS9EF	990.00	820.00	642.00	1,110.00
- MSFRS Extended Connection ⁶	MS9EF	1,090.00	896.00	715.00	1,110.00

- 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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21.4 Managed Shared Frame Relay Service (MSFRS) (Cont'd)

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(1) UNI (Cont'd)

		Month to	A 12 to 24	B 25 to 48	Nonrecurrin g Charges
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	
448 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UG	\$ 395.00	\$ 360.00	\$ 318.00	\$ 990.00
- MSFRS Extended Connection ¹	MS9EG	555.00	486.00	421.00	1,110.00
- MSFRS Extended Connection ²	MS9EG	675.00	579.00	475.00	1,110.00
- MSFRS Extended Connection ³	MS9EG	775.00	656.00	529.00	1,110.00
- MSFRS Extended Connection ⁴	MS9EG	895.00	748.00	592.00	1,110.00
- MSFRS Extended Connection ⁵	MS9EG	995.00	824.00	645.00	1,110.00
- MSFRS Extended Connection ⁶	MS9EG	1,095.00	900.00	718.00	1,110.00
512 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UH	\$ 395.00	\$ 360.00	\$ 318.00	\$ 990.00
- MSFRS Extended Connection ¹	MS9EH	555.00	486.00	421.00	1,110.00
- MSFRS Extended Connection ²	MS9EH	675.00	579.00	475.00	1,110.00
- MSFRS Extended Connection ³	MS9EH	775.00	656.00	529.00	1,110.00
- MSFRS Extended Connection ⁴	MS9EH	895.00	748.00	592.00	1,110.00
- MSFRS Extended Connection ⁵	MS9EH	995.00	824.00	645.00	1,110.00
- MSFRS Extended Connection ⁶	MS9EH	1,095.00	900.00	718.00	1,110.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 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>
576 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UJ	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
.Vintage Rate*	MS9UJ		365.00	322.00	
- MSFRS Extended Connection ¹	MS9EJ	689.00	603.00	523.00	1,110.00
.Vintage Rate*	MS9EJ		490.00	425.00	
- MSFRS Extended Connection ²	MS9EJ	803.00	689.00	565.00	1,110.00
.Vintage Rate*	MS9EJ		583.00	479.00	
- MSFRS Extended Connection ³	MS9EJ	898.00	760.00	613.00	1,110.00
.Vintage Rate*	MS9EJ		660.00	532.00	
- MSFRS Extended Connection ⁴	MS9EJ	1,012.00	846.00	670.00	1,110.00
.Vintage Rate*	MS9EJ		752.00	596.00	
- MSFRS Extended Connection ⁵	MS9EJ	1,107.00	917.00	717.00	1,110.00
.Vintage Rate*	MS9EJ		828.00	648.00	
- MSFRS Extended Connection ⁶	MS9EJ	1,202.00	988.00	789.00	1,110.00
.Vintage Rate*	MS9EJ		904.00	722.00	
640 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UK	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
.Vintage Rate*	MS9UK		365.00	322.00	
- MSFRS Extended Connection ¹	MS9EK	689.00	603.00	523.00	1,110.00
.Vintage Rate*	MS9EK		490.00	425.00	
- MSFRS Extended Connection ²	MS9EK	803.00	689.00	565.00	1,110.00
.Vintage Rate*	MS9EK		583.00	479.00	
- MSFRS Extended Connection ³	MS9EK	898.00	760.00	613.00	1,110.00
.Vintage Rate*	MS9EK		660.00	532.00	
- MSFRS Extended Connection ⁴	MS9EK	1,012.00	846.00	670.00	1,110.00
.Vintage Rate*	MS9EK		752.00	596.00	
- MSFRS Extended Connection ⁵	MS9EK	1,107.00	917.00	717.00	1,110.00
.Vintage Rate*	MS9EK		828.00	648.00	
- MSFRS Extended Connection ⁶	MS9EK	1,202.00	988.00	789.00	1,110.00
.Vintage Rate*	MS9EK		904.00	722.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(1) UNI (Cont'd)

		Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
704 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UL	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
.Vintage Rate*	MS9UL		369.00	326.00	
- MSFRS Extended Connection ¹	MS9EL	689.00	603.00	523.00	1,110.00
.Vintage Rate*	MS9EL		495.00	429.00	
- MSFRS Extended Connection ²	MS9EL	803.00	689.00	565.00	1,110.00
.Vintage Rate*	MS9EL		588.00	482.00	
- MSFRS Extended Connection ³	MS9EL	898.00	760.00	613.00	1,110.00
.Vintage Rate*	MS9EL		665.00	536.00	
- MSFRS Extended Connection ⁴	MS9EL	1,012.00	846.00	670.00	1,110.00
.Vintage Rate*	MS9EL		756.00	599.00	
- MSFRS Extended Connection ⁵	MS9EL	1,107.00	917.00	717.00	1,110.00
.Vintage Rate*	MS9EL		832.00	651.00	
- MSFRS Extended Connection ⁶	MS9EL	1,202.00	988.00	789.00	1,110.00
.Vintage Rate*	MS9EL		908.00	725.00	
768 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UM	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
.Vintage Rate*	MS9UM		369.00	326.00	
- MSFRS Extended Connection ¹	MS9EM	689.00	603.00	523.00	1,110.00
.Vintage Rate*	MS9EM		495.00	429.00	
- MSFRS Extended Connection ²	MS9EM	803.00	689.00	565.00	1,110.00
.Vintage Rate*	MS9EM		588.00	482.00	
- MSFRS Extended Connection ³	MS9EM	898.00	760.00	613.00	1,110.00
.Vintage Rate*	MS9EM		665.00	536.00	
- MSFRS Extended Connection ⁴	MS9EM	1,012.00	846.00	670.00	1,110.00
.Vintage Rate*	MS9EM		756.00	599.00	
- MSFRS Extended Connection ⁵	MS9EM	1,107.00	917.00	717.00	1,110.00
.Vintage Rate*	MS9EM		832.00	651.00	
- MSFRS Extended Connection ⁶	MS9EM	1,202.00	988.00	789.00	1,110.00
.Vintage Rate*	MS9EM		908.00	725.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(1) UNI (Cont'd)

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
1024 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UN	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
.Vintage Rate*	MS9UN		373.00	329.00	
- MSFRS Extended Connection ¹	MS9EN	689.00	603.00	523.00	1,110.00
.Vintage Rate*	MS9EN		498.00	432.00	
- MSFRS Extended Connection ²	MS9EN	803.00	689.00	565.00	1,110.00
.Vintage Rate*	MS9EN		591.00	485.00	
- MSFRS Extended Connection ³	MS9EN	898.00	760.00	613.00	1,110.00
.Vintage Rate*	MS9EN		668.00	539.00	
- MSFRS Extended Connection ⁴	MS9EN	1,012.00	846.00	670.00	1,110.00
.Vintage Rate*	MS9EN		760.00	602.00	
- MSFRS Extended Connection ⁵	MS9EN	1,107.00	917.00	717.00	1,110.00
.Vintage Rate*	MS9EN		836.00	654.00	
- MSFRS Extended Connection ⁶	MS9EN	1,202.00	988.00	789.00	1,110.00
.Vintage Rate*	MS9EN		912.00	728.00	
1152 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9UO	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
.Vintage Rate*	MS9UO		373.00	329.00	
- MSFRS Extended Connection ¹	MS9EO	689.00	603.00	523.00	1,110.00
.Vintage Rate*	MS9EO		498.00	432.00	
- MSFRS Extended Connection ²	MS9EO	803.00	689.00	565.00	1,110.00
.Vintage Rate*	MS9EO		591.00	485.00	
- MSFRS Extended Connection ³	MS9EO	898.00	760.00	613.00	1,110.00
.Vintage Rate*	MS9EO		668.00	539.00	
- MSFRS Extended Connection ⁴	MS9EO	1,012.00	846.00	670.00	1,110.00
.Vintage Rate*	MS9EO		760.00	602.00	
- MSFRS Extended Connection ⁵	MS9EO	1,107.00	917.00	717.00	1,110.00
.Vintage Rate*	MS9EO		836.00	654.00	
- MSFRS Extended Connection ⁶	MS9EO	1,202.00	988.00	789.00	1,110.00
.Vintage Rate*	MS9EO		912.00	728.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(1) UNI (Cont'd)

	<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>
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Connection	MS9TU	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
- MSFRS Extended Connection ¹	1L5WE	689.00	603.00	523.00	1100.00
- MSFRS Extended Connection ²	1L5WE	803.00	689.00	565.00	1100.00
- MSFRS Extended Connection ³	1L5WE	898.00	760.00	613.00	1100.00
- MSFRS Extended Connection ⁴	1L5WE	1012.00	846.00	670.00	1100.00
- MSFRS Extended Connection ⁵	1L5WE	1107.00	917.00	717.00	1100.00
- MSFRS Extended Connection ⁶	1L5WE	1202.00	988.00	789.00	1100.00
3 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9UP	\$1736.00	\$1610.00	\$1432.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9EP	2944.00	2758.00	2517.00	2575.00
- MSFRS Extended Connection ²	MS9EP	3556.00	3346.00	3077.00	2575.00
- MSFRS Extended Connection ³	MS9EP	4053.00	3815.00	3528.00	2575.00
- MSFRS Extended Connection ⁴	MS9EP	4554.00	4288.00	3976.00	2575.00
- MSFRS Extended Connection ⁵	MS9EP	4813.00	4536.00	4211.00	2575.00
- MSFRS Extended Connection ⁶	MS9EP	4956.00	4680.00	4354.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(1) UNI (Cont'd)

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurrin g Charges
6 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9UQ	\$1789.00	\$1652.00	\$1502.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9EQ	2996.00	2800.00	2587.00	2575.00
- MSFRS Extended Connection ²	MS9EQ	3609.00	3388.00	3147.00	2575.00
- MSFRS Extended Connection ³	MS9EQ	4106.00	3857.00	3598.00	2575.00
- MSFRS Extended Connection ⁴	MS9EQ	4606.00	4330.00	4046.00	2575.00
- MSFRS Extended Connection ⁵	MS9EQ	4865.00	4578.00	4281.00	2575.00
- MSFRS Extended Connection ⁶	MS9EQ	5009.00	4722.00	4424.00	2575.00
9 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9UR	\$1929.00	\$1779.00	\$1614.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9ER	3136.00	2927.00	2699.00	2575.00
- MSFRS Extended Connection ²	MS9ER	3749.00	3515.00	3259.00	2575.00
- MSFRS Extended Connection ³	MS9ER	4246.00	3984.00	3710.00	2575.00
- MSFRS Extended Connection ⁴	MS9ER	4746.00	4457.00	4158.00	2575.00
- MSFRS Extended Connection ⁵	MS9ER	5005.00	4705.00	4393.00	2575.00
- MSFRS Extended Connection ⁶	MS9ER	5149.00	4849.00	4536.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(1) UNI (Cont'd)

	<u>USOC</u>	Month to <u>Month</u>	A 12 to 24 <u>Months</u>	B 25 to 48 <u>Months</u>	Nonrecurring <u>Charges</u>
12 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9US	\$2069.00	\$1907.00	\$1726.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9ES	3276.00	3055.00	2811.00	2575.00
- MSFRS Extended Connection ²	MS9ES	3889.00	3643.00	3371.00	2575.00
- MSFRS Extended Connection ³	MS9ES	4386.00	4112.00	3822.00	2575.00
- MSFRS Extended Connection ⁴	MS9ES	4886.00	4584.00	4270.00	2575.00
- MSFRS Extended Connection ⁵	MS9ES	5145.00	4833.00	4505.00	2575.00
- MSFRS Extended Connection ⁶	MS9ES	5289.00	4976.00	4648.00	2575.00
15 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9UT	\$2209.00	\$2034.00	\$1838.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9ET	3416.00	3182.00	2923.00	2575.00
- MSFRS Extended Connection ²	MS9ET	4029.00	3770.00	3483.00	2575.00
- MSFRS Extended Connection ³	MS9ET	4526.00	4239.00	3934.00	2575.00
- MSFRS Extended Connection ⁴	MS9ET	5026.00	4712.00	4382.00	2575.00
- MSFRS Extended Connection ⁵	MS9ET	5285.00	4960.00	4617.00	2575.00
- MSFRS Extended Connection ⁶	MS9ET	5429.00	5104.00	4760.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(1) UNI (Cont'd)

	<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>
18 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9UU	\$2349.00	\$2162.00	\$1950.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9EU	3556.00	3310.00	3035.00	2575.00
- MSFRS Extended Connection ²	MS9EU	4169.00	3898.00	3595.00	2575.00
- MSFRS Extended Connection ³	MS9EU	4666.00	4367.00	4046.00	2575.00
- MSFRS Extended Connection ⁴	MS9EU	5166.00	4839.00	4494.00	2575.00
- MSFRS Extended Connection ⁵	MS9EU	5425.00	5088.00	4729.00	2575.00
- MSFRS Extended Connection ⁶	MS9EU	5569.00	5231.00	4872.00	2575.00
21 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9UV	\$2489.00	\$2289.00	\$2062.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9EV	3696.00	3437.00	3147.00	2575.00
- MSFRS Extended Connection ²	MS9EV	4309.00	4025.00	3707.00	2575.00
- MSFRS Extended Connection ³	MS9EV	4806.00	4494.00	4159.00	2575.00
- MSFRS Extended Connection ⁴	MS9EV	5306.00	4967.00	4607.00	2575.00
- MSFRS Extended Connection ⁵	MS9EV	5565.00	5215.00	4841.00	2575.00
- MSFRS Extended Connection ⁶	MS9EV	5709.00	5359.00	4985.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(1) UNI (Cont'd)

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
24 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9UW	\$2629.00	\$2416.00	\$2174.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9EW	3836.00	3564.00	3259.00	2575.00
- MSFRS Extended Connection ²	MS9EW	4449.00	4152.00	3819.00	2575.00
- MSFRS Extended Connection ³	MS9EW	4946.00	4621.00	4271.00	2575.00
- MSFRS Extended Connection ⁴	MS9EW	5446.00	5094.00	4719.00	2575.00
- MSFRS Extended Connection ⁵	MS9EW	5705.00	5342.00	4953.00	2575.00
- MSFRS Extended Connection ⁶	MS9EW	5849.00	5486.00	5097.00	2575.00
27 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9UX	\$2769.00	\$2544.00	\$2286.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9EX	3976.00	3692.00	3371.00	2575.00
- MSFRS Extended Connection ²	MS9EX	4589.00	4280.00	3931.00	2575.00
- MSFRS Extended Connection ³	MS9EX	5086.00	4749.00	4383.00	2575.00
- MSFRS Extended Connection ⁴	MS9EX	5586.00	5221.00	4831.00	2575.00
- MSFRS Extended Connection ⁵	MS9EX	5845.00	5470.00	5065.00	2575.00
- MSFRS Extended Connection ⁶	MS9EX	5989.00	5613.00	5209.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(1) UNI (Cont'd)

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
30 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9UY	\$2909.00	\$2671.00	\$2398.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9EY	4116.00	3819.00	3483.00	2575.00
- MSFRS Extended Connection ²	MS9EY	4729.00	4407.00	4043.00	2575.00
- MSFRS Extended Connection ³	MS9EY	5226.00	4876.00	4495.00	2575.00
- MSFRS Extended Connection ⁴	MS9EY	5726.00	5349.00	4943.00	2575.00
- MSFRS Extended Connection ⁵	MS9EY	5985.00	5597.00	5177.00	2575.00
- MSFRS Extended Connection ⁶	MS9EY	6129.00	5741.00	5321.00	2575.00
33 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9UZ	\$3049.00	\$2799.00	\$2510.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9EZ	4256.00	3947.00	3595.00	2575.00
- MSFRS Extended Connection ²	MS9EZ	4869.00	4535.00	4155.00	2575.00
- MSFRS Extended Connection ³	MS9EZ	5366.00	5004.00	4607.00	2575.00
- MSFRS Extended Connection ⁴	MS9EZ	5866.00	5476.00	5055.00	2575.00
- MSFRS Extended Connection ⁵	MS9EZ	6125.00	5725.00	5289.00	2575.00
- MSFRS Extended Connection ⁶	MS9EZ	6269.00	5868.00	5433.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(1) UNI (Cont'd)

	<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>
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9TU	\$3500.00	\$3255.00	\$3010.00	\$ 2225.00
- MSFRS Extended Connection ¹	1L5WE	4708.00	4403.00	4095.00	2575.00
- MSFRS Extended Connection ²	1L5WE	5320.00	4991.00	4655.00	2575.00
- MSFRS Extended Connection ³	1L5WE	5817.00	5460.00	5107.00	2575.00
- MSFRS Extended Connection ⁴	1L5WE	6318.00	5933.00	5555.00	2575.00
- MSFRS Extended Connection ⁵	1L5WE	6577.00	6181.00	5789.00	2575.00
- MSFRS Extended Connection ⁶	1L5WE	6720.00	6325.00	5933.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(1) UNI (Cont'd)

		Month to	A 12 to 24	B 25 to 48	Nonrecurring
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
MultiLink 3.072 Mbps (BCOS: MS9XT)					
- MSFRS Connection	MS9UP	\$ 777.00	\$ 694.00	\$ 610.00	\$ 1255.00
- MSFRS Extended Connection ¹	MS9EP	1001.00	862.00	743.00	1495.00
- MSFRS Extended Connection ²	MS9EP	1169.00	988.00	806.00	1495.00
- MSFRS Extended Connection ³	MS9EP	1309.00	1093.00	876.00	1495.00
- MSFRS Extended Connection ⁴	MS9EP	1477.00	1219.00	960.00	1495.00
- MSFRS Extended Connection ⁵	MS9EP	1617.00	1324.00	1030.00	1495.00
- MSFRS Extended Connection ⁶	MS9EP	1757.00	1429.00	1135.00	1495.00
MultiLink 6.144 Mbps (BCOS: MS9XT)					
- MSFRS Connection	MS9UQ	\$1274.00	\$1179.00	\$1081.00	\$ 2185.00
- MSFRS Extended Connection ¹	MS9EQ	1722.00	1515.00	1347.00	2665.00
- MSFRS Extended Connection ²	MS9EQ	2058.00	1767.00	1473.00	2665.00
- MSFRS Extended Connection ³	MS9EQ	2338.00	1977.00	1613.00	2665.00
- MSFRS Extended Connection ⁴	MS9EQ	2674.00	2229.00	1781.00	2665.00
- MSFRS Extended Connection ⁵	MS9EQ	2954.00	2439.00	1921.00	2665.00
- MSFRS Extended Connection ⁶	MS9EQ	3234.00	2649.00	2131.00	2665.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(1) UNI (Cont'd)

		Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
MultiLink 9.216 Mbps (BCOS: MS9XT)					
- MSFRS Connection	MS9UR	\$1981.00	\$1663.00	\$1551.00	\$ 3115.00
- MSFRS Extended Connection ¹	MS9ER	2653.00	2167.00	1950.00	3835.00
- MSFRS Extended Connection ²	MS9ER	3157.00	2545.00	2139.00	3835.00
- MSFRS Extended Connection ³	MS9ER	3577.00	2860.00	2349.00	3835.00
- MSFRS Extended Connection ⁴	MS9ER	4081.00	3238.00	2601.00	3835.00
- MSFRS Extended Connection ⁵	MS9ER	4501.00	3553.00	2811.00	3835.00
- MSFRS Extended Connection ⁶	MS9ER	4921.00	3868.00	3126.00	3835.00
MultiLink 12.280 Mbps (BCOS: MS9XT)					
- MSFRS Connection	MS9US	\$2618.00	\$2218.00	\$2022.00	\$ 4045.00
- MSFRS Extended Connection ¹	MS9ES	3514.00	2890.00	2554.00	5005.00
- MSFRS Extended Connection ²	MS9ES	4186.00	3394.00	2806.00	5005.00
- MSFRS Extended Connection ³	MS9ES	4746.00	3814.00	3086.00	5005.00
- MSFRS Extended Connection ⁴	MS9ES	5418.00	4318.00	3422.00	5005.00
- MSFRS Extended Connection ⁵	MS9ES	5978.00	4738.00	3702.00	5005.00
- MSFRS Extended Connection ⁶	MS9ES	6538.00	5158.00	4122.00	5005.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(2) NNI (Cont'd)

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
256 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9ND	\$ 345.00	\$ 314.00	\$ 278.00	\$ 925.00
- MSFRS Extended Connection ¹	MS9OD	505.00	442.00	383.00	1,045.00
- MSFRS Extended Connection ²	MS9OD	625.00	536.00	440.00	1,045.00
- MSFRS Extended Connection ³	MS9OD	725.00	614.00	495.00	1,045.00
- MSFRS Extended Connection ⁴	MS9OD	845.00	706.00	559.00	1,045.00
- MSFRS Extended Connection ⁵	MS9OD	945.00	783.00	612.00	1,045.00
- MSFRS Extended Connection ⁶	MS9OD	1045.00	859.00	686.00	1,045.00
320 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9NE	\$ 390.00	\$ 355.00	\$ 314.00	\$ 925.00
- MSFRS Extended Connection ¹	MS90E	550.00	482.00	417.00	1,045.00
- MSFRS Extended Connection ²	MS90E	670.00	575.00	472.00	1,045.00
- MSFRS Extended Connection ³	MS90E	770.00	652.00	526.00	1,045.00
- MSFRS Extended Connection ⁴	MS90E	890.00	744.00	589.00	1,045.00
- MSFRS Extended Connection ⁵	MS90E	990.00	820.00	642.00	1,045.00
- MSFRS Extended Connection ⁶	MS90E	1,090.00	896.00	715.00	1,045.00
384 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9NF	\$ 390.00	\$ 355.00	\$ 314.00	\$ 990.00
- MSFRS Extended Connection ¹	MS90F	550.00	482.00	417.00	1,110.00
- MSFRS Extended Connection ²	MS90F	670.00	575.00	472.00	1,110.00
- MSFRS Extended Connection ³	MS90F	770.00	652.00	526.00	1,110.00
- MSFRS Extended Connection ⁴	MS90F	890.00	744.00	589.00	1,110.00
- MSFRS Extended Connection ⁵	MS90F	990.00	820.00	642.00	1,110.00
- MSFRS Extended Connection ⁶	MS90F	1,090.00	896.00	715.00	1,110.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 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>
448 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9NG	\$ 395.00	\$ 360.00	\$ 318.00	\$ 990.00
- MSFRS Extended Connection ¹	MS9OG	555.00	486.00	421.00	1,110.00
- MSFRS Extended Connection ²	MS9OG	675.00	579.00	475.00	1,110.00
- MSFRS Extended Connection ³	MS9OG	775.00	656.00	529.00	1,110.00
- MSFRS Extended Connection ⁴	MS9OG	895.00	748.00	592.00	1,110.00
- MSFRS Extended Connection ⁵	MS9OG	995.00	824.00	645.00	1,110.00
- MSFRS Extended Connection ⁶	MS9OG	1095.00	900.00	718.00	1,110.00
512 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9NH	\$ 395.00	\$ 360.00	\$ 318.00	\$ 990.00
- MSFRS Extended Connection ¹	MS9OH	555.00	486.00	421.00	1,110.00
- MSFRS Extended Connection ²	MS9OH	675.00	579.00	475.00	1,110.00
- MSFRS Extended Connection ³	MS9OH	775.00	656.00	529.00	1,110.00
- MSFRS Extended Connection ⁴	MS9OH	895.00	748.00	592.00	1,110.00
- MSFRS Extended Connection ⁵	MS9OH	995.00	824.00	645.00	1,110.00
- MSFRS Extended Connection ⁶	MS9OH	1095.00	900.00	718.00	1,110.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(2) NNI (Cont'd)

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
576 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9NJ	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
.Vintage Rate*	MS9NJ		365.00	322.00	
- MSFRS Extended Connection ¹	MS9OJ	689.00	603.00	523.00	1,110.00
.Vintage Rate*	MS9OJ		490.00	425.00	
- MSFRS Extended Connection ²	MS9OJ	803.00	689.00	565.00	1,110.00
.Vintage Rate*	MS9OJ		583.00	479.00	
- MSFRS Extended Connection ³	MS9OJ	898.00	760.00	613.00	1,110.00
.Vintage Rate*	MS9OJ		660.00	532.00	
- MSFRS Extended Connection ⁴	MS9OJ	1,012.00	846.00	670.00	1,110.00
.Vintage Rate*	MS9OJ		752.00	596.00	
- MSFRS Extended Connection ⁵	MS9OJ	1,107.00	917.00	717.00	1,110.00
.Vintage Rate*	MS9OJ		828.00	648.00	
- MSFRS Extended Connection ⁶	MS9OJ	1,202.00	988.00	789.00	1,110.00
.Vintage Rate*	MS9OJ		904.00	722.00	
640 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9NK	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
.Vintage Rate*	MS9NK		365.00	322.00	
- MSFRS Extended Connection ¹	MS9OK	689.00	603.00	523.00	1,110.00
.Vintage Rate*	MS9OK		490.00	425.00	
- MSFRS Extended Connection ²	MS9OK	803.00	689.00	565.00	1,110.00
.Vintage Rate*	MS9OK		583.00	479.00	
- MSFRS Extended Connection ³	MS9OK	898.00	760.00	613.00	1,110.00
.Vintage Rate*	MS9OK		660.00	532.00	
- MSFRS Extended Connection ⁴	MS9OK	1,012.00	846.00	670.00	1,110.00
.Vintage Rate*	MS9OK		752.00	596.00	
- MSFRS Extended Connection ⁵	MS9OK	1,107.00	917.00	717.00	1,110.00
.Vintage Rate*	MS9OK		828.00	648.00	
- MSFRS Extended Connection ⁶	MS9OK	1,202.00	988.00	789.00	1,110.00
.Vintage Rate*	MS9OK		904.00	722.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 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>
704 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9NL	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
.Vintage Rate*	MS9NL		369.00	326.00	
- MSFRS Extended Connection ¹	MS9OL	689.00	603.00	523.00	1,110.00
.Vintage Rate*	MS9OL		495.00	429.00	
- MSFRS Extended Connection ²	MS9OL	803.00	689.00	565.00	1,110.00
.Vintage Rate*	MS9OL		588.00	482.00	
- MSFRS Extended Connection ³	MS9OL	898.00	760.00	613.00	1,110.00
.Vintage Rate*	MS9OL		665.00	536.00	
- MSFRS Extended Connection ⁴	MS9OL	1,012.00	846.00	670.00	1,110.00
.Vintage Rate*	MS9OL		756.00	599.00	
- MSFRS Extended Connection ⁵	MS9OL	1,107.00	917.00	717.00	1,110.00
.Vintage Rate*	MS9OL		832.00	651.00	
- MSFRS Extended Connection ⁶	MS9OL	1,202.00	988.00	789.00	1,110.00
.Vintage Rate*	MS9OL		908.00	725.00	
768 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9NM	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
.Vintage Rate*	MS9NM		369.00	326.00	
- MSFRS Extended Connection ¹	MS9OM	689.00	603.00	523.00	1,110.00
.Vintage Rate*	MS9OM		495.00	429.00	
- MSFRS Extended Connection ²	MS9OM	803.00	689.00	565.00	1,110.00
.Vintage Rate*	MS9OM		588.00	482.00	
- MSFRS Extended Connection ³	MS9OM	898.00	760.00	613.00	1,110.00
.Vintage Rate*	MS9OM		665.00	536.00	
- MSFRS Extended Connection ⁴	MS9OM	1,012.00	846.00	670.00	1,110.00
.Vintage Rate*	MS9OM		756.00	599.00	
- MSFRS Extended Connection ⁵	MS9OM	1,107.00	917.00	717.00	1,110.00
.Vintage Rate*	MS9OM		832.00	651.00	
- MSFRS Extended Connection ⁶	MS9OM	1,202.00	988.00	789.00	1,110.00
.Vintage Rate*	MS9OM		908.00	725.00	

* Plan A and Plan B rate in effect prior to September 23, 2004

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(2) NNI (Cont'd)

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
1024 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9NN	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
.Vintage Rate*	MS9NN		373.00	329.00	
- MSFRS Extended Connection ¹	MS9ON	689.00	603.00	523.00	1,110.00
.Vintage Rate*	MS9ON		498.00	432.00	
- MSFRS Extended Connection ²	MS9ON	803.00	689.00	565.00	1,110.00
.Vintage Rate*	MS9ON		591.00	485.00	
- MSFRS Extended Connection ³	MS9ON	898.00	760.00	613.00	1,110.00
.Vintage Rate*	MS9ON		668.00	539.00	
- MSFRS Extended Connection ⁴	MS9ON	1,012.00	846.00	670.00	1,110.00
.Vintage Rate*	MS9ON		760.00	602.00	
- MSFRS Extended Connection ⁵	MS9ON	1,107.00	917.00	717.00	1,110.00
.Vintage Rate*	MS9ON		836.00	654.00	
- MSFRS Extended Connection ⁶	MS9ON	1,202.00	988.00	789.00	1,110.00
.Vintage Rate*	MS9ON		912.00	728.00	
1152 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9NO	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
.Vintage Rate*	MS9NO		373.00	329.00	
- MSFRS Extended Connection ¹	MS9OO	689.00	603.00	523.00	1,110.00
.Vintage Rate*	MS9OO		498.00	432.00	
- MSFRS Extended Connection ²	MS9OO	803.00	689.00	565.00	1,110.00
.Vintage Rate*	MS9OO		591.00	485.00	
- MSFRS Extended Connection ³	MS9OO	898.00	760.00	613.00	1,110.00
.Vintage Rate*	MS9OO		668.00	539.00	
- MSFRS Extended Connection ⁴	MS9OO	1,012.00	846.00	670.00	1,110.00
.Vintage Rate*	MS9OO		760.00	602.00	
- MSFRS Extended Connection ⁵	MS9OO	1,107.00	917.00	717.00	1,110.00
.Vintage Rate*	MS9OO		836.00	654.00	
- MSFRS Extended Connection ⁶	MS9OO	1,202.00	988.00	789.00	1,110.00
.Vintage Rate*	MS9OO		912.00	728.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Connection	MS9TN	\$ 537.00	\$ 489.00	\$ 432.00	\$ 990.00
- MSFRS Extended Connection ¹	1L5RE	689.00	603.00	523.00	1100.00
- MSFRS Extended Connection ²	1L5RE	803.00	689.00	565.00	1100.00
- MSFRS Extended Connection ³	1L5RE	898.00	760.00	613.00	1100.00
- MSFRS Extended Connection ⁴	1L5RE	1012.00	846.00	670.00	1100.00
- MSFRS Extended Connection ⁵	1L5RE	1107.00	917.00	717.00	1100.00
- MSFRS Extended Connection ⁶	1L5RE	1202.00	988.00	789.00	1100.00
3 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9NP	\$1736.00	\$1610.00	\$1432.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9OP	2944.00	2758.00	2517.00	2575.00
- MSFRS Extended Connection ²	MS9OP	3556.00	3346.00	3077.00	2575.00
- MSFRS Extended Connection ³	MS9OP	4053.00	3815.00	3528.00	2575.00
- MSFRS Extended Connection ⁴	MS9OP	4554.00	4288.00	3976.00	2575.00
- MSFRS Extended Connection ⁵	MS9OP	4813.00	4536.00	4211.00	2575.00
- MSFRS Extended Connection ⁶	MS9OP	4956.00	4680.00	4354.00	2575.00

- 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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21 - Fast Packet Access Services

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

21.4.10 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>
6 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9NQ	\$1789.00	\$1652.00	\$1502.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9OQ	2996.00	2800.00	2587.00	2575.00
- MSFRS Extended Connection ²	MS9OQ	3609.00	3388.00	3147.00	2575.00
- MSFRS Extended Connection ³	MS9OQ	4106.00	3857.00	3598.00	2575.00
- MSFRS Extended Connection ⁴	MS9OQ	4606.00	4330.00	4046.00	2575.00
- MSFRS Extended Connection ⁵	MS9OQ	4865.00	4578.00	4281.00	2575.00
- MSFRS Extended Connection ⁶	MS9OQ	5009.00	4722.00	4424.00	2575.00
9 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9NR	\$1929.00	\$1779.00	\$1614.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9OR	3136.00	2927.00	2699.00	2575.00
- MSFRS Extended Connection ²	MS9OR	3749.00	3515.00	3259.00	2575.00
- MSFRS Extended Connection ³	MS9OR	4246.00	3984.00	3710.00	2575.00
- MSFRS Extended Connection ⁴	MS9OR	4746.00	4457.00	4158.00	2575.00
- MSFRS Extended Connection ⁵	MS9OR	5005.00	4705.00	4393.00	2575.00
- MSFRS Extended Connection ⁶	MS9OR	5149.00	4849.00	4536.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(2) NNI (Cont'd)

	<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>
12 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9NS	\$2069.00	\$1907.00	\$1726.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9OS	3276.00	3055.00	2811.00	2575.00
- MSFRS Extended Connection ²	MS9OS	3889.00	3643.00	3371.00	2575.00
- MSFRS Extended Connection ³	MS9OS	4386.00	4112.00	3822.00	2575.00
- MSFRS Extended Connection ⁴	MS9OS	4886.00	4584.00	4270.00	2575.00
- MSFRS Extended Connection ⁵	MS9OS	5145.00	4833.00	4505.00	2575.00
- MSFRS Extended Connection ⁶	MS9OS	5289.00	4976.00	4648.00	2575.00
15 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9NT	\$2209.00	\$2034.00	\$1838.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9OT	3416.00	3182.00	2923.00	2575.00
- MSFRS Extended Connection ²	MS9OT	4029.00	3770.00	3483.00	2575.00
- MSFRS Extended Connection ³	MS9OT	4526.00	4239.00	3934.00	2575.00
- MSFRS Extended Connection ⁴	MS9OT	5026.00	4712.00	4382.00	2575.00
- MSFRS Extended Connection ⁵	MS9OT	5285.00	4960.00	4617.00	2575.00
- MSFRS Extended Connection ⁶	MS9OT	5429.00	5104.00	4760.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

	<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>
18 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9NU	\$2349.00	\$2162.00	\$1950.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9OU	3556.00	3310.00	3035.00	2575.00
- MSFRS Extended Connection ²	MS9OU	4169.00	3898.00	3595.00	2575.00
- MSFRS Extended Connection ³	MS9OU	4666.00	4367.00	4046.00	2575.00
- MSFRS Extended Connection ⁴	MS9OU	5166.00	4839.00	4494.00	2575.00
- MSFRS Extended Connection ⁵	MS9OU	5425.00	5088.00	4729.00	2575.00
- MSFRS Extended Connection ⁶	MS9OU	5569.00	5231.00	4872.00	2575.00
21 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9NV	\$2489.00	\$2289.00	\$2062.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9OV	3696.00	3437.00	3147.00	2575.00
- MSFRS Extended Connection ²	MS9OV	4309.00	4025.00	3707.00	2575.00
- MSFRS Extended Connection ³	MS9OV	4806.00	4494.00	4159.00	2575.00
- MSFRS Extended Connection ⁴	MS9OV	5306.00	4967.00	4607.00	2575.00
- MSFRS Extended Connection ⁵	MS9OV	5565.00	5215.00	4841.00	2575.00
- MSFRS Extended Connection ⁶	MS9OV	5709.00	5359.00	4985.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurrin g Charges
24 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9NW	\$2629.00	\$2416.00	\$2174.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9OW	3836.00	3564.00	3259.00	2575.00
- MSFRS Extended Connection ²	MS9OW	4449.00	4152.00	3819.00	2575.00
- MSFRS Extended Connection ³	MS9OW	4946.00	4621.00	4271.00	2575.00
- MSFRS Extended Connection ⁴	MS9OW	5446.00	5094.00	4719.00	2575.00
- MSFRS Extended Connection ⁵	MS9OW	5705.00	5342.00	4953.00	2575.00
- MSFRS Extended Connection ⁶	MS9OW	5849.00	5486.00	5097.00	2575.00
27 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9NX	\$2769.00	\$2544.00	\$2286.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9OX	3976.00	3692.00	3371.00	2575.00
- MSFRS Extended Connection ²	MS9OX	4589.00	4280.00	3931.00	2575.00
- MSFRS Extended Connection ³	MS9OX	5086.00	4749.00	4383.00	2575.00
- MSFRS Extended Connection ⁴	MS9OX	5586.00	5221.00	4831.00	2575.00
- MSFRS Extended Connection ⁵	MS9OX	5845.00	5470.00	5065.00	2575.00
- MSFRS Extended Connection ⁶	MS9OX	5989.00	5613.00	5209.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 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>
30 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9NY	\$2909.00	\$2671.00	\$2398.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9OY	4116.00	3819.00 (R)	3483.00	2575.00
- MSFRS Extended Connection ²	MS9OY	4729.00	4407.00	4043.00	2575.00
- MSFRS Extended Connection ³	MS9OY	5226.00	4876.00	4495.00	2575.00
- MSFRS Extended Connection ⁴	MS9OY	5726.00	5349.00	4943.00	2575.00
- MSFRS Extended Connection ⁵	MS9OY	5985.00	5597.00	5177.00	2575.00
- MSFRS Extended Connection ⁶	MS9OY	6129.00	5741.00	5321.00	2575.00
33 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9NZ	\$3049.00	\$2799.00	\$2510.00	\$ 2225.00
- MSFRS Extended Connection ¹	MS9OZ	4256.00	3947.00	3595.00	2575.00
- MSFRS Extended Connection ²	MS9OZ	4869.00	4535.00	4155.00	2575.00
- MSFRS Extended Connection ³	MS9OZ	5366.00	5004.00	4607.00	2575.00
- MSFRS Extended Connection ⁴	MS9OZ	5866.00	5476.00	5055.00	2575.00
- MSFRS Extended Connection ⁵	MS9OZ	6125.00	5725.00	5289.00	2575.00
- MSFRS Extended Connection ⁶	MS9OZ	6269.00	5868.00	5433.00	2575.00

- Note 1: Customer Premises SWC is over 0 to 20 miles outside Service Area.
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- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

	<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>
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9TN	\$3500.00	\$3255.00	\$3010.00	\$ 2,225.00
- MSFRS Extended Connection ¹	1L5RE	4708.00	4403.00	4095.00	2,575.00
- MSFRS Extended Connection ²	1L5RE	5320.00	4991.00	4655.00	2,575.00
- MSFRS Extended Connection ³	1L5RE	5817.00	5460.00	5107.00	2,575.00
- MSFRS Extended Connection ⁴	1L5RE	6318.00	5933.00	5555.00	2,575.00
- MSFRS Extended Connection ⁵	1L5RE	6577.00	6181.00	5789.00	2,575.00
- MSFRS Extended Connection ⁶	1L5RE	6720.00	6325.00	5933.00	2,575.00

- Note 1: Customer Premises SWC is over 0 to 20 miles outside Service Area.
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- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

		Month	A	B	
		to	12 to 24	25 to 48	Nonrecurring
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
MultiLink 3.072 Mbps					
(BCOS: MS9XT)					
- MSFRS Connection	MS9NP	\$ 777.00	\$ 694.00	\$ 610.00	\$ 1255.00
- MSFRS Extended Connection ¹	MS9OP	1001.00	862.00	743.00	1495.00
- MSFRS Extended Connection ²	MS9OP	1169.00	988.00	806.00	1495.00
- MSFRS Extended Connection ³	MS9OP	1309.00	1093.00	876.00	1495.00
- MSFRS Extended Connection ⁴	MS9OP	1477.00	1219.00	960.00	1495.00
- MSFRS Extended Connection ⁵	MS9OP	1617.00	1324.00	1030.00	1495.00
- MSFRS Extended Connection ⁶	MS9OP	1757.00	1429.00	1135.00	1495.00
MultiLink 6.144 Mbps					
(BCOS: MS9XT)					
- MSFRS Connection	MS9NQ	\$1274.00	\$1179.00	\$1081.00	\$ 2185.00
- MSFRS Extended Connection ¹	MS9OQ	1722.00	1515.00	1347.00	2665.00
- MSFRS Extended Connection ²	MS9OQ	2058.00	1767.00	1473.00	2665.00
- MSFRS Extended Connection ³	MS9OQ	2338.00	1977.00	1613.00	2665.00
- MSFRS Extended Connection ⁴	MS9OQ	2674.00	2229.00	1781.00	2665.00
- MSFRS Extended Connection ⁵	MS9OQ	2954.00	2439.00	1921.00	2665.00
- MSFRS Extended Connection ⁶	MS9OQ	3234.00	2649.00	2131.00	2665.00

- Note 1: Customer Premises SWC is over 0 to 20 miles outside Service Area.
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- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

	<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>
MultiLink 9.216 Mbps (BCOS: MS9XT)					
- MSFRS Connection	MS9NR	\$1981.00	\$1663.00	\$1551.00	\$ 3115.00
- MSFRS Extended Connection ¹	MS9OR	2653.00	2167.00	1950.00	3835.00
- MSFRS Extended Connection ²	MS9OR	3157.00	2545.00	2139.00	3835.00
- MSFRS Extended Connection ³	MS9OR	3577.00	2860.00	2349.00	3835.00
- MSFRS Extended Connection ⁴	MS9OR	4081.00	3238.00	2601.00	3835.00
- MSFRS Extended Connection ⁵	MS9OR	4501.00	3553.00	2811.00	3835.00
- MSFRS Extended Connection ⁶	MS9OR	4921.00	3868.00	3126.00	3835.00
MultiLink 12.280 Mbps (BCOS: MS9XT)					
- MSFRS Connection	MS9NS	\$2618.00	\$2218.00	\$2022.00	\$ 4045.00
- MSFRS Extended Connection ¹	MS9OS	3514.00	2890.00	2554.00	5005.00
- MSFRS Extended Connection ²	MS9OS	4186.00	3394.00	2806.00	5005.00
- MSFRS Extended Connection ³	MS9OS	4746.00	3814.00	3086.00	5005.00
- MSFRS Extended Connection ⁴	MS9OS	5418.00	4318.00	3422.00	5005.00
- MSFRS Extended Connection ⁵	MS9OS	5978.00	4738.00	3702.00	5005.00
- MSFRS Extended Connection ⁶	MS9OS	6538.00	5158.00	4122.00	5005.00

Note 1: Customer Premises SWC is over 0 to 20 miles outside Service Area.
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ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 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>
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Connection	MS9BU	\$ 429.00	\$ 391.00	\$ 346.00	\$ 990.00
- MSFRS Extended Connection ¹	MS9BV	551.00	483.00	418.00	1100.00
- MSFRS Extended Connection ²	MS9BV	642.00	551.00	452.00	1100.00
- MSFRS Extended Connection ³	MS9BV	718.00	608.00	490.00	1100.00
- MSFRS Extended Connection ⁴	MS9BV	809.00	676.00	536.00	1100.00
- MSFRS Extended Connection ⁵	MS9BV	885.00	732.00	574.00	1100.00
- MSFRS Extended Connection ⁶	MS9BV	961.00	789.00	630.00	1100.00
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9BU	\$2800.00	\$2604.00	\$2408.00	\$2225.00
- MSFRS Extended Connection ¹	MS9BV	3766.00	3522.00	3276.00	2575.00
- MSFRS Extended Connection ²	MS9BV	4256.00	3993.00	3724.00	2575.00
- MSFRS Extended Connection ³	MS9BV	4654.00	4368.00	4085.00	2575.00
- MSFRS Extended Connection ⁴	MS9BV	5054.00	4746.00	4444.00	2575.00
- MSFRS Extended Connection ⁵	MS9BV	5261.00	4945.00	4631.00	2575.00
- MSFRS Extended Connection ⁶	MS9BV	5376.00	5060.00	4746.00	2575.00

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

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(3) 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>
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Connection	MS9BW	\$ 429.00	\$ 391.00	\$ 346.00	\$ 990.00
- MSFRS Extended Connection ¹	MS9BX	551.00	483.00	418.00	1100.00
- MSFRS Extended Connection ²	MS9BX	642.00	551.00	452.00	1100.00
- MSFRS Extended Connection ³	MS9BX	718.00	608.00	490.00	1100.00
- MSFRS Extended Connection ⁴	MS9BX	809.00	676.00	536.00	1100.00
- MSFRS Extended Connection ⁵	MS9BX	885.00	732.00	574.00	1100.00
- MSFRS Extended Connection ⁶	MS9BX	961.00	789.00	630.00	1100.00
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9BW	\$2800.00	\$2604.00	\$2408.00	\$2225.00
- MSFRS Extended Connection ¹	MS9BX	3766.00	3522.00	3276.00	2575.00
- MSFRS Extended Connection ²	MS9BX	4256.00	3993.00	3724.00	2575.00
- MSFRS Extended Connection ³	MS9BX	4654.00	4368.00	4085.00	2575.00
- MSFRS Extended Connection ⁴	MS9BX	5054.00	4746.00	4444.00	2575.00
- MSFRS Extended Connection ⁵	MS9BX	5261.00	4945.00	4631.00	2575.00
- MSFRS Extended Connection ⁶	MS9BX	5376.00	5060.00	4746.00	2575.00

- 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 6: Customer Premises SWC is over 125 miles outside Service Area.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(4) Manual Back-Up NNI

	USOC	Month to Month	Plan A 12 to 24 Months	Plan B 25 to 48 Months	Nonrecurring Charges
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Connection	MS9BM	\$ 429.00	\$ 391.00	\$ 346.00	\$ 990.00
- MSFRS Extended Connection ¹	MS9BN	551.00	483.00	418.00	1100.00
- MSFRS Extended Connection ²	MS9BN	642.00	551.00	452.00	1100.00
- MSFRS Extended Connection ³	MS9BN	718.00	608.00	490.00	1100.00
- MSFRS Extended Connection ⁴	MS9BN	809.00	676.00	536.00	1100.00
- MSFRS Extended Connection ⁵	MS9BN	885.00	732.00	574.00	1100.00
- MSFRS Extended Connection ⁶	MS9BN	961.00	789.00	630.00	1100.00
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9BM	\$2800.00	\$2604.00	\$2408.00	\$2225.00
- MSFRS Extended Connection ¹	MS9BN	3766.00	3522.00	3276.00	2575.00
- MSFRS Extended Connection ²	MS9BN	4256.00	3993.00	3724.00	2575.00
- MSFRS Extended Connection ³	MS9BN	4654.00	4368.00	4085.00	2575.00
- MSFRS Extended Connection ⁴	MS9BN	5054.00	4746.00	4444.00	2575.00
- MSFRS Extended Connection ⁵	MS9BN	5261.00	4945.00	4631.00	2575.00
- MSFRS Extended Connection ⁶	MS9BN	5376.00	5060.00	4746.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(A) MSFRS Connections (Cont'd)

(4) 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>
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Connection	MS9BO	\$ 429.00	\$ 391.00	\$ 346.00	\$ 990.00
- MSFRS Extended Connection ¹	MS9BP	551.00	483.00	418.00	1100.00
- MSFRS Extended Connection ²	MS9BP	642.00	551.00	452.00	1100.00
- MSFRS Extended Connection ³	MS9BP	718.00	608.00	490.00	1100.00
- MSFRS Extended Connection ⁴	MS9BP	809.00	676.00	536.00	1100.00
- MSFRS Extended Connection ⁵	MS9BP	885.00	732.00	574.00	1100.00
- MSFRS Extended Connection ⁶	MS9BP	961.00	789.00	630.00	1100.00
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9BO	\$2800.00	\$2604.00	\$2408.00	\$2225.00
- MSFRS Extended Connection ¹	MS9BP	3766.00	3522.00	3276.00	2575.00
- MSFRS Extended Connection ²	MS9BP	4256.00	3993.00	3724.00	2575.00
- MSFRS Extended Connection ³	MS9BP	4654.00	4368.00	4085.00	2575.00
- MSFRS Extended Connection ⁴	MS9BP	5054.00	4746.00	4444.00	2575.00
- MSFRS Extended Connection ⁵	MS9BP	5261.00	4945.00	4631.00	2575.00
- MSFRS Extended Connection ⁶	MS9BP	5376.00	5060.00	4746.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(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>
256 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9MD	\$ 475.00	\$ 416.00	\$ 360.00	\$ 770.00
- MSFRS Meetpoint Extended Connection ²	MS9MD	595.00	511.00	419.00	770.00
- MSFRS Meetpoint Extended Connection ³	MS9MD	695.00	588.00	474.00	770.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MD	815.00	681.00	540.00	770.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MD	915.00	758.00	593.00	770.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MD	1015.00	834.00	666.00	770.00
320 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9ME	\$ 520.00	\$ 455.00	\$ 394.00	\$ 770.00
- MSFRS Meetpoint Extended Connection ²	MS9ME	640.00	549.00)	451.00	770.00
- MSFRS Meetpoint Extended Connection ³	MS9ME	740.00	626.00	505.00	770.00
- MSFRS Meetpoint Extended Connection ⁴	MS9ME	860.00	719.00	569.00	770.00
- MSFRS Meetpoint Extended Connection ⁵	MS9ME	960.00	795.00	622.00	770.00
- MSFRS Meetpoint Extended Connection ⁶	MS9ME	1060.00	871.00	695.00	770.00
384 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9MF	\$ 520.00	\$ 455.00	\$ 394.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ²	MS9MF	640.00	549.00	451.00	835.00
- MSFRS Meetpoint Extended Connection ³	MS9MF	740.00	626.00	505.00	835.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MF	860.00	716.00	569.00	835.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MF	960.00	795.00	622.00	835.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MF	1060.00	871.00	695.00	835.00

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

		Month to	A 12 to 24	B 25 to 48	Nonrecurring
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
448 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9MG	\$ 525.00	\$ 460.00	\$ 398.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ²	MS9MG	645.00	553.00	454.00	835.00
- MSFRS Meetpoint Extended Connection ³	MS9MG	745.00	631.00	508.00	835.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MG	865.00	723.00	573.00	835.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MG	965.00	799.00	625.00	835.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MG	1065.00	876.00	699.00	835.00
512 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9MH	\$ 525.00	\$ 460.00	\$ 398.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ²	MS9MH	645.00	553.00	454.00	835.00
- MSFRS Meetpoint Extended Connection ³	MS9MH	745.00	631.00	508.00	835.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MH	865.00	723.00	573.00	835.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MH	965.00	799.00	625.00	835.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MH	1065.00	876.00	699.00	835.00

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.

ACCESS SERVICE

21 - Fast Packet Access Services

21.4 Managed Shared Frame Relay Service (MSFRS)

21.4.10 Rates and Charges

(B) MSFRS Meetpoint Extended Connections

(1) UNI

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
576 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹ .Vintage Rate*	MS9MJ	\$660.00	\$ 579.00	\$ 501.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ² .Vintage Rate*	MS9MJ	774.00	664.00	545.00	835.00
- MSFRS Meetpoint Extended Connection ³ .Vintage Rate*	MS9MJ	869.00	736.00	594.00	835.00
- MSFRS Meetpoint Extended Connection ⁴ .Vintage Rate*	MS9MJ	983.00	822.00	651.00	835.00
- MSFRS Meetpoint Extended Connection ⁵ .Vintage Rate*	MS9MJ	1078.00	893.00	699.00	835.00
- MSFRS Meetpoint Extended Connection ⁶ .Vintage Rate*	MS9MJ	1173.00	964.00	770.00	835.00

* Plan A and Plan B rate in effect prior to September 23, 2004.

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
640 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹ .Vintage Rate*	MS9MK	\$ 660.00	\$ 579.00	\$ 501.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ² .Vintage Rate*	MS9MK	774.00	664.00	545.00	835.00
- MSFRS Meetpoint Extended Connection ³ .Vintage Rate*	MS9MK	869.00	736.00	594.00	835.00
- MSFRS Meetpoint Extended Connection ⁴ .Vintage Rate*	MS9MK	983.00	822.00	651.00	835.00
- MSFRS Meetpoint Extended Connection ⁵ .Vintage Rate*	MS9MK	1078.00	893.00	699.00	835.00
- MSFRS Meetpoint Extended Connection ⁶ .Vintage Rate*	MS9MK	1173.00	964.00	770.00	835.00

* Plan A and Plan B rate in effect prior to September 23, 2004.

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
704 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9ML	\$ 660.00	\$ 579.00	\$ 501.00	\$ 835.00
.Vintage Rate*	MS9ML		469.00	406.00	
- MSFRS Meetpoint Extended Connection ²	MS9ML	774.00	664.00	545.00	835.00
.Vintage Rate*	MS9ML		562.00	461.00	
- MSFRS Meetpoint Extended Connection ³	MS9ML	869.00	736.00	594.00	835.00
.Vintage Rate*	MS9ML		639.00	515.00	
- MSFRS Meetpoint Extended Connection ⁴	MS9ML	983.00	822.00	651.00	835.00
.Vintage Rate*	MS9ML		731.00	579.00	
- MSFRS Meetpoint Extended Connection ⁵	MS9ML	1078.00	893.00	699.00	835.00
.Vintage Rate*	MS9ML		808.00	632.00	
- MSFRS Meetpoint Extended Connection ⁶	MS9ML	1173.00	964.00	770.00	835.00
.Vintage Rate*	MS9ML		884.00	705.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
768 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹ .Vintage Rate*	MS9MM	\$ 660.00	\$ 579.00	\$ 501.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ² .Vintage Rate*	MS9MM	774.00	664.00	545.00	835.00
- MSFRS Meetpoint Extended Connection ³ .Vintage Rate*	MS9MM	869.00	736.00	594.00	835.00
- MSFRS Meetpoint Extended Connection ⁴ .Vintage Rate*	MS9MM	983.00	822.00	651.00	835.00
- MSFRS Meetpoint Extended Connection ⁵ .Vintage Rate*	MS9MM	1078.00	893.00	699.00	835.00
- MSFRS Meetpoint Extended Connection ⁶ .Vintage Rate*	MS9MM	1173.00	964.00	770.00	835.00

* Plan A and Plan B rate in effect prior to September 23, 2004.

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

		Month to	A 12 to 24	B 25 to 48	Nonrecurring
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
1024 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9MN	\$660.00	\$ 579.00	\$ 501.00	\$ 835.00
.Vintage Rate*	MS9MN		472.00	409.00	
- MSFRS Meetpoint Extended Connection ²	MS9MN	774.00	664.00	545.00	835.00
.Vintage Rate*	MS9MN		565.00	464.00	
- MSFRS Meetpoint Extended Connection ³	MS9MN	869.00	736.00	594.00	835.00
.Vintage Rate*	MS9MN		643.00	518.00	
- MSFRS Meetpoint Extended Connection ⁴	MS9MN	983.00	822.00	651.00	835.00
.Vintage Rate*	MS9MN		735.00	582.00	
- MSFRS Meetpoint Extended Connection ⁵	MS9MN	1078.00	893.00	699.00	835.00
.Vintage Rate*	MS9MN		811.00	634.00	
- MSFRS Meetpoint Extended Connection ⁶	MS9MN	1173.00	964.00	770.00	835.00
.Vintage Rate*	MS9MN		887.00	708.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

	<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>
1152 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹ .Vintage Rate*	MS9MO	\$660.00	\$ 579.00	\$ 501.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ² .Vintage Rate*	MS9MO	774.00	664.00	545.00	835.00
- MSFRS Meetpoint Extended Connection ³ .Vintage Rate*	MS9MO	869.00	736.00	594.00	835.00
- MSFRS Meetpoint Extended Connection ⁴ .Vintage Rate*	MS9MO	983.00	822.00	651.00	835.00
- MSFRS Meetpoint Extended Connection ⁵ .Vintage Rate*	MS9MO	1078.00	893.00	699.00	835.00
- MSFRS Meetpoint Extended Connection ⁶ .Vintage Rate*	MS9MO	1173.00	964.00	770.00	835.00
			887.00	708.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

		Month to <u>Month</u>	A 12 to 24 <u>Months</u>	B 25 to 48 <u>Months</u>	Nonrecurring <u>Charges</u>
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	1L5RU	\$ 660.00	\$ 579.00	\$ 501.00	\$ 825.00
- MSFRS Meetpoint Extended Connection ²	1L5RU	774.00	664.00	545.00	825.00
- MSFRS Meetpoint Extended Connection ³	1L5RU	869.00	736.00	594.00	825.00
- MSFRS Meetpoint Extended Connection ⁴	1L5RU	983.00	822.00	651.00	825.00
- MSFRS Meetpoint Extended Connection ⁵	1L5RU	1078.00	893.00	699.00	825.00
- MSFRS Meetpoint Extended Connection ⁶	1L5RU	1173.00	964.00	770.00	825.00
3 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9MP	\$2608.00	\$2443.00	\$2230.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9MP	3220.00	3030.00	2786.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9MP	3717.00	3499.00	3235.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MP	4218.00	3971.00	3683.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MP	4477.00	4220.00	3917.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MP	4620.00	4362.00	4059.00	\$ 1860.00

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

		Month to	A 12 to 24	B 25 to 48	Nonrecurring
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
6 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9MQ	\$2660.00	\$2486.00	\$2297.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9MQ	3273.00	3072.00	2853.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9MQ	3770.00	3541.00	3303.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MQ	4270.00	4014.00	3751.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MQ	4529.00	4262.00	3985.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MQ	4673.00	4405.00	4127.00	\$ 1860.00
9 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9MR	\$2800.00	\$2614.00	\$2409.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9MR	3413.00	3200.00	2967.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9MR	3910.00	3669.00	3417.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MR	4410.00	4141.00	3863.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MR	4669.00	4390.00	4098.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MR	4813.00	4533.00	4240.00	\$ 1860.00

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

		Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
12 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9MS	\$2940.00	\$2741.00	\$2522.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9MS	3553.00	3328.00	3079.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9MS	4050.00	3797.00	3529.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MS	4550.00	4269.00	3977.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MS	4809.00	4517.00	4211.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MS	4953.00	4660.00	4353.00	\$ 1860.00
15 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9MT	\$3080.00	\$2869.00	\$2635.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9MT	3693.00	3456.00	3192.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9MT	4190.00	3924.00	3642.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MT	4690.00	4397.00	4089.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MT	4949.00	4645.00	4323.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MT	5093.00	4788.00	4465.00	\$ 1860.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

		Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
18 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9MU	\$3220.00	\$2997.00	\$2748.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9MU	3833.00	3583.00	3305.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9MU	4330.00	4052.00	3755.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MU	4830.00	4524.00	4201.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MU	5089.00	4773.00	4436.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MU	5303.00	4915.00	4578.00	\$ 1860.00
21 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9MV	\$3360.00	\$3125.00	\$2861.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9MV	3973.00	3711.00	3418.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9MV	4470.00	4180.00	3868.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MV	4970.00	4652.00	4315.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MV	5229.00	4900.00	4549.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MV	5373.00	5043.00	4691.00	\$ 1860.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
24 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9MW	\$3500.00	\$3252.00	\$2974.00	\$1860.00
- MSFRS Meetpoint Extended Connection ²	MS9MW	4112.00	3839.00	3531.00	\$1860.00
- MSFRS Meetpoint Extended Connection ³	MS9MW	4610.00	4307.00	3980.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MW	5110.00	4780.00	4428.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MW	5369.00	5028.00	4661.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MW	5513.00	5171.00	4804.00	\$1860.00
27 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9MX	\$3640.00	\$3380.00	\$3086.00	\$1860.00
- MSFRS Meetpoint Extended Connection ²	MS9MX	4253.00	3966.00	3644.00	\$1860.00
- MSFRS Meetpoint Extended Connection ³	MS9MX	4750.00	4435.00	4093.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MX	5250.00	4907.00	4540.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MX	5509.00	5156.00	4774.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MX	5653.00	5298.00	4917.00	\$1860.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

		Month to	A 12 to 24	B 25 to 48	Nonrecurring
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
30 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9MY	\$3780.00	\$3508.00	\$3199.00	\$1860.00
- MSFRS Meetpoint Extended Connection ²	MS9MY	4393.00	4094.00	3756.00	\$1860.00
- MSFRS Meetpoint Extended Connection ³	MS9MY	4890.00	4563.00	4206.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MY	5390.00	5035.00	4653.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MY	5649.00	5283.00	4887.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MY	5793.00	5426.00	5029.00	\$1860.00
33 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9MZ	\$3920.00	\$3635.00	\$3312.00	\$1860.00
- MSFRS Meetpoint Extended Connection ²	MS9MZ	4533.00	4222.00	3868.00	\$1860.00
- MSFRS Meetpoint Extended Connection ³	MS9MZ	5030.00	4690.00	4318.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MZ	5530.00	5163.00	4765.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MZ	5789.00	5410.00	4999.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MZ	5933.00	5554.00	5142.00	\$1860.00

- 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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- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

		Month to	A 12 to 24	B 25 to 48	Nonrecurring
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	1L5RU	\$4372.00	\$4089.00	\$3802.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	1L5RU	4984.00	4676.00	4361.00	1860.00
- MSFRS Meetpoint Extended Connection ³	1L5RU	5481.00	5144.00	4812.00	1860.00
- MSFRS Meetpoint Extended Connection ⁴	1L5RU	5982.00	5617.00	5259.00)	1860.00
- MSFRS Meetpoint Extended Connection ⁵	1L5RU	6241.00	5865.00	5493.00	1860.00
- MSFRS Meetpoint Extended Connection ⁶	1L5RU	6384.00	6008.00	5636.00	1860.00

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

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

		Month to <u>Month</u>	A 12 to 24 <u>Months</u>	B 25 to 48 <u>Months</u>	Nonrecurring <u>Charges</u>
MultiLink 3.072 Mbps (BCOS: MS9XT)					
- MSFRS Meetpoint Extended Connection ¹	MS9MP	\$ 665.00	\$ 573.00	\$ 494.00	\$1220.00
- MSFRS Meetpoint Extended Connection ²	MS9MP	833.00	704.00	575.00	1220.00
- MSFRS Meetpoint Extended Connection ³	MS9MP	973.00	813.00	652.00	1220.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MP	1141.00	942.00	742.00	1220.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MP	1281.00	1049.00	816.00	1220.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MP	1421.00	1156.00	921.00	1220.00
MultiLink 6.144 Mbps (BCOS: MS9XT)					
- MSFRS Meetpoint Extended Connection ¹	MS9MQ	\$1386.00	\$1219.00	\$1084.00	\$1840.00
- MSFRS Meetpoint Extended Connection ²	MS9MQ	1722.00	1478.00	1232.00	1840.00
- MSFRS Meetpoint Extended Connection ³	MS9MQ	2002.00	1693.00	1381.00	1840.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MQ	2338.00	1949.00	1557.00	1840.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MQ	2618.00	2162.00	1702.00	1840.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MQ	2898.00	2374.00	1910.00	1840.00

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

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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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(1) UNI

		Month to <u>Month</u>	A 12 to 24 <u>Months</u>	B 25 to 48 <u>Months</u>	Nonrecurring <u>Charges</u>
MultiLink 9.216 Mbps (BCOS: MS9XT)					
- MSFRS Meetpoint Extended Connection ¹	MS9MR	\$2317.00	\$1893.00	\$1703.00	\$2185.00
- MSFRS Meetpoint Extended Connection ²	MS9MR	2821.00	2274.00	1912.00	2185.00
- MSFRS Meetpoint Extended Connection ³	MS9MR	3241.00	2591.00	2129.00	2185.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MR	3745.00	2972.00	2387.00	2185.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MR	4165.00	3288.00	2601.00	2185.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MR	4585.00	3604.00	2913.00	2185.00
MultiLink 12.280 Mbps (BCOS: MS9XT)					
- MSFRS Meetpoint Extended Connection ¹	MS9MS	\$3178.00	\$2613.00	\$2309.00	\$2805.00
- MSFRS Meetpoint Extended Connection ²	MS9MS	3850.00	3121.00	2580.00	2805.00
- MSFRS Meetpoint Extended Connection ³	MS9MS	4410.00	3543.00	2867.00	2805.00
- MSFRS Meetpoint Extended Connection ⁴	MS9MS	5082.00	4050.00	3210.00	2805.00
- MSFRS Meetpoint Extended Connection ⁵	MS9MS	5642.00	4472.00	3494.00	2805.00
- MSFRS Meetpoint Extended Connection ⁶	MS9MS	6202.00	4892.00	3910.00	2805.00

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

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

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

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(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>
256 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9PD	\$ 475.00	\$ 416.00	\$ 360.00	\$ 770.00
- MSFRS Meetpoint Extended Connection ²	MS9PD	595.00	511.00	419.00	770.00
- MSFRS Meetpoint Extended Connection ³	MS9PD	695.00	588.00	474.00	770.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PD	815.00	681.00	540.00	770.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PD	915.00	758.00	593.00	770.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PD	1015.00	834.00	666.00	770.00
256 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9PD	\$ 475.00	\$ 416.00	\$ 360.00	\$ 770.00
320 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9PE	\$ 520.00	\$455.00	\$394.00	\$ 770.00
- MSFRS Meetpoint Extended Connection ²	MS9PE	640.00	549.00	451.00	770.00
- MSFRS Meetpoint Extended Connection ³	MS9PE	740.00	626.00	505.00	770.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PE	860.00	719.00	569.00	770.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PE	960.00	795.00	622.00	770.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PE	1060.00	871.00	695.00	770.00
384 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9PF	\$ 520.00	\$455.00	\$394.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ²	MS9PF	640.00	549.00	451.00	835.00
- MSFRS Meetpoint Extended Connection ³	MS9PF	740.00	626.00	505.00	835.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PF	860.00	719.00	569.00	835.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PF	960.00	795.00	622.00	835.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PF	1060.00	871.00	695.00	835.00

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

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

		Month to	A 12 to 24	B 25 to 48	Nonrecurring
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
448 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9PG	\$ 525.00	\$ 460.00	\$ 398.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ²	MS9PG	645.00	553.00	454.00	835.00
- MSFRS Meetpoint Extended Connection ³	MS9PG	745.00	631.00	508.00	835.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PG	865.00	723.00	573.00	835.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PG	965.00	799.00	625.00	835.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PG	1065.00	876.00	699.00	835.00
512 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9PH	\$ 525.00	\$ 460.00	\$ 398.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ²	MS9PH	645.00	553.00	454.00	835.00
- MSFRS Meetpoint Extended Connection ³	MS9PH	745.00	631.00	508.00	835.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PH	865.00	723.00	573.00	835.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PH	965.00	799.00	625.00	835.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PH	1065.00	876.00	699.00	835.00

- Note 1: Meetpoint is over 0 to 20 miles outside Service Area.
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- Note 6: Meetpoint is over 125 miles outside Service Area.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
576 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9PJ	\$660.00	\$ 579.00	\$ 501.00	\$ 835.00
.Vintage Rate*	MS9PJ		464.00	402.00	
- MSFRS Meetpoint Extended Connection ²	MS9PJ	774.00	664.00	545.00	835.00
.Vintage Rate*	MS9PJ		558.00	458.00	
- MSFRS Meetpoint Extended Connection ³	MS9PJ	869.00	736.00	594.00	835.00
.Vintage Rate*	MS9PJ		635.00	512.00	
- MSFRS Meetpoint Extended Connection ⁴	MS9PJ	983.00	822.00	651.00	835.00
.Vintage Rate*	MS9PJ		727.00	576.00	
- MSFRS Meetpoint Extended Connection ⁵	MS9PJ	1078.00	893.00	699.00	835.00
.Vintage Rate*	MS9PJ		803.00	629.00	
- MSFRS Meetpoint Extended Connection ⁶	MS9PJ	1173.00	964.00	770.00	835.00
.Vintage Rate*	MS9PJ		880.00	702.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

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

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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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
640 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹ .Vintage Rate*	MS9PK	\$660.00	\$ 579.00	\$ 501.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ² .Vintage Rate*	MS9PK	774.00	664.00	545.00	835.00
- MSFRS Meetpoint Extended Connection ³ .Vintage Rate*	MS9PK	869.00	736.00	594.00	835.00
- MSFRS Meetpoint Extended Connection ⁴ .Vintage Rate*	MS9PK	983.00	822.00	651.00	835.00
- MSFRS Meetpoint Extended Connection ⁵ .Vintage Rate*	MS9PK	1078.00	893.00	699.00	835.00
- MSFRS Meetpoint Extended Connection ⁶ .Vintage Rate*	MS9PK	1173.00	964.00	770.00	835.00

* Plan A and Plan B rate in effect prior to September 23, 2004.

- 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

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
704 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹ .Vintage Rate*	MS9PL	\$ 660.00	\$ 579.00	\$ 501.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ² .Vintage Rate*	MS9PL	774.00	664.00	545.00	835.00
- MSFRS Meetpoint Extended Connection ³ .Vintage Rate*	MS9PL	869.00	736.00	594.00	835.00
- MSFRS Meetpoint Extended Connection ⁴ .Vintage Rate*	MS9PL	983.00	822.00	651.00	835.00
- MSFRS Meetpoint Extended Connection ⁵ .Vintage Rate*	MS9PL	1078.00	893.00	699.00	835.00
- MSFRS Meetpoint Extended Connection ⁶ .Vintage Rate*	MS9PL	1173.00	964.00	770.00	835.00

* Plan A and Plan B rate in effect prior to September 23, 2004.

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

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
768 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹ .Vintage Rate*	MS9PM	\$ 660.00	\$ 579.00	\$ 501.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ² .Vintage Rate*	MS9PM	774.00	664.00	545.00	835.00
- MSFRS Meetpoint Extended Connection ³ .Vintage Rate*	MS9PM	869.00	736.00	594.00	835.00
- MSFRS Meetpoint Extended Connection ⁴ .Vintage Rate*	MS9PM	983.00	822.00	651.00	835.00
- MSFRS Meetpoint Extended Connection ⁵ .Vintage Rate*	MS9PM	1078.00	893.00	699.00	835.00
- MSFRS Meetpoint Extended Connection ⁶ .Vintage Rate*	MS9PM	1173.00	964.00	770.00	835.00

* Plan A and Plan B rate in effect prior to September 23, 2004.

- 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

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

		Month to	A 12 to 24	B 25 to 48	Nonrecurrin g Charges
	USOC	Month	Months	Months	
1024 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹ .Vintage Rate*	MS9PN	\$660.00	\$ 579.00	\$ 501.00	\$ 835.00
- MSFRS Meetpoint Extended Connection ² .Vintage Rate*	MS9PN	774.00	664.00	545.00	835.00
- MSFRS Meetpoint Extended Connection ³ .Vintage Rate*	MS9PN	869.00	736.00	594.00	835.00
- MSFRS Meetpoint Extended Connection ⁴ .Vintage Rate*	MS9PN	983.00	822.00	651.00	835.00
- MSFRS Meetpoint Extended Connection ⁵ .Vintage Rate*	MS9PN	1078.00	893.00	699.00	835.00
- MSFRS Meetpoint Extended Connection ⁶ .Vintage Rate*	MS9PN	1173.00	964.00	770.00	835.00

* Plan A and Plan B rate in effect prior to September 23, 2004.

- 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

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

	USOC	Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
1152 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9PO	\$660.00	\$ 579.00	\$ 501.00	\$ 835.00
.Vintage Rate*	MS9PO		472.00	409.00	
- MSFRS Meetpoint Extended Connection ²	MS9PO	774.00	664.00	545.00	835.00
.Vintage Rate*	MS9PO		565.00	464.00	
- MSFRS Meetpoint Extended Connection ³	MS9PO	869.00	736.00	594.00	835.00
.Vintage Rate*	MS9PO		643.00	518.00	
- MSFRS Meetpoint Extended Connection ⁴	MS9PO	983.00	822.00	651.00	835.00
.Vintage Rate*	MS9PO		735.00	582.00	
- MSFRS Meetpoint Extended Connection ⁵	MS9PO	1078.00	893.00	699.00	835.00
.Vintage Rate*	MS9PO		811.00	634.00	
- MSFRS Meetpoint Extended Connection ⁶	MS9PO	1173.00	964.00	770.00	835.00
.Vintage Rate*	MS9PO		887.00	708.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

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

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

		Month to	A 12 to 24	B 25 to 48	Nonrecurring
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	1L5RN	\$ 660.00	\$ 579.00	\$ 501.00	\$ 825.00
- MSFRS Meetpoint Extended Connection ²	1L5RN	774.00	664.00	545.00	825.00
- MSFRS Meetpoint Extended Connection ³	1L5RN	869.00	736.00	594.00	825.00
- MSFRS Meetpoint Extended Connection ⁴	1L5RN	983.00	822.00	651.00	825.00
- MSFRS Meetpoint Extended Connection ⁵	1L5RN	1078.00	893.00	699.00	825.00
- MSFRS Meetpoint Extended Connection ⁶	1L5RN	1173.00	964.00	770.00	825.00
3 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9PP	\$2608.00	\$2443.00	\$2230.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9PP	3220.00	3030.00	2786.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9PP	3717.00	3499.00	3235.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PP	4218.00	3971.00	3683.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PP	4477.00	4220.00	3917.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PP	4620.00	4362.00	4059.00	\$ 1860.00

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

		Month	A	B	Nonrecurring
		to	12 to 24	25 to 48	Charges
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	
6 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9PQ	\$2660.00	\$2486.00	\$2297.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9PQ	3273.00	3072.00	2853.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9PQ	3770.00	3541.00	3303.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PQ	4270.00	4014.00	3751.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PQ	4529.00	4262.00	3985.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PQ	4673.00	4405.00	4127.00	\$ 1860.00
9 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9PR	\$2800.00	\$2614.00	\$2409.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9PR	3413.00	3200.00	2967.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9PR	3910.00	3669.00	3417.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PR	4410.00	4141.00	3863.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PR	4669.00	4390.00	4098.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PR	4813.00	4533.00	4240.00	\$ 1860.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

		Month	A	B	Nonrecurring
		to	12 to 24	25 to 48	Charges
	USOC	Month	Months	Months	
12 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9PS	\$2940.00	\$2741.00	\$2522.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9PS	3553.00	3328.00	3079.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9PS	4050.00	3797.00	3529.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PS	4550.00	4269.00	3977.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PS	4809.00	4517.00	4211.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PS	4953.00	4660.00	4353.00	\$ 1860.00
15 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9PT	\$3080.00	\$2869.00	\$2635.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9PT	3693.00	3456.00	3192.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9PT	4190.00	3924.00	3642.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PT	4690.00	4397.00	4089.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PT	4949.00	4645.00	4323.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PT	5093.00	4788.00	4465.00	\$ 1860.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

		Month to	A 12 to 24	B 25 to 48	Nonrecurring
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
18 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9PU	\$3220.00	\$2997.00	\$2748.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9PU	3833.00	3583.00	3305.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9PU	4330.00	4052.00	3755.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PU	4830.00	4524.00	4201.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PU	5089.00	4773.00	4436.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PU	5303.00	4915.00	4578.00	\$ 1860.00
21 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9PV	\$3360.00	\$3125.00	\$2861.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	MS9PV	3973.00	3711.00	3418.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ³	MS9PV	4470.00	4180.00	3868.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PV	4970.00	4652.00	4315.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PV	5229.00	4900.00	4549.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PV	5373.00	5043.00	4691.00	\$ 1860.00

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

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

		Month to	A 12 to 24	B 25 to 48	Nonrecurring
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
24 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9PW	\$3500.00)	\$3252.00	\$2974.00	\$1860.00
- MSFRS Meetpoint Extended Connection ²	MS9PW	4112.00	3839.00	3531.00	\$1860.00
- MSFRS Meetpoint Extended Connection ³	MS9PW	4610.00	4307.00	3980.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PW	5110.00	4780.00	4428.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PW	5369.00	5028.00	4661.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PW	5513.00	5171.00	4804.00	\$1860.00
27 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9PX	\$3640.00	\$3380.00	\$3086.00	\$1860.00
- MSFRS Meetpoint Extended Connection ²	MS9PX	4253.00	3966.00	3644.00	\$1860.00
- MSFRS Meetpoint Extended Connection ³	MS9PX	4750.00	4435.00	4093.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PX	5250.00	4907.00	4540.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PX	5509.00	5156.00	4774.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PX	5653.00	5298.00	4917.00	\$1860.00

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

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

		Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
30 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9PY	\$3780.00	\$3508.00	\$3199.00	\$1860.00
- MSFRS Meetpoint Extended Connection ²	MS9PY	4393.00	4094.00	3756.00	\$1860.00
- MSFRS Meetpoint Extended Connection ³	MS9PY	4890.00	4563.00	4206.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PY	5390.00	5035.00	4653.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PY	5649.00	5283.00	4887.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PY	5793.00	5426.00	5029.00	\$1860.00
33 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9PZ	\$3920.00	\$3635.00	\$3312.00	\$1860.00
- MSFRS Meetpoint Extended Connection ²	MS9PZ	4533.00	4222.00	3868.00	\$1860.00
- MSFRS Meetpoint Extended Connection ³	MS9PZ	5030.00	4690.00	4318.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PZ	5530.00	5163.00	4765.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PZ	5789.00	5410.00	4999.00	\$1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PZ	5933.00	5554.00	5142.00	\$1860.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

		Month to <u>Month</u>	A 12 to 24 <u>Months</u>	B 25 to 48 <u>Months</u>	Nonrecurring <u>Charges</u>
44.210 Mbps (BCOS : MS9XS)	<u>USOC</u>				
- MSFRS Meetpoint Extended Connection ¹	1L5RN	\$4372.00	\$4089.00	\$3802.00	\$ 1860.00
- MSFRS Meetpoint Extended Connection ²	1L5RN	4984.00	4676.00	4361.00	1860.00
- MSFRS Meetpoint Extended Connection ³	1L5RN	5481.00	5144.00	4812.00	1860.00
- MSFRS Meetpoint Extended Connection ⁴	1L5RN	5982.00	5617.00	5259.00	1860.00
- MSFRS Meetpoint Extended Connection ⁵	1L5RN	6241.00	5865.00	5493.00	1860.00
- MSFRS Meetpoint Extended Connection ⁶	1L5RN	6384.00	6008.00	5636.00	1860.00

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

		Month to	A 12 to 24	B 25 to 48	Nonrecurring
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
MultiLink 3.072 Mbps (BCOS: MS9XT)					
- MSFRS Meetpoint Extended Connection ¹	MS9PP	\$ 665.00	\$ 573.00	\$ 494.00	\$1220.00
- MSFRS Meetpoint Extended Connection ²	MS9PP	833.00	704.00	575.00	1220.00
- MSFRS Meetpoint Extended Connection ³	MS9PP	973.00	813.00	652.00	1220.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PP	1141.00	942.00	742.00	1220.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PP	1281.00	1049.00	816.00	1220.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PP	1421.00	1156.00	921.00	1220.00
MultiLink 6.144 Mbps (BCOS: MS9XT)					
- MSFRS Meetpoint Extended Connection ¹	MS9PQ	\$1386.00	\$1219.00	\$1084.00	\$1840.00
- MSFRS Meetpoint Extended Connection ²	MS9PQ	1722.00	1478.00	1232.00	1840.00
- MSFRS Meetpoint Extended Connection ³	MS9PQ	2002.00	1693.00	1381.00	1840.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PQ	2338.00	1949.00	1557.00	1840.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PQ	2618.00	2162.00	1702.00	1840.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PQ	2898.00	2374.00	1910.00	1840.00

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

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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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(2) NNI

		Month to Month	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
MultiLink 9.216 Mbps (BCOS: MS9XT)					
- MSFRS Meetpoint Extended Connection ¹	MS9PR	\$2317.00	\$1893.00	\$1703.00	\$2185.00
- MSFRS Meetpoint Extended Connection ²	MS9PR	2821.00	2274.00	1912.00	2185.00
- MSFRS Meetpoint Extended Connection ³	MS9PR	3241.00	2591.00	2129.00	2185.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PR	3745.00	2972.00	2387.00	2185.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PR	4165.00	3288.00	2601.00	2185.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PR	4585.00	3604.00	2913.00	2185.00
MultiLink 12.280 Mbps (BCOS: MS9XT)					
- MSFRS Meetpoint Extended Connection ¹	MS9PS	\$3178.00	\$2613.00	\$2309.00	\$2805.00
- MSFRS Meetpoint Extended Connection ²	MS9PS	3850.00	3121.00	2580.00	2805.00
- MSFRS Meetpoint Extended Connection ³	MS9PS	4410.00	3543.00	2867.00	2805.00
- MSFRS Meetpoint Extended Connection ⁴	MS9PS	5082.00	4050.00	3210.00	2805.00
- MSFRS Meetpoint Extended Connection ⁵	MS9PS	5642.00	4472.00	3494.00	2805.00
- MSFRS Meetpoint Extended Connection ⁶	MS9PS	6202.00	4892.00	3910.00	2805.00

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(3) Manual Back-Up UNI

		Month to	Plan A 12 to 24	Plan B 25 to 48	Nonrecurring
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9BQ	\$ 528.00	\$ 463.00	\$ 400.00	\$ 825.00
- MSFRS Meetpoint Extended Connection ²	MS9BQ	619.00	531.00	436.00	825.00
- MSFRS Meetpoint Extended Connection ³	MS9BQ	695.00	588.00	474.00	825.00
- MSFRS Meetpoint Extended Connection ⁴	MS9BQ	787.00	656.00	521.00	825.00
- MSFRS Meetpoint Extended Connection ⁵	MS9BQ	863.00	714.00	559.00	825.00
- MSFRS Meetpoint Extended Connection ⁶	MS9BQ	939.00	771.00	616.00	825.00
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9BQ	\$3497.00	\$3271.00	\$3042.00	\$1860.00
- MSFRS Meetpoint Extended Connection ²	MS9BQ	3987.00	3741.00	3489.00	1860.00
- MSFRS Meetpoint Extended Connection ³	MS9BQ	4385.00	4116.00	3849.00	1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9BQ	4785.00	4493.00	4207.00	1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9BQ	4992.00	4692.00	4395.00	1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9BQ	5107.00	4807.00	4509.00	1860.00

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

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(3) Automatic Back-Up UNI

		Month to <u>Month</u>	Plan A 12 to 24 <u>Months</u>	Plan B 25 to 48 <u>Months</u>	Nonrecurring <u>Charges</u>
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9BR	\$ 528.00	\$ 463.00	\$ 400.00	\$ 825.00
- MSFRS Meetpoint Extended Connection ²	MS9BR	619.00	531.00	436.00	825.00
- MSFRS Meetpoint Extended Connection ³	MS9BR	695.00	588.00	474.00	825.00
- MSFRS Meetpoint Extended Connection ⁴	MS9BR	787.00	656.00	521.00	825.00
- MSFRS Meetpoint Extended Connection ⁵	MS9BR	863.00	714.00	559.00	825.00
- MSFRS Meetpoint Extended Connection ⁶	MS9BR	939.00	771.00	616.00	825.00
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9BR	\$3497.00	\$3271.00	\$3042.00	\$1860.00
- MSFRS Meetpoint Extended Connection ²	MS9BR	3987.00	3741.00	3489.00	1860.00
- MSFRS Meetpoint Extended Connection ³	MS9BR	4385.00	4116.00	3849.00	1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9BR	4785.00	4493.00	4207.00	1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9BR	4992.00	4692.00	4395.00	1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9BR	5107.00	4807.00	4509.00	1860.00

Note 1: Meetpoint is over 0 to 20 miles outside Service Area.
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 Note 6: Meetpoint is over 125 miles outside Service Area.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(4) Manual Back-Up NNI

		Month to <u>Month</u>	Plan A 12 to 24 <u>Months</u>	Plan B 25 to 48 <u>Months</u>	Nonrecurring <u>Charges</u>
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9BS	\$ 528.00	\$ 463.00	\$ 400.00	\$ 825.00
- MSFRS Meetpoint Extended Connection ²	MS9BS	619.00	531.00	436.00	825.00
- MSFRS Meetpoint Extended Connection ³	MS9BS	695.00	588.00	474.00	825.00
- MSFRS Meetpoint Extended Connection ⁴	MS9BS	787.00	656.00	521.00	825.00
- MSFRS Meetpoint Extended Connection ⁵	MS9BS	863.00	714.00	559.00	825.00
- MSFRS Meetpoint Extended Connection ⁶	MS9BS	939.00	771.00	616.00	825.00
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9BS	\$3497.00	\$3271.00	\$3042.00	\$1860.00
- MSFRS Meetpoint Extended Connection ²	MS9BS	3987.00	3741.00	3489.00	1860.00
- MSFRS Meetpoint Extended Connection ³	MS9BS	4385.00	4116.00	3849.00	1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9BS	4785.00	4493.00	4207.00	1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9BS	4992.00	4692.00	4395.00	1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9BS	5107.00	4807.00	4509.00	1860.00

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.
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 Note 5: Meetpoint is over 100 to 125 miles outside Service Area.
 Note 6: Meetpoint is over 125 miles outside Service Area.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

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

(4) Automatic Back-Up NNI

		Month to Month	Plan A 12 to 24 Months	Plan B 25 to 48 Months	Nonrecurring Charges
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ¹	MS9BT	\$ 528.00	\$ 463.00	\$ 400.00	\$ 825.00
- MSFRS Meetpoint Extended Connection ²	MS9BT	619.00	531.00	436.00	825.00
- MSFRS Meetpoint Extended Connection ³	MS9BT	695.00	588.00	474.00	825.00
- MSFRS Meetpoint Extended Connection ⁴	MS9BT	787.00	656.00	521.00	825.00
- MSFRS Meetpoint Extended Connection ⁵	MS9BT	863.00	714.00	559.00	825.00
- MSFRS Meetpoint Extended Connection ⁶	MS9BT	939.00	771.00	616.00	825.00
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ¹	MS9BT	\$3497.00	\$3271.00	\$3042.00	\$1860.00
- MSFRS Meetpoint Extended Connection ²	MS9BT	3987.00	3741.00	3489.00	1860.00
- MSFRS Meetpoint Extended Connection ³	MS9BT	4385.00	4116.00	3849.00	1860.00
- MSFRS Meetpoint Extended Connection ⁴	MS9BT	4785.00	4493.00	4207.00	1860.00
- MSFRS Meetpoint Extended Connection ⁵	MS9BT	4992.00	4692.00	4395.00	1860.00
- MSFRS Meetpoint Extended Connection ⁶	MS9BT	5107.00	4807.00	4509.00	1860.00

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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features

	<u>USOC</u>	<u>Month to Month</u>	<u>Nonrecurring Charges</u>
(1) DLCI ¹			
-Initial Standard DLCI ²	XAFD1	None	None
-Additional Standard DLCI	XAFD2	\$ 1.50	\$ 70.00
-Initial Priority DLCI ^{2,3}	XAFP1	\$ 5.00	None
-Additional Priority DLCI ³	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 ³	XAFP3	\$ 5.00	\$ 70.00
-Priority Primary DLCI ³	XAFP4	\$ 5.00	\$ 70.00
-Priority Secondary DLCI ³	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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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features

	<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 ¹			
-0 Bps	XAFCA	None	None
-Over 256 thru 384 Kbps	XAF CJ	25.20	None
-Over 384 thru 512 Kbps	XAF CK	28.80	None
-Over 512 thru 768 Kbps	XAF CL	32.40	None
-Over 768 Kbps thru 1.536 Mbps	XAF CM	41.25	None
-Over 1.536 thru 4 Mbps	XAF CP	130.00	None
-Over 4 thru 10 Mbps	XAF CQ	325.00	None
-Over 10 thru 16 Mbps	XAF CR	525.00	None
-Over 16 thru 34 Mbps	XAF CT	1100.00	None
-Over 34 thru 44.210 Mbps	XAF CU	1500.00	None

Note 1: 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features

	<u>USOC</u>	Month to Month	Nonrecurring Charges
(3) Frame Relay to ATM Network Interworking Committed Information Rate (CIR), Per DLCI to be mapped to an ATM PVC Segment			
-Over 256 thru 384 Kbps	MS95J	27.70	None
-Over 384 thru 512 Kbps	MS95K	31.70	None
-Over 512 thru 768 Kbps	MS95L	35.60	None
-Over 768 Kbps thru 1.536 Mbps	MS95M	45.40	None
-Over 1.536 thru 4 Mbps	MS95P	143.00	None
-Over 4 thru 10 Mbps	MS95Q	357.50	None
-Over 10 thru 16 Mbps	MS95R	577.50	None
-Over 16 thru 34 Mbps	MS95T	1,210.00	None
-Over 34 thru 44.210 Mbps	MS95U	1,650.00	None

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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features

	<u>USOC</u>	Month to Month	Nonrecurring <u>Charges</u>
(4) Inter Service Area Link (ISAL) Committed Information Rate (CIR) (Per ISAL PVC, per end of link) ¹			
-Over 256 thru 384 Kbps	MS9CJ	\$25.20	\$35.00
-Over 384 thru 512 Kbps	MS9CK	28.80	35.00
-Over 512 thru 768 Kbps	MS9CL	32.40	35.00
-Over 768 Kbps thru 1.536 Mbps	MS9CM	41.25	35.00
-Over 1.536 thru 4 Mbps	MS9CP	130.00	35.00
-Over 4 thru 10 Mbps	MS9CQ	325.00	35.00
-Over 10 thru 16 Mbps	MS9CR	525.00	35.00
-Over 16 thru 34 Mbps	MS9CT	1,100.00	35.00
-Over 34 thru 44.210 Mbps	MS9CU	1,500.00	35.00

Note 1: 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.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges(Cont'd)

(B) Optional Features (Cont'd)

(5) MultiCast PVC

MultiCast PVC Group Charge - One MultiCast PVC Group Charge applies per MultiCast PVC on a host site MSFRS Connection. This charge is in addition to the appropriate charges (DLCI, CIR, etc.) for the individual host to remote PVCs which are members of the MultiCast PVC Group.

- a) Per Standard MultiCast PVC Group (established from multiple host to remote PVCs which utilize all Standard DLCIs) on a host MSFRS Connection of the following transmission speed:

		Month to Month	Nonrecurring Charges
	<u>USOC</u>		
1.536 Mbps	FRVW1	\$ 210.50	\$ 100.00
3 Mbps	FRVW3	290.80	100.00
6 Mbps	FRVW6	340.00	100.00
9 Mbps	FRVW9	385.00	100.00
12 Mbps	FRVW2	430.00	100.00
15 Mbps	FRVW5	475.00	100.00
18 Mbps	FRVW8	520.00	100.00
21 Mbps	FRVWT	565.00	100.00
24 Mbps	FRVW4	610.00	100.00
27 Mbps	FRVW7	655.00	100.00
30 Mbps	FRVW0	700.00	100.00
33 Mbps	FRVWM	745.00	100.00
44.210 Mbps	FRVWN	840.00	100.00

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(5) MultiCast PVC (Cont'd)

b) Per Priority MultiCast PVC Group (established from multiple host to remote PVCs which utilize all Priority DLCIs) on a host MSFRS Connection of the following transmission speed:

	<u>USOC</u>	Month to <u>Month</u>	<u>Nonrecurring Charges</u>
1.536 Mbps	FRVN1	\$ 225.50	\$ 100.00
3 Mbps	FRVN3	305.80	100.00
6 Mbps	FRVN6	355.00	100.00
9 Mbps	FRVN9	400.00	100.00
12 Mbps	FRVN2	445.00	100.00
15 Mbps	FRVN5	490.00	100.00
18 Mbps	FRVN8	535.00	100.00
21 Mbps	FRVNT	580.00	100.00
24 Mbps	FRVN4	625.00	100.00
27 Mbps	FRVN7	670.00	100.00
30 Mbps	FRVNO	715.00	100.00
33 Mbps	FRVNM	760.00	100.00
44.210 Mbps	FRVNN	855.00	100.00

MultiCast PVC Group Modification Charge - The MultiCast PVC Group Modification Charge is a nonrecurring charge that applies per member PVC requested to be modified, added to or deleted from an existing MultiCast PVC Group.

a) Per Customer Request

	<u>USOC</u>	Month To <u>Month</u>	<u>Nonrecurring Charges</u>
Per Host to Remote PVC	FRVMC	None	\$ 40.00

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(6) 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

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning UNI¹

	<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>
256 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AE	52.00	47.00	41.00	139.00
- MSFRS Extended Connection ²	MS9DE	109.00	98.00	87.00	139.00
320 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AF	59.00	53.00	47.00	139.00
- MSFRS Extended Connection ²	MS9DF	116.00	104.00	92.00	139.00
384 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AG	59.00	53.00	47.00	149.00
- MSFRS Extended Connection ²	MS9DG	116.00	104.00	92.00	149.00
448 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AH	59.00	53.00	47.00	149.00
- MSFRS Extended Connection ²	MS9DH	116.00	105.00	93.00	149.00
512 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AJ	59.00	53.00	47.00	149.00
- MSFRS Extended Connection ²	MS9DJ	116.00	105.00	93.00	149.00

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Customer Premises SWC is outside Service Area.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(C)

(7) Special Provisioning UNI¹

	USOC	Month to Month	Plan A 12 to 24 Months	Plan B 25 to 48 Months	Nonrecurring Charges
576 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AK	\$ 81.00	\$ 72.00	\$ 65.00	\$ 149.00
.Vintage Rate*	MS9AK		54.00	48.00	
- MSFRS Extended Connection ²	MS9DK	135.00	122.00	107.00	149.00
.Vintage Rate*	MS9DK		105.00	94.00	
640 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AL	81.00	72.00	65.00	\$ 149.00
.Vintage Rate*	MS9AL		54.00	48.00	
- MSFRS Extended Connection ²	MS9DL	135.00	122.00	107.00	149.00
.Vintage Rate*	MS9DL		105.00	94.00	
704 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AM	81.00	72.00	65.00	149.00
.Vintage Rate*	MS9AM		55.00	49.00	
- MSFRS Extended Connection ²	MS9DM	135.00	122.00	107.00	149.00
.Vintage Rate*	MS9DM		106.00	94.00	
768 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AN	81.00	72.00	65.00	149.00
.Vintage Rate*	MS9AN		55.00	49.00	
- MSFRS Extended Connection ²	MS9DN	135.00	122.00	107.00	149.00
.Vintage Rate*	MS9DN		106.00	94.00	
1024 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AO	81.00	72.00	65.00	149.00
.Vintage Rate*	MS9AO		55.00	49.00	
- MSFRS Extended Connection ²	MS9DO	135.00	122.00	107.00	149.00
.Vintage Rate*	MS9DO		107.00	95.00	
1152 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AP	81.00	72.00	65.00	149.00
.Vintage Rate*	MS9AP		55.00	49.00	
- MSFRS Extended Connection ²	MS9DP	135.00	122.00	107.00	149.00
.Vintage Rate*	MS9DP		107.00	95.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Customer Premises SWC

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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning UNI¹

	<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>
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Connection	MS9A2	\$ 81.00	\$ 72.00	\$ 65.00	\$ 149.00
- MSFRS Extended Connection ²	MS9D2	135.00	122.00	107.00	149.00
3 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AQ	260.00	235.00	209.00	334.00
- MSFRS Extended Connection ²	MS9DQ	608.00	547.00	487.00	334.00
6 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AR	268.00	242.00	215.00	334.00
- MSFRS Extended Connection ²	MS9DR	616.00	554.00	493.00	334.00
9 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AS	289.00	260.00	232.00	334.00
- MSFRS Extended Connection ²	MS9DS	637.00	573.00	510.00	334.00

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Customer Premises SWC is outside Service Area.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning UNI¹

	USOC	Month to Month	Plan A 12 to 24 Months	Plan B 25 to 48 Months	Nonrecurring Charges
12 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AT	\$ 310.00	\$ 279.00	\$ 249.00	\$ 334.00
- MSFRS Extended Connection ²	MS9DT	658.00	592.00	526.00	334.00
15 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AU	331.00	298.00	265.00	334.00
- MSFRS Extended Connection ²	MS9DU	679.00	611.00	543.00	334.00
18 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AV	352.00	317.00	282.00	334.00
- MSFRS Extended Connection ²	MS9DV	700.00	630.00	560.00	334.00
21 Mbps (BCOS: MS9XS)					
- MSFRS Connection	MS9AW	373.00	336.00	299.00	334.00
- MSFRS Extended Connection ²	MS9DW	721.00	649.00	577.00	334.00
24 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AX	394.00	355.00	316.00	334.00
- MSFRS Extended Connection ²	MS9DX	742.00	668.00	594.00	334.00
27 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AY	415.00	374.00	333.00	334.00
- MSFRS Extended Connection ²	MS9DY	763.00	687.00	610.00	334.00
30 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AZ	436.00	393.00	349.00	334.00
- MSFRS Extended Connection ²	MS9DZ	784.00	706.00	627.00	334.00
33 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9A1	457.00	412.00	366.00	334.00
- MSFRS Extended Connection ²	MS9D1	805.00	725.00	644.00	334.00
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AA	525.00	473.00	420.00	334.00
- MSFRS Extended Connection ²	MS9AB	873.00	785.00	698.00	334.00

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Customer Premises SWC is outside Service Area.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning NNI¹

	<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>
256 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AE	52.00	47.00	41.00	139.00
- MSFRS Extended Connection ²	MS9DE	109.00	98.00	87.00	139.00
320 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AF	59.00	53.00	47.00	139.00
- MSFRS Extended Connection ²	MS9DF	116.00	104.00	92.00	139.00
384 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AG	59.00	53.00	47.00	149.00
- MSFRS Extended Connection ²	MS9DG	116.00	104.00	92.00	149.00
448 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AH	59.00	53.00	47.00	149.00
- MSFRS Extended Connection ²	MS9DH	116.00	105.00	93.00	149.00
512 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AJ	59.00	53.00	47.00	149.00
- MSFRS Extended Connection ²	MS9DJ	116.00	105.00	93.00	149.00

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Customer Premises SWC is outside Service Area.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning NNI¹

	USOC	Month to Month	Plan A 12 to 24 Months	Plan B 25 to 48 Months	Nonrecurring Charges
576 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AK	\$ 81.00	\$ 72.00	\$ 65.00	\$ 149.00
.Vintage Rate*	MS9AK		54.00	48.00	
- MSFRS Extended Connection ²	MS9DK	135.00	122.00	107.00	149.00
.Vintage Rate*	MS9DK		105.00	94.00	
640 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AL	81.00	72.00	65.00	149.00
.Vintage Rate*	MS9AL		54.00	48.00	
- MSFRS Extended Connection ²	MS9DL	135.00	122.00	107.00	149.00
.Vintage Rate*	MS9DL		105.00	94.00	
704 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AM	81.00	72.00	65.00	149.00
.Vintage Rate*	MS9AM		55.00	49.00	
- MSFRS Extended Connection ²	MS9DM	135.00	122.00	107.00	149.00
.Vintage Rate*	MS9DM		106.00	94.00	
768 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AN	81.00	72.00	65.00	149.00
.Vintage Rate*	MS9AN		55.00	49.00	
- MSFRS Extended Connection ²	MS9DN	135.00	122.00	107.00	149.00
.Vintage Rate*	MS9DN		106.00	94.00	
1024 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AO	81.00	72.00	65.00	149.00
.Vintage Rate*	MS9AO		55.00	49.00	
- MSFRS Extended Connection ²	MS9DO	135.00	122.00	107.00	149.00
.Vintage Rate*	MS9DO		107.00	95.00	
1152 Kbps (BCOS : MS9XU)					
- MSFRS Connection	MS9AP	81.00	72.00	65.00	149.00
.Vintage Rate*	MS9AP		55.00	49.00	
- MSFRS Extended Connection ²	MS9DP	135.00	122.00	107.00	149.00
.Vintage Rate*	MS9DP		107.00	95.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Customer Premises SWC is outside Service Area.

ACCESS SERVICE

21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning NNI¹

	<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>
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Connection	MS9A2	\$ 81.00	\$ 72.00	\$ 65.00	\$ 149.00
- MSFRS Extended Connection ²	MS9D2	135.00	122.00	107.00	149.00
3 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AQ	260.00	235.00	209.00	334.00
- MSFRS Extended Connection ²	MS9DQ	608.00	547.00	487.00	334.00
6 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AR	268.00	242.00	215.00	334.00
- MSFRS Extended Connection ²	MS9DR	616.00	554.00	493.00	334.00
9 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AS	289.00	260.00	232.00	334.00
- MSFRS Extended Connection ²	MS9DS	637.00	573.00	510.00	334.00

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Customer Premises SWC is outside Service Area.

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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning NNI¹

	<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>
12 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AT	\$ 310.00	\$ 279.00	\$ 249.00	\$ 334.00
- MSFRS Extended Connection ²	MS9DT	658.00	592.00	526.00	334.00
15 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AU	331.00	298.00	265.00	334.00
- MSFRS Extended Connection ²	MS9DU	679.00	611.00	543.00	334.00
18 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AV	352.00	317.00	282.00	334.00
- MSFRS Extended Connection ²	MS9DV	700.00	630.00	560.00	334.00
21 Mbps (BCOS: MS9XS)					
- MSFRS Connection	MS9AW	373.00	336.00	299.00	334.00
- MSFRS Extended Connection ²	MS9DW	721.00	649.00	577.00	334.00
24 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AX	394.00	355.00	316.00	334.00
- MSFRS Extended Connection ²	MS9DX	742.00	668.00	594.00	334.00
27 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AY	415.00	374.00	333.00	334.00
- MSFRS Extended Connection ²	MS9DY	763.00	687.00	610.00	334.00
30 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AZ	436.00	393.00	349.00	334.00
- MSFRS Extended Connection ²	MS9DZ	784.00	706.00	627.00	334.00
33 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9A1	457.00	412.00	366.00	334.00
- MSFRS Extended Connection ²	MS9D1	805.00	725.00	644.00	334.00
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Connection	MS9AA	525.00	473.00	420.00	334.00
- MSFRS Extended Connection ²	MS9AB	873.00	785.00	698.00	334.00

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Customer Premises SWC is outside Service Area.

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

		UNI ¹		Plan A	Plan B	Nonrecurring Charges
		Month	to	12 to 24	25 to 48	
		<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	
256 Kbps (BCOS :						
MS9XU)						
- MSFRS Meetpoint	MS9JE	104.00		94.00	83.00	116.00
Extended Connection ²						
320 Kbps (BCOS :						
MS9XU)						
- MSFRS Meetpoint	MS9JF	111.00		100.00	89.00	116.00
Extended Connection ²						
384 Kbps (BCOS :						
MS9XU)						
- MSFRS Meetpoint	MS9JG	111.00		100.00	89.00	125.00
Extended Connection ²						
448 Kbps (BCOS :						
MS9XU)						
- MSFRS Meetpoint	MS9JH	112.00		101.00	89.00	125.00
Extended Connection ²						
512 Kbps (BCOS :						
MS9XU)						
- MSFRS Meetpoint	MS9JJ	112.00		101.00	89.00	125.00
Extended Connection ²						

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Meetpoint is outside Service Area.

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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning UNI¹

	<u>USOC</u>	Month to <u>Month</u>	Plan A 12 to 24 <u>Months</u>	Plan B 25 to 48 <u>Months</u>	Nonrecurring <u>Charges</u>
576 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9JK	\$ 130.00	\$ 118.00	\$ 105.00	\$ 125.00
.Vintage Rate*	MS9JK		101.00	90.00	
640 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9JL	130.00	118.00	105.00	125.00
.Vintage Rate*	MS9JL		101.00	90.00	
704 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9JM	130.00	118.00	105.00	125.00
.Vintage Rate*	MS9JM		102.00	91.00	
768 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9JN	130.00	118.00	105.00	125.00
.Vintage Rate*	MS9JN		102.00	91.00	
1024 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9JO	130.00	118.00	105.00	125.00
.Vintage Rate*	MS9JO		102.00	91.00	
1152 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9JP	130.00	118.00	105.00	125.00
.Vintage Rate*	MS9JP		102.00	91.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Meetpoint is outside Service Area.

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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning UNI¹

	<u>USOC</u>	Month to <u>Month</u>	Plan A 12 to 24 <u>Months</u>	Plan B 25 to 48 <u>Months</u>	Non- Recurring <u>Charges</u>
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9J2	\$ 130.00	\$ 118.00	\$ 105.00	\$ 125.00
3 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JQ	558.00	502.00	446.00	279.00
6 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JR	566.00	509.00	452.00	279.00
9 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JS	587.00	528.00	469.00	279.00

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Meetpoint is outside Service Area.

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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning UNI¹

	<u>USOC</u>	Month to <u>Month</u>	Plan A 12 to 24 <u>Months</u>	Plan B 25 to 48 <u>Months</u>	Nonrecurring <u>Charges</u>
12 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JT	\$ 608.00	\$ 547.00	\$ 486.00	\$ 279.00
15 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JU	629.00	566.00	503.00	279.00
18 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JV	650.00	585.00	519.00	279.00
21 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JW	671.00	603.00	536.00	279.00
24 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JX	692.00	622.00	553.00	279.00
27 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JY	713.00	641.00	570.00	279.00
30 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JZ	734.00	660.00	587.00	279.00
33 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9J1	755.00	679.00	603.00	279.00
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9J3	823.00	740.00	658.00	279.00

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Meetpoint is outside Service Area.

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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning		NNI ¹	Plan A	Plan B	Nonrecurring
		Month	12 to 24	25 to 48	Charges
		to	Months	Months	
		Month			
	USOC	Month			
256 Kbps (BCOS :					
MS9XU)					
- MSFRS Meetpoint	MS9JE	104.00	94.00	83.00	116.00
Extended Connection ²					
320 Kbps (BCOS :					
MS9XU)					
- MSFRS Meetpoint	MS9JF	111.00	100.00	89.00	116.00
Extended Connection ²					
384 Kbps (BCOS :					
MS9XU)					
- MSFRS Meetpoint	MS9JG	111.00	100.00	89.00	125.00
Extended Connection ²					
448 Kbps (BCOS :					
MS9XU)					
- MSFRS Meetpoint	MS9JH	112.00	101.00	89.00	125.00
Extended Connection ²					
512 Kbps (BCOS :					
MS9XU)					
- MSFRS Meetpoint	MS9JJ	112.00	101.00	89.00	125.00
Extended Connection ²					

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Meetpoint is outside Service Area.

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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning NNI¹

	<u>USOC</u>	<u>Month</u> to <u>Month</u>	<u>Plan A</u> 12 to 24 <u>Months</u>	<u>Plan B</u> 25 to 48 <u>Months</u>	<u>Nonrecurring</u> <u>Charges</u>
576 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9JK	\$ 130.00	\$ 118.00	\$ 105.00	\$ 125.00
.Vintage Rate*	MS9JK		101.00	90.00	
640 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9JL	130.00	118.00	105.00	125.00
.Vintage Rate*	MS9JL		101.00	90.00	
704 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9JM	130.00	118.00	105.00	125.00
.Vintage Rate*	MS9JM		102.00	91.00	
768 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9JN	130.00	118.00	105.00	125.00
.Vintage Rate*	MS9JN		102.00	91.00	
1024 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9JO	130.00	118.00	105.00	125.00
.Vintage Rate*	MS9JO		102.00	91.00	
1152 Kbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9JP	130.00	118.00	105.00	125.00
.Vintage Rate*	MS9JP		102.00	91.00	

* Plan A and Plan B rate in effect prior to September 23, 2004.

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Meetpoint is outside Service Area.

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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning NNI¹

	<u>USOC</u>	<u>Month</u> to <u>Month</u>	<u>Plan A</u> 12 to 24 <u>Months</u>	<u>Plan B</u> 25 to 48 <u>Months</u>	<u>Nonrecurring</u> <u>Charges</u>
1.536 Mbps (BCOS : MS9XU)					
- MSFRS Meetpoint Extended Connection ²	MS9J2	\$ 130.00	\$ 118.00	\$ 105.00	\$ 125.00
3 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JQ	558.00	502.00	446.00	279.00
6 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JR	566.00	509.00	452.00	279.00
9 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JS	587.00	528.00	469.00	279.00

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Meetpoint is outside Service Area.

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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(B) Optional Features (Cont'd)

(7) Special Provisioning NNI¹

	<u>USOC</u>	<u>Month</u> to <u>Month</u>	<u>Plan A</u> 12 to 24 <u>Months</u>	<u>Plan B</u> 25 to 48 <u>Months</u>	<u>Nonrecurring</u> <u>Charges</u>
12 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JT	\$ 608.00	\$ 547.00	\$ 486.00	\$ 279.00
15 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JU	629.00	566.00	503.00	279.00
18 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JV	650.00	585.00	519.00	279.00
21 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JW	671.00	603.00	536.00	279.00
24 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JX	692.00	622.00	553.00	279.00
27 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JY	713.00	641.00	570.00	279.00
30 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9JZ	734.00	660.00	587.00	279.00
33 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9J1	755.00	679.00	603.00	279.00
44.210 Mbps (BCOS : MS9XS)					
- MSFRS Meetpoint Extended Connection ²	MS9J3	823.00	740.00	658.00	279.00

Note 1: Special Provisioning charges are in addition to Standard or Primary MSFRS Connection charges.

Note 2: Meetpoint is outside Service Area.

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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges(Cont'd)

(B) Optional Features (Cont'd)

(8) CNM-Customer Configuration Management Capability⁽¹⁾ - Rate elements (C) 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

⁽¹⁾ See footnote (1) on Sheet 120.

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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges(Cont'd)

(B) Optional Features (Cont'd)

- (9) Regional InterLATA PVC Extension, Committed Information Rate (CIR)
(Per InterLATA PVC, per end of extension)

	<u>USOC</u>	Month to <u>Month</u>	Nonrecurring <u>Charges</u>
-0 thru 32 Kbps	XAFRA	\$ 10.00	\$ 50.00
-Over 32 thru 56 Kbps	XAFRB	15.00	50.00
-Over 56 thru 64 Kbps	XAFRC	16.00	50.00
-Over 64 thru 128 Kbps	XAFRD	31.00	50.00
-Over 128 thru 256 Kbps	XAFRE	61.00	50.00
-Over 256 thru 384 Kbps	XAFRF	85.00	50.00
-Over 384 thru 512 Kbps	XAFRG	103.00	50.00
-Over 512 thru 768 Kbps	XAFRH	143.00	50.00
-Over 768 Kbps thru 1.536 Mbps	XAFRJ	269.00	50.00
-Over 1.536 thru 4 Mbps	XAFRK	608.00	50.00
-Over 4 thru 10 Mbps	XAFRL	1463.00	50.00
-Over 10 thru 16 Mbps	XAFRM	1807.00	50.00
-Over 16 thru 34 Mbps	XAFRN	3689.00	50.00
-Over 34 thru 44.210 Mbps	XAFRO	4112.00	50.00

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21 - Fast Packet Access Services

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

21.4.10 Rates and Charges (Cont'd)

(C) Feature Change Charge

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

(D) Transfer of Service

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

-112 Kbps thru 1152 Kbps ¹	MS9F1	None	\$ 500.00
-3 Mbps thru 33 Mbps ²	MS9F3	None	\$ 500.00

(F) Primary MSFRS Connection Enablement/Change Charge

MS5EC	None	\$ 125.00
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(G) MultiLink Speed Change Charge³

-Speed Downgrade Charge, Per Connection	MS9SC	None	\$ 300.00
-Speed Upgrade Charge, Per Connection			
- 2 DS1 Speed Upgrade	MS9S2	None	\$ 1470.00
- 4 DS1 Speed Upgrade	MS9S4	None	\$ 2640.00
- 6 DS1 Speed Upgrade	MS9S6	None	\$ 3810.00

Note 1: 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.

Note 2: This nonrecurring charge applies per connection changed to either 1) another speed as defined above or 2) a 44.210 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.

Note 3: This nonrecurring charge applies per MSFRS MultiLink Connection requested to be changed to another speed MSFRS MultiLink Connection. Accordingly, the MultiLink Speed Change Charge applies in lieu of the Nonrecurring Charge specified in the MSFRS Connections and MSFRS Meetpoint Extended Connections sections.

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21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS)

21.5.1 General Description

Managed Shared ATM Service (MSATMS) provides total premises to switch connectivity to BellSouth's ATM network through User-to-Network Interfaces (UNI) on the ATM switch. MSATMS is a connection oriented data service based on ATM cell-based switching technology. MSATMS allows for the interconnection of ATM compatible customer equipment by providing efficient throughput at high speeds of transmission. MSATMS provides the switching of symmetrical duplex transmission of fixed length ATM cells.

MSATMS is a service under which the customer assigns to the Telephone Company the responsibility for facility design, engineering and routing of ATM services in a MSATMS Service Area. A MSATMS 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 MSATMS network using whatever facilities and switch placement designs within the Service Area that would best deliver quality service. MSATMS facilities are stand-alone facilities and may not be provisioned over a customer's higher capacity Special Access facilities.

The rate structure for MSATMS is comprised of MSATMS Connections, PVC Features and Optional Features.

The primary MSATMS rate element is a MSATMS Connection. This rate element provides the transport from the customer premises to the MSATMS network. MSATMS Connections provide transport to the BellSouth ATM network using network interfaces on the ATM switch configured as User-to-Network Interfaces (UNI). The MSATMS Connection provides this standard network interface on the BellSouth ATM switch to receive the ATM cells into the switch and verify that the addressing and traffic parameters are valid before relaying the ATM cells to the specified destination. All ATM switches within the MSATMS Service Area are linked together to form the MSATMS network which is accessible through a MSATMS Connection. MSATMS Connections are offered at transmission speeds of 1.536 Mbps, 3.072 Mbps, 4.608 Mbps, 6.144 Mbps, 7.680 Mbps, 9.216 Mbps, 10.752 Mbps, 12.288 Mbps, 18 Mbps, 24 Mbps, 30 Mbps, 36 Mbps, 44.210 Mbps, 149.760 Mbps and 599.040 Mbps.

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21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.1 General Description (Cont'd)

A customer requiring more than a DS1 but less than a DS3, can economically utilize Inverse Multiplexing for ATM Service (IMA) to achieve ATM speeds in DS1 multiples and thereby avoid subscribing to a DS3 user network interface. IMA is a physical layer technology in which a high-speed cell stream is broken down and transported across multiple DS1 links, then reconstructed back into the original stream at the ATM switch or other associated ATM equipment. IMA allows multiple DS1 links to be treated as a single, coherent ATM connection that can be managed as a linked group. IMA network interfaces are available at speeds in multiples of 1.536 Mbps (in quantities from 2 to 8) which results in ATM user network interfaces of 3.072 Mbps, 4.608 Mbps, 6.144 Mbps, 7.680 Mbps, 9.216 Mbps, 10.752 Mbps and 12.288 Mbps.

ATM Service IMA Customer Connection Speed	Quantity of DS1 Links Required
3.072 Mbps	2
4.608 Mbps	3
6.144 Mbps	4
7.680 Mbps	5
9.216 Mbps	6
10.752 Mbps	7
12.288 Mbps	8

Transmission speeds of 18 Mbps, 24 Mbps, 30 Mbps and 36 Mbps are provisioned utilizing 44.210 Mbps of transport bandwidth. Therefore, oversubscription is not allowed at speeds of 18 Mbps, 24 Mbps, 30 Mbps and 36 Mbps; the sum of the equivalent bandwidth for all permanent virtual connections must be less than or equal to the bandwidth of the specified speed. Additionally, Unspecified Bit Rate permanent virtual connections are not allowed on transmission speeds of 18 Mbps, 24 Mbps, 30 Mbps and 36 Mbps.

The appropriate rate for a MSATMS Connection is dependent upon the transmission speed requested and, unless specified otherwise herein this Section, whether or not the customer's serving wire center is in the MSFRS Service Area.

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21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.1 General Description (Cont'd)

A MSATMS Connection is appropriate for a customer whose premises serving wire center is inside the MSATMS Service Area. The appropriate rate depends upon the transmission speed requested.

Where a customer premises serving wire center is outside the MSATMS Service Area (but within the same LATA), a MSATMS Extended Connection (by transmission speed) 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 MSATMS Service Area). Six Extended Connections (by transmission speed) 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 MSATMS Extended Connection is available from Appendix A. If the serving wire center is outside a MSATMS 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 MSATMS Extended Connection.

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 1.536 Mbps, 44.210 Mbps, 149.760 Mbps, and 599.040 Mbps. Automatic Back-Up is available at transmission speeds of 149.760 Mbps and 599.400 Mbps. A MSATMS Back-Up Connection is specifically dedicated to providing back-up service and remains idle except when being utilized for back-up purposes. Back-Up Capability is not available for Inverse Multiplexing for ATM Service (IMA).

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

A primary MSATMS Connection may have only one MSATMS Back-Up Connection identified. A MSATMS Back-Up Connection may serve as the back-up for more than one primary MSATMS Connection.

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

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21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.1 General Description (Cont'd)

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

Automatic Back-Up Capability automatically initiates the transfer of virtual circuits from the primary MSATMS Connection to the specified MSATMS Back-Up Connection in the event the integrity fails on the primary MSATMS Connection. Once the primary MSATMS Connection is restored, at the direction of the authorized contact identified by the customer, the Company will subsequently redirect traffic from the MSATMS Back-Up Connection to the primary MSATMS Connection.

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

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

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

For Automatic Back-Up Capability, both the Automatic MSATMS Back-Up Connection and primary MSATMS Connection must be the same speed.

For Manual Back-Up Capability, it is strongly recommended that the size of the MSATMS Back-Up Connection must be the same size as the customer's largest primary MSATMS Connection. In the event that the customer chooses to utilize a MSATMS Back-Up Connection that is a lower speed than the primary MSATMS Connection, the Company cannot guarantee the sufficiency of the MSATMS 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 MSATMS Back-Up Connection, not all of the customer's virtual circuits will be provisioned to the MSATMS 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.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.1 General Description (Cont'd)

ATM Circuit Emulation Service (ATM CES) allows the interworking of ATM Service with time division multiplexing (TDM) services at a DS1 level. ATM Circuit Emulation allows the encapsulation of DS1 level TDM Service into ATM cells by using AAL1 adaptation. (Adaptation defines how higher layer information such as voice, data and video are placed in the payload of the 53-byte ATM cells.) ATM Circuit Emulation Service is provided to emulate a structured or unstructured DS1 service; when provided to emulate a structured DS1, service may be requested with or without Channel Associated Signaling (CAS).

ATM CES provides for the emulation of a TDM DS1 circuit through the ATM network so that the customer may interwork TDM with their ATM Service. The customer is responsible for the appropriate charges for such TDM services from other sections in addition to the charges specified herein for Managed Shared ATMS Service. Additionally, with ATM CES, a permanent virtual circuit (PVC) is only available with Constant Bit Rate (CBR).

An Unstructured versus Structured Circuit Emulation Connection is selected based upon the customer's specific DS1 needs to respectively interwork an unstructured versus DS1 TDM service with ATM Service, subject to availability. ATM Circuit Emulation Service is available at a transmission speed of 1.536 Mbps.

An unstructured Circuit Emulation Connection is provided to accept the termination of a full DS1 TDM bit stream from the customer's premises through a DS1 circuit. One Unstructured Circuit Emulation Connection is required per such DS1 TDM service. One ATM CBR PVC Segment with 2 Mbps CBR PVC Segment Bandwidth shall apply in association with the service originating from the TDM premises to the ATM switch. Additionally, standard charges apply for corresponding 2 Mbps ATM CBR PVC Segment to which this is mapped within the ATM switch; the associated MSATMS Connection must be a transmission speed or type which can accept the 2 Mbps CBR PVC.

A structured Circuit Emulation Connection accepts up to 24 DS0 terminations from a channelized DS1 bit stream(s) from the customer. The customer specifies the desired grouping of such DS0 terminations into ATM PVCs. An ATM CBR PVC Segment and Bandwidth Charges¹ apply for each PVC requested in association with the service originating from the TDM premises to the ATM switch. Additionally, the standard changes apply for the corresponding ATM CBR PVC Segments to which these are mapped within the ATM switch.

Note 1: PVC Segment Bandwidth charges shall be based upon the equivalent bandwidth required for each PVC requested. The transport of TDM service is ATM CES requires additional overhead, sometimes referred to as "cell tax". Consequently, the bandwidth required for a given PVC will be greater than the sum of the DS0 TDM bandwidth. For example, the PVC resulting from a single DS0 TDM bit stream of 64 Kpbs will be greater than 64 Kpbs as a result of equivalent bandwidth required for overhead and will require two increments of 64 Kbps bandwidth per CBV PVC Segment.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.1 General Description (Cont'd)

A Structured Circuit Emulation Connection is available with or without Channel Associated Signaling (CAS)¹ and is specified by the customer when service is ordered. CAS is necessary to support channelized DS1 TDM applications requiring Robbed Bit Signaling support.

Note 1: However, CAS may not be available at all ATM switch locations.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.1 General Description (Cont'd)

As MSATMS is a connection oriented service, to transfer information a virtual connection must be set up between two ATM network interfaces on an ATM switch(s). MSATMS supports ATM traffic via permanent virtual connections (PVCs). PVCs are established via the service provisioning process.

For MSATMS, the logical path between a customer's premises and a network interface on the ATM switch is referred to as a PVC segment. The mapping together of two PVC segments through the ATM switch network creates a PVC. This PVC is a logical channel representing the path from one premises associated with a MSATMS network interface, through the MSATMS switch network, to a premises associated with a different network interface on an ATM switch.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.1 General Description (Cont'd)

The following provides additional information on the terms used to describe the attributes of MSATMS with respect to the PVC Feature Charges that apply for PVC traffic. Information is provided regarding PVC segment, PVC service categories, PVC traffic parameters and PVC segment bandwidth.

(A) PVC Segment

For MSATMS, the PVC segment defines the logical path between a customer's premises and the network interface on a MSATMS switch. A PVC segment must be provisioned by the Telephone Company via service order activity and remain in place until requested to be removed by the customer. For MSATMS, two PVC segments are mapped together through a MSATMS switch(s) to create a PVC representing a virtual channel through the MSATMS network. For BellSouth MSATMS, an ATM PVC segment can be mapped with a Frame Relay DLCI to form a single Frame Relay to ATM Network Encapsulating 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 Segment¹:</u>
-Non-priority with 0 CIR	and	UBR
-Non-priority with >0 CIR	and	VBR-NRT
-Priority with >0 CIR	and	VBR-RT
-Non-priority with >0 CIR	and	Flat Rate VBR-NRT
-Priority with >0 CIR	and	Flat Rate VBR-RT

(B) PVC Service Categories

PVC service categories are established to support the service requirements of various categories of customer applications for PVCs. Four PVC service categories are available. The customer must specify the desired service category for each PVC that is ordered. MSATMS supports the following types of PVC service categories:

- (1) Constant Bit Rate (CBR): CBR allows for applications where a PVC requires special network timing requirements (i.e., strict PVC cell loss, cell delay and cell delay variation performance). For example, a CBR PVC would be utilized for applications requiring circuit emulation (i.e., a continuously operating logical channel) over MSATMS at transmission speeds comparable to DS1 and DS3. Such applications would include private line like service or voice type service where delays in transmission cannot be tolerated. The customer specifies the bandwidth required for each CBR PVC when it is ordered.
- (2) Variable Bit Rate - Real Time (VBR-RT) allows for applications where a PVC requires low cell delay variation. For example, VBR-RT would be utilized for applications such as variable bit rate video compression and packet voice and video that are somewhat tolerant of delay. The customer specifies the bandwidth required for each VBR-RT PVC when it is ordered.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.1 General Description (Cont'd)

(B) PVC Service Categories (Cont'd)

- (3) Variable Bit Rate - Non-Real Time (VBR-NRT): VBR-NRT allows for a PVC that can tolerate larger cell delay variations than VBR-RT. For example, VBR-NRT would be utilized for applications such as data file transfers. The customer specifies the bandwidth required for each VBR-NRT PVC when it is ordered.
- (4) Unspecified Bit Rate (UBR): UBR allows for a PVC where the user does not require one of the PVC service categories described in Sections 21.5.1(B)(1) through (3). For example, UBR would be utilized where the customer seeks a low cost method of transporting bursty data for non-critical applications that can tolerate delay variations. The Telephone Company will attempt to deliver all ATM cells received via UBR PVCs; however, network congestion will result in loss of ATM cells. (T)
- (5) Flat Rate VBR (Real Time and Non-Real Time): The ATM PVC is assigned appropriate settings that allow for high levels of burstiness to be treated as best effort and avoid discards unless actual congestion is encountered. For example, Flat Rate VBR could be utilized where the customer seeks to aggregate high volumes of Frame Relay services onto an ATM connection. (T)

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.1 General Description (Cont'd)(C) PVC Traffic Parameters

In accordance with the technical specifications for MSATMS set forth in the technical publications referenced herein Section 21.3.3, each non-UBR type PVC has a set of traffic parameters to describe the characteristics of the information being transmitted. Fixed values for these traffic parameters are derived from the PVC bandwidth specified by the customer for each PVC. These parameters are:

- (1) **Peak Cell Rate (PCR):** The PCR, in cells/second, is an upper bound on the source traffic that can be submitted on a BellSouth XAATMS network interface. PCR is a traffic parameter considered for both CBR and VBR service categories.

PCR is the only traffic parameter considered for a CBR PVC; the equivalent bandwidth per CBR PVC equals the PCR, in cells/second, times 0.000424.

PCR is one of three traffic parameters considered for a VBR PVC. For a VBR-RT PVC, PCR is 200% of the SCR described following. For VBR-NRT, PCR is 400% of the SCR described following.

For Flat Rate VBR(ATM to ATM PVC), the PCR is defined by the customer. For Flat Rate VBR(FR to ATM Encapsulating PVC), the PCR is automatically calculated based on the Frame Relay to ATM Network Interworking CIR, Burst Committed(Bc) and Burst Excess(Be).

- (2) **Sustainable Cell Rate (SCR):** The SCR, in cells/second, is an upper bound on the conforming average cell rate of a BellSouth XAATMS network interface over time.

SCR is a traffic parameter considered only for a VBR PVC. The equivalent bandwidth per VBR-RT PVC is equal to the SCR, in cells/second, times 0.000512. The bandwidth per VBR-NRT PVC is equal to the SCR, in cells/second, times 0.000804.

For Flat Rate VBR(ATM to ATM PVC), the SCR is defined by the customer. For Flat Rate VBR(FR to ATM Encapsulating PVC), the SCR is automatically calculated based on the Frame Relay to ATM Network Interworking CIR.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.1 General Description (Cont'd)(C) PVC Traffic Parameters (Cont'd)

- (3) Maximum Burst Size (MBS): MBS is the maximum number of consecutive cells that may be transmitted at the peak cell rate.

MBS is a traffic parameter considered for a VBR PVC. For a VBR-RT PVC, the MBS is fixed at 32 cells. For a VBR-NRT PVC, the MBS is fixed at 100 cells.

For Flat Rate VBR-RT (ATM to ATM PVC), the MBS is fixed at 32 cells/second. For a Flat Rate VBR-NRT (ATM to ATM PVC), the MBS is fixed at 100 cells/second.

For Flat Rate VBR-RT (FR to ATM Encapsulating PVC), the MBS is fixed at 32 cells/second. For a Flat Rate VBR-NRT (FR to ATM Encapsulating PVC), the MBS is fixed at 100 cells/second.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.1 General Description (Cont'd)(D) PVC Segment Bandwidth

A PVC Segment Bandwidth Charge is applicable for each CBR or VBR PVC segment. Such non-UBR PVC equivalent bandwidth represents the MSATMS network resources based on the PVC's traffic parameters. The PVC Segment Bandwidth Charge is derived by multiplying the PVC segment's equivalent bandwidth (calculation following) by the appropriate PVC Segment Bandwidth Charge (expressed in megabits or increments of 64 Kbps as described following).

The following calculations are applicable for determining non-UBR PVC segment bandwidth based upon the PVC category of service.

- (1) CBR equivalent bandwidth is equal to the PCR (cells/sec) times 0.000424. PCR is equal to increments of 64 Kbps of equivalent bandwidth times 150.943, or megabits of equivalent bandwidth times 2358.491.
- (2) VBR-RT equivalent bandwidth is equal to the SCR (cells/sec) times 0.000512. For VBR-RT, service, the PCR is fixed at 200% of the SCR and the MBS is fixed at 32 cells. SCR is equal to increments of 64 Kbps of equivalent bandwidth times 125.000, or megabits of equivalent bandwidth times 1953.125.
- (3) VBR-NRT equivalent bandwidth is equal to the SCR (cells/sec) times 0.000804. For VBR-NRT service, the PCR is fixed at 400% of the SCR (unless specified otherwise by the customer) and the MBS is fixed at 100 cells. SCR is equal to increments of 64 Kbps of equivalent bandwidth times 79.602, or megabits of equivalent bandwidth times 1243.781. VBR-NRT equivalent bandwidth, where the PCR to SCR ratio is specified by the customer, is determined using the formula in Section 1.3.4 of BellSouth Technical Reference 73585.

Where the result from the PVC segment equivalent bandwidth calculation is greater than 1.536 Mbps, the value is expressed in units of megabits and (if a fraction of a megabit) is rounded up to the next whole megabit. This bandwidth is multiplied by the Per Megabit Bandwidth Charge.

Where the result from the PVC segment equivalent bandwidth calculation is less than or equal to 1.536 Mbps, that number should be divided by .064 Mbps to arrive at a quantity of 64 Kbps increments. If the resulting number is not a whole number, it is rounded up to the next whole number and represents the number of 64 Kbps increments that should be utilized in the derivation of the PVC Segment Bandwidth Charge. This bandwidth is multiplied by the Per Increment of 64 Kbps Bandwidth Charge.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.1 General Description (Cont'd)(D) PVC Segment Bandwidth (Cont'd)

The following table illustrates the PVC segment equivalent bandwidth calculation for each non-UBR type PVC with 1 megabit of bandwidth.

PVC Service Category	Equivalent Bandwidth	Traffic Parameters		
		Peak Cell Rate (Cells/Sec)	Sustainable Cell Rate (Cells/Sec)	Maximum Burst Size (Cells)
CBR	1 Megabit	2358	N/A	N/A
VBR-RT	1 Megabit	3906	1953	32
VBR-NRT	1 Megabit	4975	1244	100

In LATAs where there are multiple MSATMS Service Areas, the customer may utilize a MSATMS Inter Service Area Link to have connectivity on a per PVC basis between MSATMS 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 MSATMS Service Areas. This Optional Feature is called an Inter Service Area Link. Information provided in Appendix A may be used to determine if two MSATMS 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.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.1 General Description (Cont'd)(E) Optional Features(1) Special Provisioning

MSATMS 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. Special Provisioning MSATMS Connection is available in 1.536 Mbps, 27 Mbps, 30 Mbps, 33 Mbps, 36 Mbps, 44.210 Mbps, 149.760 Mbps and 599.040 Mbps speeds. It is not available with ATM IMA and ATM Circuit Emulation Services.

MSATMS 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 MSATMS 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 MSATMS Special Provisioning is accomplished via two options: Different Switch Diversity and 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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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.1 Rate Categories (Cont'd)

(E) Optional Features (Cont'd)

(2) Automatic Protection Switching

The Automatic Protection Switching (APS) optional feature is provided in conjunction with the Special Provisioning optional feature and is available at the transmission speeds of 149.760 Mbps and 599.040 Mbps.

The APS optional feature provides one-to-one line protection switching for point-to-point optical facilities between network elements. Protection is furnished through the use of a switching arrangement that automatically switches to a spare line when the working line fails.

APS offers the option of having card and line protection by providing a secondary and diverse optical facility and secondary line cards for the network switches on both ends.

APS is only available for new MSATMS circuits installed on or after September 27, 2007.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.2 Service Description

(A) Installation of Service

Nonrecurring charges apply to each MSATMS Connection installed.

Nonrecurring charges for the MSATMS Connection elements are set forth in Section 21.5.10(A).

(T)

(B) Installation of Features

Nonrecurring charges apply to each PVC segment by PVC service category as set forth in Section 21.5.10(B) under PVC Features. Nonrecurring charges apply to Optional Features as set forth in Section 21.5.10(C).

(T)

(T)

(C) 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 Section 5.6(E). 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 Section 21.5.2(D) and Section 21.5.10(E).

(T)

(T)

(T)

- (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.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.2 Service Description (Cont'd)

(C) Service Rearrangements (Cont'd)

- (b) Requests for an existing MSATMS Connection to be rearranged to utilize a different MSATMS switch (i.e., to allow the customer to order features/functions not technically available out of the currently assigned MSATMS 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 MSATMS Connection to be provisioned off another MSATMS 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.

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21.5 Managed Shared ATM Service (MSATMS)

21.5.2 Service Description

(D) 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 Section 21.5.10(E) will apply. Charges are applied on a per Billing Account Number (BAN). (T) (D)

(E) Maintenance

In order to maintain the quality of MSATMS, the Telephone Company reserves the right to perform preventive maintenance and software updates to the network. This could result in MSATMS 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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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.2 Service Description (Cont'd)

(F) Service Level Agreements

Service Level Agreements (SLAs) provide the Telephone Company's service level commitments for specific aspects of its ATM network's performance. SLAs are only provided for customers with at least ten ATM UNIs. 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. (T)

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

- (1) SLA commitments are provided for Network Availability, Cell Delivery Rate and Cell Loss Ratio.
- (2) SLA credits are provided for missed commitments, except as specified otherwise in Sections 21.5.2(F)(3) and (4). 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 Telephone Company's calculation of its performance through the CNM-NVS system shall be the sole determinate of the Telephone Company's obligation to provide a credit for a missed performance commitment. (T)
- (3) SLA credits for missed commitments do not apply when any commitment is not met because the Telephone Company does not have control over the circumstances causing the commitment to be missed. Situations over which the Telephone Company does not have control can be defined as, but not limited to the following: (T)
 - 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 Telephone 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 Telephone Company's control, (T)

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.2 Service Description (Cont'd)

(F) Service Level Agreements

(3) (Cont'd)

- the customer's premises equipment,
- unavailability of the customer's facilities and/or equipment, and
- customer oversubscription of the ATM UNI beyond 200%, calculated as the total VBR equivalent bandwidth on all PVCs carried by the ATM UNI (after the CBR bandwidth is subtracted) may not be greater than 200% of the ATM UNI Connection speed.

- (4) 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 Section 21.5.2(E) and 2) customer requests for rearrangements which resulted in that service being unavailable as set forth in Sections 21.5.2(C) (a) and (b). 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. (T)

(5) Service Level Commitments

SLA commitments for the specific aspects of the ATM network's performance set forth in Section 21.5.2(F) (1) 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: (T)

(a) Network Availability Commitment: 99.9%

- The Network Availability commitment is provided on the customer's total ATM network. Network Availability will measure the percentage of time during a calendar month that the customer's ATM network is available.
- Network availability will be measured through the NVS system for the customer's total ATM network and for each individual ATM UNI for a whole calendar month.
- For the purpose of measuring Network Availability, times during which an ATM UNI is out of operation in association with maintenance windows (as set forth in Section 21.5.2(E)) and in association with situations over which the Telephone Company does not have control (as set forth in Section 21.5.2(F) (3)) are counted as "available" time. (T)

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.2 Service Description (Cont'd)(F) Service Level Agreements (Cont'd)

(5) Service Level Commitments (Cont'd)

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

- Total ATM Network - Network Availability: Network Availability for the customer's total network is calculated by subtracting the total unavailable time for all the ATM UNIs in a specific total calendar month, from the total available time for all the ATM UNIs in that specific total calendar month, and then dividing the difference by the total available time for all the ATM UNIs 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 ATM UNI whose specific individual Network Availability measurement is below 99.9%.
- Individual ATM UNI - Network Availability: Network Availability for an individual ATM UNI 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 ATM UNI is less than 99.9%, the SLA Network Availability credit set forth in 21.5.2(F)(6)(a) will then be issued on that specific individual ATM UNI.

(b) Cell Delivery Rate Commitment: by PVC Category of Service

- A Cell Delivery Rate commitment is provided on a per PVC basis for each ATM PVC with one of the following classes of service: CBR, VBR-RT and VBR-NRT. (A Cell Delivery Rate commitment is not provided for ATM PVCs with a UBR class of service).
- The specific commitment for Cell Delivery Rate for a PVC with a CBR class of service is 99.99%.
- The specific commitment for Cell Delivery Rate for a PVC with a VBR-RT class of service is 99.9%.
- The specific commitment for Cell Delivery Rate for a PVC with a VBR-NRT class of service is 99.5%.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.2 Service Description (Cont'd)

(F) Service Level Agreements (Cont'd)

(5) Service Level Commitments (Cont'd)

(b) Cell Delivery Rate Commitment: by PVC Category of Service (Cont'd)

- Through the CNM-NVS System, Cell Delivery Rate will measure the percentage of cells successfully delivered for a CBR or VBR PVC during a specific calendar month. The Cell Delivery Rate measures the quantity of cells received versus quantity of cells transmitted during a specific calendar month between the two ATM UNIs forming the PVC (i.e., the difference in cells transmitted versus received are considered "lost").
- The monthly Cell Delivery Rate for a qualifying PVC in a specific calendar month is determined by subtracting the total cells lost from the total cells transmitted, divided by the total cells transmitted. If the resulting percentage representing the percent of cells delivered for that PVC is less than the specific commitment for that PVC class of service, this commitment has been missed and the Cell Delivery Rate credit set forth in 21.5.2(F)(6)(b) will then be issued on this ATM PVC.

(c) Cell Loss Ratio Commitment: 1%

- A Cell Loss Ratio commitment is provided on a per PVC basis for every ATM PVC.
- Through the CNM-NVS system, Cell Loss Ratio will measure the percentage of transmitted cells not delivered (or lost) for a PVC during a specific calendar month. The Cell Loss Ratio measures the quantity of cells lost versus the quantity of cells transmitted during a specific calendar month between the two ATM UNIs forming the PVC (i.e., the difference in cells transmitted versus received are considered "lost").
- The monthly Cell Loss Ratio for a PVC in a specific calendar month is determined by dividing the quantity of cells lost (determined by subtracting the quantity of cells received from the quantity of cells transmitted) by the quantity of cells transmitted during that calendar month. If the resulting percentage representing the percent of cells lost for the PVC is greater than 1%, this commitment has been missed and the Cell Delivery Rate credit set forth in 21.5.2(F)(6)(c) will then be issued on this ATM PVC based upon its category of service.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.2 Service Description (Cont'd)

(F) Service Level Agreements (Cont'd)

(6) 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 Section 21.5.2(F).

(T)

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

(a) Network Availability SLA Credit¹:

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

(b) Cell Delivery Rate SLA Credit¹:

- This credit is applied per individual ATM PVC (i.e., PVC Segment pair forming the PVC) that does not meet the Cell Delivery Rate commitment.
- For each PVC not meeting this commitment for a specific calendar month, a credit equal to \$5.00 for each PVC Segment will be issued.

(c) Cell Loss Ratio SLA Credit¹:

- This credit is applied per individual ATM PVC (i.e., PVC Segment pair forming the PVC) that does not meet the Cell Loss Ratio commitment.
- For each PVC not meeting this commitment for a specific calendar month, a credit equal to \$5.00 for each PVC Segment 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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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.3 Technical Specifications

MSATMS services will conform to the service specifications and standards for MSATMS set forth in the following references:

- BellSouth Technical Reference 73585, "Asynchronous Transfer Mode (ATM) Network Interface and Performance Specifications".

The specifications set forth in BellSouth TR 73585 are in conformance with the following national standards for ATM services:

- ATM Forum documents, "ATM User-Network Interface Specification" (Versions 3.0 and 3.1).

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.4 Interface Specifications

In accordance with the interface specifications set forth in BellSouth TR 73585, the following is available with MSATMS:

ATM Cell-switched (UNI)

21.5.5 Acceptance Testing

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

21.5.6 Ordering Options and Conditions

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

21.5.7 Minimum Period of Service

The minimum period per MSATMS rate element selected is one month.

21.5.8 Rate Conditions

Rates and charges are specified in Section 21.5.10 for the ordering and provisioning of MSATMS. (T)

MSATMS is available for use with the Fast Packet Savings Plan subject to the conditions specified in Section 2.4.8(F). (T)

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.8 Rate Conditions (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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21.5.9 Rate Categories

The following rate categories apply to MSATMS:

(A) MSATMS Connections

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

A nonrecurring Primary MSATMS Connection Enablement/Change Charge provided in Section 21.5.10(G) is applicable: 1) per existing standard MSATMS Connection requested to be converted to a primary MSATMS Connection (i.e., to be back-up enabled), 2) per existing primary MSATMS Connection requested to be converted to a standard Network Interface (i.e., to disable the capability to be used with a MSATMS Back-Up Connection), and 3) per existing primary MSATMS Connection requested to be reassigned to work with a different MSATMS Back-Up Connection. The Primary MSATMS 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. (T)

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

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21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.9 Rate Categories (Cont'd)

(A) MSATMS Connections (Cont'd)

When a MSATMS customer moves (physically changes to another premises), the MSATMS 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 MSATMS customer request to change an existing MSATMS 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 MSATMS Connection. Nonrecurring charges shall apply for the different speed MSATMS Connection.

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

(B) MSATMS Meetpoint Extended Connections

MSATMS 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).

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21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.9 Rate Categories (Cont'd)(B) PVC Features

The PVC Features rate category provides for the ordering and provisioning of PVCs in association with a MSATMS Connection.

The rates for PVC Features may vary by PVC service category and are listed in Section 21.5.10 by applicable PVC service category.

- (1) PVC Segment Charge - A PVC Segment Charge applies for each PVC segment established over a network interface. A PVC Segment Charge applies under all PVC service categories.
- (2) PVC Segment Bandwidth Charge - A PVC Segment Bandwidth Charge is required per PVC segment established under the CBR or VBR PVC service category (but is not applicable to UBR, Flat Rate VBR-rt or VBR-nrt PVCs). PVC bandwidth represents MSATMS network resources required for the CBR or VBR PVC and is based on the CBR or VBR PVC's traffic parameters (i.e., PCR, SCR, and MBS). The total charge for this rate element per segment is determined by multiplying the CBR or VBR PVC segment bandwidth by the PVC Segment Bandwidth Charge, either Per Megabit or Per Increment of 64 Kbps (as appropriate per Section 21.5.1(D)).
- (3) UBR Service Activation Charge - A UBR Service Activation is applicable for each MSATMS Connection over which UBR PVC(s) will traverse. One charge is applicable per MSATMS Connection regardless of how many UBR PVCs will traverse that MSATMS Connection.
- (4) Flat Rate VBR-nrt Service Activation Charge - A Flat Rate VBR-nrt Service Activation is applicable for each network interface over which Flat Rate VBR-nrt ATM PVC(s) will traverse. One charge is applicable per network interface regardless of how many Flat Rate VBR-nrt ATM PVCs will traverse that network interface.
- (5) Flat Rate VBR-rt Service Activation Charge - A Flat Rate VBR-rt Service Activation is applicable for each network interface over which Flat Rate VBR-rt ATM PVC(s) will traverse. One charge is applicable per network interface regardless of how many Flat Rate VBR-rt ATM PVCs will traverse that network interface.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.9 Rate Categories (Cont'd)

(C) Optional Features

(1) Inter Service Area Link (ISAL)

The Telephone Company may establish facilities between MSATMS 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 MSATMS 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 bandwidth that must match the bandwidth of the PVC Segments 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 the ISAL Per PVC and ISAL PVC Bandwidth Charges from 21.5.10(C); these charges are applied per end of link. A nonrecurring charge (the ISAL Per PVC Charge) and a monthly rate (the ISAL PVC Bandwidth Charges) applies for each end of the Inter Service Area Link. These ISAL charges are in addition to the associated PVC Segment and PVC Segment Bandwidth charges from 21.5.10(B) that are applicable for the portions of this PVC in each service Area.

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21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.9 Rate Categories (Cont'd)

(C) Optional Features (Cont'd)

(2) Regional InterLATA PVC Extension

The Regional InterLATA PVC Extension is an Optional Feature that enables customers to extend a PVC between MSATMS Connections in two different LATAs.

The customer must request a Regional InterLATA PVC Extension between two LATAs within BellSouth's operating territory. Each Regional InterLATA PVC Extension has an associated bandwidth that must match the bandwidth of the PVC Segments associated with each end of the PVC. Each end of the PVC is at a customer premises.

The appropriate rates and charges for the Regional InterLATA PVC Extension are set forth in Section 21.5.10(C)(7) and are applied per end of extension. Both a nonrecurring charge (the Regional InterLATA PVC Extension Establishment Charge) and a monthly rate (the Regional InterLATA PVC Extension Bandwidth Charge) apply for each end of the extension. The Regional InterLATA PVC Extension charges are in addition to the associated PVC Segment and PVC Segment Bandwidth charges. (T)

A customer request to add a Regional InterLATA PVC Extension to an existing PVC arrangement shall be considered a disconnect of the existing PVC rate elements and a new connect of the new service elements (e.g., PVC Segment, PVC bandwidth, Regional InterLATA PVC Extension, etc.); nonrecurring charges shall apply.

Regional InterLATA PVC Extensions are technically not compatible with certain types of MSTMS Connections or certain types of MSATMS PVCs; these technical limitations are set forth in TR-73585.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.9 Rate Categories (Cont'd)(C) Optional Features (Cont'd)(3) Intelligent PVC

Intelligent PVC capability allows automatic rerouting on a per PVC basis within the ATM Service network. The Intelligent PVC feature is associated with a customer-specified three Segment PVC. With the Intelligent PVC feature, a PVC is established between an originating PVC Segment (referred to as the pivot endpoint) and a primary terminating PVC Segment (referred to as the primary endpoint). Cells from the originating PVC Segment (pivot endpoint) will automatically be rerouted to a secondary terminating PVC Segment (referred to as the secondary endpoint) if the ATM switch detects trouble associated with the primary terminating PVC Segment (primary endpoint). After such rerouting, the ATM switch will continue to monitor the signals from the primary endpoint and when the trouble is cleared, will automatically reroute the cells going to the secondary endpoint back to the primary endpoint. The BellSouth document TR-73585 provides more detailed technical information on how Intelligent PVC capability is provided.

To create an Intelligent PVC, the customer requests the mapping of three PVC Segments. One Intelligent PVC Charge (a recurring rate) applies per customer-specified arrangement of three PVC Segments and applies in addition to the appropriate nonrecurring and recurring charges for each of the three PVC Segments (i.e., the charges for each PVC Segment and PVC Segment bandwidth). The Intelligent PVC Charge shall be billed to the Network Interface associated with the PVC Segment which is the pivot endpoint of this PVC.

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

The pivot endpoint of an Intelligent PVC must be provisioned out of a Company-provided ATM 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.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.9 Rate Categories (Cont'd)

(D) Feature Change Charge

A Feature Change Charge applies for a customer request to change an existing MSATMS Feature from Section 21.5.10(B) or (C) for which there is no nonrecurring charge. (Examples: A Feature Change Charge applies when a customer requests a change in the PVC segment bandwidth required on an existing non-UBR PVC. A Feature Change Charge applies when a customer requests that UBR Service Activation be added to an existing MSATMS Connection which currently is not activated to carry UBR PVCs if the request does not also include an order for a UBR ATM PVC Segment which carries a nonrecurring charge. A customer request to change the service category of an existing CBR PVC to a VBR-RT PVC would not involve a Feature Change Charge but would be treated as a disconnect of the CBR PVC and a new request for a VBR-RT PVC for which there is a nonrecurring charge.)

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.9 Rate Categories (Cont'd)

(C) Feature Change Charge (Cont'd)

Only one Feature Change Charge applies per customer request that involves changes to multiple existing PVC's of the same PVC service category that are provisioned out of the same MSATMS switch. (For example, one Feature Change Charge would apply per customer request to change the PVC segment bandwidth associated with two existing CBR PVCs provisioned out of the same MSATMS switch.)

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

(D) Transfer of Service

When a change to the customer of record is requested, transfer of service charges, as set forth in Section 21.5.10(E) will apply. (T)
Charges are applied per 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.

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.9 Rate Categories (Cont'd)

The following provides an illustrative customer configuration to depict the application of the MSATMS 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 MSATMS Service Areas. Premises A and B are provisioned from Service Area 1; Premises C is provisioned from Service Area 2. Premises A requires a 149.760 Mbps UNI MSATMS Connection because its serving wire center is a SAP in Service Area 1. Premises B requires a 44.210 Mbps MSATMS UNI Extended Connection (Over 0 to 20 miles) because its serving wire center is outside the Service Area, 15 miles from the closest MSATMS Service Area Point. Premises C requires a 1.536 Mbps UNI MSATMS 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 4 Mbps VBT-RT PVC from Premises A to Premises B. "PVC II" is a UBR PVC from Premises A to Premises C. "PVC 3" is a 256 Kbps CBR 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>
MSATMS Connection:	149.760 Mbps UNI 149.760 Mbps UBR Svc Activation	44.210 Mbps UNI	1.536 Mbps UNI 1.536 Mbps UBR Svc Activation
-PVC I:	VBR-RT PVC Segment 4 Mbps PVC Bdwth	VBR-RT PVC Segment 4 Mbps PVC Bdwth	
-PVC II:	UBR PVC Segment UBR ISAL Per PVC UBR ISAL Bdwth		UBR PVC Segment UBR ISAL Per PVC UBR ISAL Bdwth
-PVC III:	CBR PVC Segment 256 Kbps CBR Bdwth CBR ISAL Per PVC (NRC) 256 Kbps CBR ISAL Bdwth		CBR PVC Segment 256 Kbps CBR Bdwth CBR ISAL Per PVC (NRC) 256 Kbps CBR ISAL Bdwth

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges

(A) MSATMS 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>
1.536 Mbps (BCOS : MS5X1)					
- MSATMS Connection	MS5TU	\$ 537.00	\$ 456.00	\$ 419.00	\$ 1,060.00
- MSATMS Extended Connection ¹	1L5QE	689.00	585.00	538.00	1,180.00
- MSATMS Extended Connection ²	1L5QE	803.00	682.00	626.00	1,180.00
- MSATMS Extended Connection ³	1L5QE	898.00	763.00	700.00	1,180.00
- MSATMS Extended Connection ⁴	1L5QE	1012.00	860.00	789.00	1,180.00
- MSATMS Extended Connection ⁵	1L5QE	1107.00	941.00	864.00	1,180.00
- MSATMS Extended Connection ⁶	1L5QE	1202.00	1021.00	938.00	1,180.00
3.072 Mbps (BCOS : MS5XM)					
- MSATMS Connection	MS537	\$ 777.00	\$ 694.00	\$ 610.00	\$ 1255.00
- MSATMS Extended Connection ¹	MS5EO	1001.00	862.00	743.00	1495.00
- MSATMS Extended Connection ²	MS5EO	1169.00	988.00	806.00	1495.00
- MSATMS Extended Connection ³	MS5EO	1309.00	1093.00	876.00	1495.00
- MSATMS Extended Connection ⁴	MS5EO	1477.00	1219.00	960.00	1495.00
- MSATMS Extended Connection ⁵	MS5EO	1617.00	1324.00	1030.00	1495.00
- MSATMS Extended Connection ⁶	MS5EO	1757.00	1429.00	1135.00	1495.00

- 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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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(A) MSATMS Connections (Cont'd)

(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>
4.608 Mbps (BCOS : MS5XM)					
- MSATMS Connection	MS546	\$1026.00	\$ 937.00	\$ 846.00	\$1720.00
- MSATMS Extended Connection ¹	MS5E4	1362.00	1189.00	1045.00	2080.00
- MSATMS Extended Connection ²	MS5E4	1614.00	1378.00)	1140.00	2080.00
- MSATMS Extended Connection ³	MS5E4	1824.00	1535.00	1245.00	2080.00
- MSATMS Extended Connection ⁴	MS5E4	2076.00	1724.00)	1371.00	2080.00
- MSATMS Extended Connection ⁵	MS5E4	2286.00	1882.00	1476.00	2080.00
- MSATMS Extended Connection ⁶	MS5E4	2496.00	2039.00	1633.00	2080.00
6.144 Mbps (BCOS : MS5XM)					
- MSATMS Connection	MS561	\$1274.00	\$1179.00	\$1081.00	\$2185.00
- MSATMS Extended Connection ¹	MS5E1	1722.00	1515.00	1347.00	2665.00
- MSATMS Extended Connection ²	MS5E1	2058.00	1767.00	1473.00	2665.00
- MSATMS Extended Connection ³	MS5E1	2338.00	1977.00	1613.00	2665.00
- MSATMS Extended Connection ⁴	MS5E1	2674.00	2229.00	1781.00	2665.00
- MSATMS Extended Connection ⁵	MS5E1	2954.00	2439.00	1921.00	2665.00
- MSATMS Extended Connection ⁶	MS5E1	3234.00	2649.00	2131.00	2665.00

- 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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21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(A) MSATMS Connections (Cont'd)

(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>
7.680 Mbps (BCOS : MS5XM)					
- MSATMS Connection	MS576	\$1593.00	\$1421.00	\$1316.00	\$2650.00
- MSATMS Extended Connection ¹	MS5E7	2153.00	1841.00	1649.00	3250.00
- MSATMS Extended Connection ²	MS5E7	2573.00	2156.00	1806.00	3250.00
- MSATMS Extended Connection ³	MS5E7	2923.00	2419.00	1981.00	3250.00
- MSATMS Extended Connection ⁴	MS5E7	3343.00	2734.00	2191.00	3250.00
- MSATMS Extended Connection ⁵	MS5E7	3693.00	2996.00	2366.00	3250.00
- MSATMS Extended Connection ⁶	MS5E7	4043.00	3259.00	2629.00	3250.00
9.216 Mbps (BCOS : MS5XM)					
- MSATMS Connection	MS592	\$1981.00	\$1663.00	\$1551.00	\$3115.00
- MSATMS Extended Connection ¹	MS5E9	2653.00	2167.00	1950.00	3835.00
- MSATMS Extended Connection ²	MS5E9	3157.00	2545.00	2139.00	3835.00
- MSATMS Extended Connection ³	MS5E9	3577.00	2860.00	2349.00	3835.00
- MSATMS Extended Connection ⁴	MS5E9	4081.00	3238.00	2601.00	3835.00
- MSATMS Extended Connection ⁵	MS5E9	4501.00	3553.00	2811.00	3835.00
- MSATMS Extended Connection ⁶	MS5E9	4921.00	3868.00	3126.00	3835.00

- 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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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(A) MSATMS Connections (Cont'd)

(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>
10.752 Mbps (BCOS : MS5XM)					
- MSATMS Connection	MS510	\$2300.00	\$1940.00	\$1786.00	\$3580.00
- MSATMS Extended Connection ¹	MS5EA	3084.00	2528.00	2252.00	4420.00
- MSATMS Extended Connection ²	MS5EA	3672.00	2969.00	2472.00	4420.00
- MSATMS Extended Connection ³	MS5EA	4162.00	3337.00	2717.00	4420.00
- MSATMS Extended Connection ⁴	MS5EA	4750.00	3778.00	3011.00	4420.00
- MSATMS Extended Connection ⁵	MS5EA	5240.00	4145.00	3256.00	4420.00
- MSATMS Extended Connection ⁶	MS5EA	5730.00	4513.00	3624.00	4420.00
12.288 Mbps (BCOS : MS5XM)					
- MSATMS Connection	MS512	\$2618.00	\$2218.00	\$2022.00	\$4045.00
- MSATMS Extended Connection ¹	MS5EB	3514.00	2890.00	2554.00	5005.00
- MSATMS Extended Connection ²	MS5EB	4186.00	3394.00	2806.00	5005.00
- MSATMS Extended Connection ³	MS5EB	4746.00	3814.00	3086.00	5005.00
- MSATMS Extended Connection ⁴	MS5EB	5418.00	4318.00	3422.00	5005.00
- MSATMS Extended Connection ⁵	MS5EB	5978.00	4738.00	3702.00	5005.00
- MSATMS Extended Connection ⁶	MS5EB	6538.00	5158.00	4122.00	5005.00

- 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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21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(A) MSATMS Connections (Cont'd)

(1) UNI

	<u>USOC</u>	<u>Month to Month</u>	<u>A</u> <u>12 to 24</u> <u>Months</u>	<u>B</u> <u>25 to 48</u> <u>Months</u>	<u>Nonrecurring</u> <u>Charges</u>
18 Mbps (BCOS : MS5XS)					
- MSATMS Connection	MS518	\$2730.00	\$2310.00	\$2100.00	\$2225.00
- MSATMS Extended Connection ¹	MS5E8	3938.00	3458.00	3185.00	2575.00
- MSATMS Extended Connection ²	MS5E8	4550.00	4046.00	3745.00	2575.00
- MSATMS Extended Connection ³	MS5E8	5047.00	4515.00	4197.00	2575.00
- MSATMS Extended Connection ⁴	MS5E8	5548.00	4988.00	4645.00	2575.00
- MSATMS Extended Connection ⁵	MS5E8	5807.00	5236.00	4879.00	2575.00
- MSATMS Extended Connection ⁶	MS5E8	5950.00	5380.00	5023.00	2575.00
24 Mbps (BCOS : MS5XS)					
- MSATMS Connection	MS524	\$2870.00	\$2380.00	\$2170.00	\$2225.00
- MSATMS Extended Connection ¹	MS5E2	4078.00	3528.00	3255.00	2575.00
- MSATMS Extended Connection ²	MS5E2	4690.00	4116.00	3815.00	2575.00
- MSATMS Extended Connection ³	MS5E2	5187.00	4585.00	4267.00	2575.00
- MSATMS Extended Connection ⁴	MS5E2	5688.00	5058.00	4715.00	2575.00
- MSATMS Extended Connection ⁵	MS5E2	5947.00	5306.00	4949.00	2575.00
- MSATMS Extended Connection ⁶	MS5E2	6090.00	5450.00	5093.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(A) MSATMS Connections (Cont'd)

(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>
30 Mbps (BCOS : MS5XS)					
- MSATMS Connection	MS530	\$3150.00	\$2590.00	\$2380.00	\$2225.00
- MSATMS Extended Connection ¹	MS5E3	4358.00	3738.00	3465.00	2575.00
- MSATMS Extended Connection ²	MS5E3	4970.00	4326.00	4025.00	2575.00
- MSATMS Extended Connection ³	MS5E3	5467.00	4795.00	4477.00	2575.00
- MSATMS Extended Connection ⁴	MS5E3	5968.00	5268.00	4925.00	2575.00
- MSATMS Extended Connection ⁵	MS5E3	6227.00	5460.00	5159.00	2575.00
- MSATMS Extended Connection ⁶	MS5E3	6370.00	5660.00	5303.00	2575.00
36 Mbps (BCOS : MS5XS)					
- MSATMS Connection	MS536	\$3360.00	\$2765.00	\$2555.00	\$2225.00
- MSATMS Extended Connection ¹	MS5E6	4568.00	3913.00	3640.00	2575.00
- MSATMS Extended Connection ²	MS5E6	5180.00	4501.00	4200.00	2575.00
- MSATMS Extended Connection ³	MS5E6	5677.00	4970.00	4652.00	2575.00
- MSATMS Extended Connection ⁴	MS5E6	6178.00	5443.00	5100.00	2575.00
- MSATMS Extended Connection ⁵	MS5E6	6437.00	5691.00	5334.00	2575.00
- MSATMS Extended Connection ⁶	MS5E6	6580.00	5835.00	5478.00	2575.00

- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(A) MSATMS Connections (Cont'd)

(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>
44.210 Mbps (BCOS : MS5XS)					
- MSATMS Connection	MS5TU	\$3500.00	\$2940.00	\$2695.00	\$2225.00
- MSATMS Extended Connection ¹	1L5QE	4708.00	4088.00	3780.00	2575.00
- MSATMS Extended Connection ²	1L5QE	5320.00	4676.00	4340.00	2575.00
- MSATMS Extended Connection ³	1L5QE	5817.00	5145.00	4792.00	2575.00
- MSATMS Extended Connection ⁴	1L5QE	6318.00	5618.00	5240.00	2575.00
- MSATMS Extended Connection ⁵	1L5QE	6577.00	5866.00	5474.00	2575.00
- MSATMS Extended Connection ⁶	1L5QE	6720.00	6010.00	5618.00	2575.00

- 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 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.

ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(A) MSATMS Connections

(1) UNI

		Month	A	B	Nonrecurring
		to	12 to 24	25 to 48	Charges
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
149.760 Mbps (BCOS: MS5X7)					
- MSATMS Connection	MS5TU	\$ 8,830.00	\$ 6850.00	\$ 6200.00	\$ 3,975.00
- MSATMS Extended Connection ¹	1L5QE	13,830.00	11460.00	10550.00	4,725.00
- MSATMS Extended Connection ²	1L5QE	15,615.00	13100.00	12100.00	4,725.00
- MSATMS Extended Connection ³	1L5QE	16,765.00	14160.00	13100.00	4,725.00
- MSATMS Extended Connection ⁴	1L5QE	17,970.00	15275.00	14150.00	4,725.00
- MSATMS Extended Connection ⁵	1L5QE	18,720.00	15965.00	14800.00	4,725.00
- MSATMS Extended Connection ⁶	1L5QE	22,055.00	19040.00	17700.00	4,725.00
599.040 Mbps (BCOS: MS5X9)					
- MSATMS Connection	MS5TU	20,675.00	\$16985.00	\$15400.00	8,350.00
- MSATMS Extended Connection ¹	1L5QE	33,180.00	28510.00	26275.00	9,850.00
- MSATMS Extended Connection ²	1L5QE	35,565.00	30710.00	28350.00	9,850.00
- MSATMS Extended Connection ³	1L5QE	37,750.00	32725.00	30250.00	9,850.00
- MSATMS Extended Connection ⁴	1L5QE	39,965.00	34765.00	32175.00	9,850.00
- MSATMS Extended Connection ⁵	1L5QE	42,205.00	36830.00	34125.00	9,850.00
- MSATMS Extended Connection ⁶	1L5QE	51,320.00	45230.00	42050.00	9,850.00

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- 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.

ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges

(A) MSATMS Connections

(2) Back-Up UNI

Manual Capability

	<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>
1.536 Mbps (BCOS : MS5X1)					
- MSATMS Connection	MS5BU	\$ 335.00	\$ 287.00	\$267.00	\$1060.00
- MSATMS Extended Connection ¹	MS5BV	411.00	345.00	314.00	1180.00
- MSATMS Extended Connection ²	MS5BV	468.00	389.00	335.00	1180.00
- MSATMS Extended Connection ³	MS5BV	516.00	425.00	359.00	1180.00
- MSATMS Extended Connection ⁴	MS5BV	573.00	468.00	389.00	1180.00
- MSATMS Extended Connection ⁵	MS5BV	620.00	504.00	412.00	1180.00
- MSATMS Extended Connection ⁶	MS5BV	668.00	541.00	448.00	1180.00
44.210 Mbps (BCOS : MS5XS)					
- MSATMS Connection	MS5BU	\$1750.00	\$1491.00	\$1375.00	\$2225.00
- MSATMS Extended Connection ¹	MS5BV	2354.00	2073.00	1929.00	2575.00
- MSATMS Extended Connection ²	MS5BV	2660.00	2372.00	2214.00	2575.00
- MSATMS Extended Connection ³	MS5BV	2909.00	2610.00	2444.00	2575.00
- MSATMS Extended Connection ⁴	MS5BV	3159.00	2850.00	2673.00	2575.00
- MSATMS Extended Connection ⁵	MS5BV	3289.00	2976.00	2793.00	2575.00
- MSATMS Extended Connection ⁶	MS5BV	3360.00	3049.00	2866.00	2575.00

- Note 1: Customer Premises SWC is over 0 to 20 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.

ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(A) MSATMS Connections (Cont'd)

(2) Back-UP UNI

Manual Capability

	<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>
149.760 Mbps (BCOS : MS5X7)					
- MSATMS Connection	MS5BU	\$ 7064.00	\$ 5476.00	\$ 4956.00	\$ 3975.00
- MSATMS Extended Connection ¹	MS5BV	11064.00	9162.00	8433.00	4725.00
- MSATMS Extended Connection ²	MS5BV	12492.00	10473.00	9672.00	4725.00
- MSATMS Extended Connection ³	MS5BV	13412.00	11320.00	10472.00	4725.00
- MSATMS Extended Connection ⁴	MS5BV	14376.00	12212.00	11311.00	4725.00
- MSATMS Extended Connection ⁵	MS5BV	14976.00	12763.00	11831.00	4725.00
- MSATMS Extended Connection ⁶	MS5BV	17644.00	15222.00	14149.00	4725.00
599.040 Mbps (BCOS : MS5X9)					
- MSATMS Connection	MS5BU	\$16540.00	\$13588.00	\$12320.00	\$8350.00
- MSATMS Extended Connection ¹	MS5BV	26544.00	22808.00	21020.00	9850.00
- MSATMS Extended Connection ²	MS5BV	28452.00	24568.00	22680.00	9850.00
- MSATMS Extended Connection ³	MS5BV	30200.00	26180.00	24200.00	9850.00
- MSATMS Extended Connection ⁴	MS5BV	31972.00	27812.00	25740.00	9850.00
- MSATMS Extended Connection ⁵	MS5BV	33764.00	29464.00	27300.00	9850.00
- MSATMS Extended Connection ⁶	MS5BV	41056.00	36184.00	33640.00	9850.00

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

ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(A) MSATMS Connections (Cont'd)

(2) Back-UP UNI

Automatic Capability

	<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>
149.760 Mbps (BCOS : MS5X7)					
- MSATMS Connection	MS5BW	\$ 7064.00	\$ 5476.00	\$ 4956.00	\$ 3975.00
- MSATMS Extended Connection ¹	MS5BX	11064.00	9162.00	8433.00	4725.00
- MSATMS Extended Connection ²	MS5BX	12492.00	10473.00	9672.00	4725.00
- MSATMS Extended Connection ³	MS5BX	13412.00	11320.00	10472.00	4725.00
- MSATMS Extended Connection ⁴	MS5BX	14376.00	12212.00	11311.00	4725.00
- MSATMS Extended Connection ⁵	MS5BX	14976.00	12763.00	11831.00	4725.00
- MSATMS Extended Connection ⁶	MS5BX	17644.00	15222.00	14149.00	4725.00
599.040 Mbps (BCOS : MS5X9)					
- MSATMS Connection	MS5BW	\$16540.00	\$13588.00	\$12320.00	\$8350.00
- MSATMS Extended Connection ¹	MS5BX	26544.00	22808.00	21020.00	9850.00
- MSATMS Extended Connection ²	MS5BX	28452.00	24568.00	22680.00	9850.00
- MSATMS Extended Connection ³	MS5BX	30200.00	26180.00	24200.00	9850.00
- MSATMS Extended Connection ⁴	MS5BX	31972.00	27812.00	25740.00	9850.00
- MSATMS Extended Connection ⁵	MS5BX	33764.00	29464.00	27300.00	9850.00
- MSATMS Extended Connection ⁶	MS5BX	41056.00	36184.00	33640.00	9850.00

- 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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ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(A) MSATMS Connections

(3) ATM Circuit Emulation Service

	<u>USOC</u>	<u>Month</u> to <u>Month</u>	<u>Plan A</u> 12 to 24 <u>Months</u>	<u>Plan B</u> 25 to 48 <u>Months</u>	<u>Nonrecurring</u> <u>Charges</u>
Structured 1.536 Mbps (BCOS: MS5XC)					
- MSATMS Connection	MS5CA	\$ 497.00	\$ 432.00	\$ 394.00	\$1060.00
- MSATMS Extended Connection ¹	MS5CB	\$ 672.00)	\$ 563.00	\$ 498.00	\$1180.00
- MSATMS Extended Connection ²	MS5CB	\$ 803.00	\$ 662.00	\$ 547.00	\$1180.00
- MSATMS Extended Connection ³	MS5CB	\$ 912.00	\$ 744.00	\$ 602.00	\$1180.00
- MSATMS Extended Connection ⁴	MS5CB	\$1043.00	\$ 843.00	\$ 668.00	\$1180.00
- MSATMS Extended Connection ⁵	MS5CB	\$1152.00	\$ 924.00	\$ 722.00	\$1180.00
- MSATMS Extended Connection ⁶	MS5CB	\$1262.00	\$1006.00	\$ 804.00	\$1180.00
Unstructured 1.536 Mbps (BCOS: MS5XC)					
- MSATMS Connection	MS5CQ	\$ 432.00	\$ 376.00	\$ 343.00	\$1060.00
- MSATMS Extended Connection ¹	MS5CR	\$ 584.00	\$ 490.00	\$ 433.00	\$1180.00
- MSATMS Extended Connection ²	MS5CR	\$ 698.00	\$ 576.00	\$ 476.00	\$1180.00
- MSATMS Extended Connection ³	MS5CR	\$ 793.00	\$ 647.00	\$ 523.00	\$1180.00
- MSATMS Extended Connection ⁴	MS5CR	\$ 907.00	\$ 732.00	\$ 580.00	\$1180.00
- MSATMS Extended Connection ⁵	MS5CR	\$1002.00	\$ 804.00	\$ 628.00	\$1180.00
- MSATMS Extended Connection ⁶	MS5CR	\$1097.00	\$ 875.00	\$ 699.00	\$1180.00

Note 1: Customer Premises SWC is over 0 to 20 miles outside Service Area.
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ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(B) MSATMS Meetpoint Extended Connections

(1) UNI

		Month to	A 12 to 24 Months	B 25 to 48 Months	Nonrecurring Charges
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
1.536 Mbps (BCOS : MS5X1)					
- MSATMS Meetpoint Extended Connection ¹	1L5QJ	\$ 660.00	\$ 561.00	\$ 515.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ²	1L5QJ	774.00	658.00	604.00	905.00
- MSATMS Meetpoint Extended Connection ³	1L5QJ	869.00	739.00	678.00	905.00
- MSATMS Meetpoint Extended Connection ⁴	1L5QJ	983.00	836.00	767.00	905.00
- MSATMS Meetpoint Extended Connection ⁵	1L5QJ	1078.00	917.00	841.00	905.00
- MSATMS Meetpoint Extended Connection ⁶	1L5QJ	1173.00	998.00	915.00	905.00
3.072 Mbps (BCOS : MS5XM)					
- MSATMS Meetpoint Extended Connection ¹	MS5MO	\$ 665.00	\$ 573.00	\$ 494.00	\$1220.00
- MSATMS Meetpoint Extended Connection ²	MS5MO	833.00	704.00	575.00	1220.00
- MSATMS Meetpoint Extended Connection ³	MS5MO	973.00	813.00	652.00	1220.00
- MSATMS Meetpoint Extended Connection ⁴	MS5MO	1141.00	942.00	742.00	1220.00
- MSATMS Meetpoint Extended Connection ⁵	MS5MO	1281.00	1049.00	816.00	1220.00
- MSATMS Meetpoint Extended Connection ⁶	MS5MO	1421.00	1156.00	918.00	1220.00

Note 1: Meetpoint is over 0 to 20 miles outside Service Area.
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 Note 6: Meetpoint is over 125 miles outside Service Area.

ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(B) MSATMS 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>
4.608 Mbps (BCOS : MS5XM)					
- MSATMS Meetpoint Extended Connection ¹	MS5M4	\$1026.00	\$895.00	\$788.00	\$1530.00
- MSATMS Meetpoint Extended Connection ²	MS5M4	1278.00	1091.00	902.00	\$1530.00
- MSATMS Meetpoint Extended Connection ³	MS5M4	1488.00	1252.00	1015.00	\$1530.00
- MSATMS Meetpoint Extended Connection ⁴	MS5M4	1740.00	1445.00	1149.00	\$1530.00
- MSATMS Meetpoint Extended Connection ⁵	MS5M4	1950.00	1605.00	1259.00	\$1530.00
- MSATMS Meetpoint Extended Connection ⁶	MS5M4	2160.00	1765.00	1413.00	\$1530.00
6.144 Mbps (BCOS : MS5XM)					
- MSATMS Meetpoint Extended Connection ¹	MS5M1	\$1386.00	\$1219.00	\$1084.00	\$1840.00
- MSATMS Meetpoint Extended Connection ²	MS5M1	1722.00	1478.00	1232.00	\$1840.00
- MSATMS Meetpoint Extended Connection ³	MS5M1	2002.00	1693.00	1381.00	\$1840.00
- MSATMS Meetpoint Extended Connection ⁴	MS5M1	2338.00	1949.00	1557.00	\$1840.00
- MSATMS Meetpoint Extended Connection ⁵	MS5M1	2618.00	2162.00	1702.00	\$1840.00
- MSATMS Meetpoint Extended Connection ⁶	MS5M1	2898.00	2374.00	1910.00	\$1840.00

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ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

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

(1) UNI (Cont'd)

	<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>
7.680 Mbps (BCOS : MS5XM)					
- MSATMS Meetpoint Extended Connection ¹	MS5M7	\$1817.00	\$1553.00	\$1391.00	\$2150.00
- MSATMS Meetpoint Extended Connection ²	MS5M7	2237.00	1875.00	1570.00	\$2150.00
- MSATMS Meetpoint Extended Connection ³	MS5M7	2587.00	2141.00	1754.00	\$2150.00
- MSATMS Meetpoint Extended Connection ⁴	MS5M7	3007.00	2458.00	1971.00	\$2150.00
- MSATMS Meetpoint Extended Connection ⁵	MS5M7	3357.00	2724.00	2150.00	\$2150.00
- MSATMS Meetpoint Extended Connection ⁶	MS5M7	3707.00	2988.00	2410.00	\$2150.00
9.216 Mbps (BCOS : MS5XM)					
- MSATMS Meetpoint Extended Connection ¹	MS5M9	\$2317.00	\$1893.00	\$1703.00	\$2185.00
- MSATMS Meetpoint Extended Connection ²	MS5M9	2821.00	2274.00	1912.00	\$2185.00
- MSATMS Meetpoint Extended Connection ³	MS5M9	3241.00	2591.00	2129.00	\$2185.00
- MSATMS Meetpoint Extended Connection ⁴	MS5M9	3745.00	2972.00	2387.00	\$2185.00
- MSATMS Meetpoint Extended Connection ⁵	MS5M9	4165.00	3288.00	2601.00	\$2185.00
- MSATMS Meetpoint Extended Connection ⁶	MS5M9	4585.00	3604.00	2913.00	\$2185.00

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ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

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

(1) UNI

	<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>
10.752 Mbps (BCOS : MS5XM)					
- MSATMS Meetpoint Extended Connection ¹	MS5MA	\$2748.00	\$2253.00	\$2007.00	\$2495.00
- MSATMS Meetpoint Extended Connection ²	MS5MA	3336.00	2698.00	2246.00	2495.00
- MSATMS Meetpoint Extended Connection ³	MS5MA	3826.00	3067.00	2498.00	2495.00
- MSATMS Meetpoint Extended Connection ⁴	MS5MA	4414.00	3511.00	2798.00	2495.00
- MSATMS Meetpoint Extended Connection ⁵	MS5MA	4904.00	3880.00	3048.00	2495.00
- MSATMS Meetpoint Extended Connection ⁶	MS5MA	5394.00	4248.00	3411.00	2495.00
12.288 Mbps (BCOS : MS5XM)					
- MSATMS Meetpoint Extended Connection ¹	MS5MB	\$3178.00	\$2613.00	\$2309.00	\$2805.00
- MSATMS Meetpoint Extended Connection ²	MS5MB	3850.00	3121.00	2580.00	2805.00
- MSATMS Meetpoint Extended Connection ³	MS5MB	4410.00	3544.00	2867.00	2805.00
- MSATMS Meetpoint Extended Connection ⁴	MS5MB	5082.00	4050.00	3209.00	2805.00
- MSATMS Meetpoint Extended Connection ⁵	MS5MB	5642.00	4471.00	3494.00	2805.00
- MSATMS Meetpoint Extended Connection ⁶	MS5MB	6202.00	4893.00	3910.00	2805.00

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

ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

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

(1) UNI

		Month to	A 12 to 24 Months	B 25 to 48 Months	Nonrecurrin g Charges
	<u>USOC</u>	<u>Month</u>	<u>Months</u>	<u>Months</u>	<u>Charges</u>
18 Mbps (BCOS : MS5XS)					
- MSATMS Meetpoint Extended Connection ¹	MS5M8	\$3602.00	\$3163.00	\$2913.00	\$1860.00
- MSATMS Meetpoint Extended Connection ²	MS5M8	4214.00	3747.00	3469.00	\$1860.00
- MSATMS Meetpoint Extended Connection ³	MS5M8	4711.00	4215.00	3917.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁴	MS5M8	5212.00	4685.00	4363.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁵	MS5M8	5471.00	4933.00	4597.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁶	MS5M8	5614.00	5076.00	4739.00	\$1860.00
24 Mbps (BCOS : MS5XS)					
- MSATMS Meetpoint Extended Connection ¹	MS5M2	\$3742.00	\$3238.00	\$2987.00	\$1860.00
- MSATMS Meetpoint Extended Connection ²	MS5M2	4354.00	3821.00	3542.00	\$1860.00
- MSATMS Meetpoint Extended Connection ³	MS5M2	4851.00	4288.00	3990.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁴	MS5M2	5352.00	4759.00	4436.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁵	MS5M2	5611.00	5006.00	4670.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁶	MS5M2	5754.00	5149.00	4812.00	\$1860.00

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ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

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

(1) UNI

	<u>USOC</u>	Month to <u>Month</u>	A 12 to 24 <u>Months</u>	B 25 to 48 <u>Months</u>	Nonrecurring <u>Charges</u>
30 Mbps (BCOS : MS5XS)					
- MSATMS Meetpoint Extended Connection ¹	MS5M3	\$4022.00	\$3450.00	\$3198.00	\$1860.00
- MSATMS Meetpoint Extended Connection ²	MS5M3	4634.00	4033.00	3753.00	\$1860.00
- MSATMS Meetpoint Extended Connection ³	MS5M3	5131.00	4500.00	4201.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁴	MS5M3	5632.00	4971.00	4647.00R	\$1860.00
- MSATMS Meetpoint Extended Connection ⁵	MS5M3	5891.00	5219.00	4880.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁶	MS5M3	6034.00	5361.00	5023.00	\$1860.00
36 Mbps (BCOS : MS5XS)					
- MSATMS Meetpoint Extended Connection ¹	MS5M6	\$4232.00	\$3625.00	\$3372.00	\$1860.00
- MSATMS Meetpoint Extended Connection ²	MS5M6	4844.00	4209.00	3928.00	\$1860.00
- MSATMS Meetpoint Extended Connection ³	MS5M6	5341.00	4676.00	4376.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁴	MS5M6	5842.00	5146.00	4822.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁵	MS5M6	6101.00	5394.00	5055.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁶	MS5M6	6244.00	5536.00	5198.00	\$1860.00

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ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

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

(1) UNI

	<u>USOC</u>	Month to <u>Month</u>	A 12 to 24 <u>Months</u>	B 25 to 48 <u>Months</u>	Nonrecurring <u>Charges</u>
44.210 Mbps (BCOS : MS5XS)					
- MSATMS Meetpoint Extended Connection ¹	1L5QJ	\$4372.00	\$3796.00	\$3511.00	\$ 1860.00
- MSATMS Meetpoint Extended Connection ²	1L5QJ	4984.00	4381.00	4066.00	1860.00
- MSATMS Meetpoint Extended Connection ³	1L5QJ	5481.00	4848.00	4515.00	1860.00
- MSATMS Meetpoint Extended Connection ⁴	1L5QJ	5982.00	5319.00	4961.00	1860.00
- MSATMS Meetpoint Extended Connection ⁵	1L5QJ	6241.00	5566.00	5194.00	1860.00
- MSATMS Meetpoint Extended Connection ⁶	1L5QJ	6384.00	5709.00	5337.00	1860.00

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ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

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

(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>
149.760 Mbps (BCOS : MS5X7)					
- MSATMS Meetpoint Extended Connection ¹	1L5QJ	\$12928.00	\$10713.00	\$ 9862.00	\$ 3490.00
- MSATMS Meetpoint Extended Connection ²	1L5QJ	14713.00	12343.00	11401.00	3490.00
- MSATMS Meetpoint Extended Connection ³	1L5QJ	15863.00	13374.00	12373.00	3490.00
- MSATMS Meetpoint Extended Connection ⁴	1L5QJ	17068.00	14508.00	13440.00	3490.00
- MSATMS Meetpoint Extended Connection ⁵	1L5QJ	17818.00	15196.00	14087.00	3490.00
- MSATMS Meetpoint Extended Connection ⁶	1L5QJ	21153.00	18261.00	16976.00	3490.00
599.040 Mbps (BCOS : MS5X9)					
- MSATMS Meetpoint Extended Connection ¹	1L5QJ	\$31743.00	\$27275.00	\$25137.00	\$ 8415.00
- MSATMS Meetpoint Extended Connection ²	1L5QJ	34128.00	29469.00	27205.00	8415.00
- MSATMS Meetpoint Extended Connection ³	1L5QJ	36313.00	31479.00	29098.00	8415.00
- MSATMS Meetpoint Extended Connection ⁴	1L5QJ	38528.00	33515.00	31018.00	8415.00
- MSATMS Meetpoint Extended Connection ⁵	1L5QJ	40768.00	35576.00	32963.00	8415.00
- MSATMS Meetpoint Extended Connection ⁶	1L5QJ	49883.00	43964.00	40873.00	8415.00

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ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(B) MSATMS Meetpoint Extended Connections

(2) Back-Up UNI

Manual Capability		Month	Plan A	Plan B	Nonrecurring Charges
		to	12 to 24	25 to 48	
		<u>Month</u>	<u>Months</u>	<u>Months</u>	
		<u>USOC</u>			
1.536 Mbps (BCOS : MS5X1)					
- MSATMS Meetpoint Extended Connection ¹	MS5BQ	\$ 397.00	\$ 333.00	\$ 302.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ²	MS5BQ	454.00	376.00	325.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ³	MS5BQ	502.00	413.00	350.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ⁴	MS5BQ	559.00	456.00	378.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ⁵	MS5BQ	606.00	492.00	403.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ⁶	MS5BQ	654.00	528.00	439.00	\$ 905.00
44.210 Mbps (BCOS : MS5XS)					
- MSATMS Meetpoint Extended Connection ¹	MS5BQ	\$2186.00	\$1926.00	\$1791.00	\$1860.00
- MSATMS Meetpoint Extended Connection ²	MS5BQ	2492.00	2222.00	2074.00	\$1860.00
- MSATMS Meetpoint Extended Connection ³	MS5BQ	2741.00	2459.00	2304.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁴	MS5BQ	2991.00	2698.00	2531.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁵	MS5BQ	3121.00	2824.00	2650.00	\$1860.00
- MSATMS Meetpoint Extended Connection ⁶	MS5BQ	3192.00	2896.00	2723.00	\$1860.00

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ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

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

(2) Back-Up UNI

Manual Capability

		Month to <u>Month</u>	Plan A 12 to 24 <u>Months</u>	Plan B 25 to 48 <u>Months</u>	Nonrecurring <u>Charges</u>
149.760 Mbps (BCOS: MS5X7)					
- MSATMS Meetpoint Extended Connection ¹	MS5BQ	\$10342.00	\$ 8564.00	\$ 7883.00	\$ 3490.00
- MSATMS Meetpoint Extended Connection ²	MS5BQ	11770.00	9868.00	9114.00	\$ 3490.00
- MSATMS Meetpoint Extended Connection ³	MS5BQ	12690.00	10692.00	9891.00	\$ 3490.00
- MSATMS Meetpoint Extended Connection ⁴	MS5BQ	13654.00	11599.00	10743.00	\$ 3490.00
- MSATMS Meetpoint Extended Connection ⁵	MS5BQ	14254.00	12148.00	11261.00	\$ 3490.00
- MSATMS Meetpoint Extended Connection ⁶	MS5BQ	16922.00	14599.00	13570.00	\$ 3490.00
599.040 Mbps (BCOS: MS5X9)					
- MSATMS Meetpoint Extended Connection ¹	MS5BQ	\$25394.00	\$21820.00	\$20110.00	\$ 8415.00
- MSATMS Meetpoint Extended Connection ²	MS5BQ	27302.00	23575.00	21764.00	\$ 8415.00
- MSATMS Meetpoint Extended Connection ³	MS5BQ	29050.00	25183.00	23279.00	\$ 8415.00
- MSATMS Meetpoint Extended Connection ⁴	MS5BQ	30822.00	26812.00	24814.00	\$ 8415.00
- MSATMS Meetpoint Extended Connection ⁵	MS5BQ	32614.00	28461.00	26370.00	\$ 8415.00
- MSATMS Meetpoint Extended Connection ⁶	MS5BQ	39906.00	35171.00	32698.00	\$ 8415.00

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ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

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

(2) Back-Up UNI

Automatic Capability

		Month to Month	Plan A 12 to 24 Months	Plan B 25 to 48 Months	Nonrecurring Charges
149.760 Mbps (BCOS: MS5X7)					
- MSATMS Meetpoint Extended Connection ¹	MS5BR	\$10342.00	\$ 8564.00	\$ 7883.00	\$ 3490.00
- MSATMS Meetpoint Extended Connection ²	MS5BR	11770.00	9868.00	9114.00	\$ 3490.00
- MSATMS Meetpoint Extended Connection ³	MS5BR	12690.00	10692.00	9891.00	\$ 3490.00
- MSATMS Meetpoint Extended Connection ⁴	MS5BR	13654.00	11599.00	10743.00	\$ 3490.00
- MSATMS Meetpoint Extended Connection ⁵	MS5BR	14254.00	12148.00	11261.00	\$ 3490.00
- MSATMS Meetpoint Extended Connection ⁶	MS5BR	16922.00	14599.00	13570.00	\$ 3490.00
599.040 Mbps (BCOS: MS5X9)					
- MSATMS Meetpoint Extended Connection ¹	MS5BR	\$25394.00	\$21820.00	\$20110.00	\$ 8415.00
- MSATMS Meetpoint Extended Connection ²	MS5BR	27302.00	23575.00	21764.00	\$ 8415.00
- MSATMS Meetpoint Extended Connection ³	MS5BR	29050.00	25183.00	23279.00	\$ 8415.00
- MSATMS Meetpoint Extended Connection ⁴	MS5BR	30822.00	26812.00	24814.00	\$ 8415.00
- MSATMS Meetpoint Extended Connection ⁵	MS5BR	32614.00	28461.00	26370.00	\$ 8415.00
- MSATMS Meetpoint Extended Connection ⁶	MS5BR	39906.00	35171.00	32698.00	\$ 8415.00

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CCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

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

(3) ATM Circuit Emulation Service

	<u>USOC</u>	<u>Month</u> to <u>Month</u>	<u>Plan A</u> 12 to 24 <u>Months</u>	<u>Plan B</u> 25 to 48 <u>Months</u>	<u>Nonrecurring</u> <u>Charges</u>
Structured 1.536 Mbps (BCOS: MS5XC)					
- MSATMS Meetpoint Extended Connection ¹	MS5CC	\$ 639.00	\$ 531.00	\$ 466.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ²	MS5CC	\$ 770.00	\$ 629.00	\$ 515.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ³	MS5CC	\$ 880.00	\$ 712.00	\$ 569.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ⁴	MS5CC	\$1011.00	\$ 809.00	\$ 635.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ⁵	MS5CC	\$1120.00	\$ 891.00	\$ 690.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ⁶	MS5CC	\$1229.00	\$974.00	\$ 771.00	\$ 905.00
Unstructured 1.536 Mbps (BCOS: MS5XC)					
- MSATMS Meetpoint Extended Connection ¹	MS5CS	\$ 556.00	\$ 462.00	\$ 405.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ²	MS5CS	\$ 670.00	\$ 547.00	\$ 447.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ³	MS5CS	\$ 765.00	\$ 618.00	\$ 495.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ⁴	MS5CS	\$ 879.00	\$ 704.00	\$ 552.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ⁵	MS5CS	\$ 974.00	\$ 775.00	\$ 599.00	\$ 905.00
- MSATMS Meetpoint Extended Connection ⁶	MS5CS	\$1069.00	\$ 846.00	\$ 671.00	\$ 905.00

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ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)21.5.10 Rates and Charges (Cont'd)

(B) PVC Features for MSATMS Service

	<u>USOC</u>	<u>Month to Month</u>	<u>Nonrecurring Charges</u>
(1) CBR PVC Service Category			
-PVC Segment Charge, plus			
-Per Standard PVC Segment	XAACS	\$ 5.00	\$ 70.00
-Per Pivot PVC Segment ¹	XAACT	5.00	70.00
-Per Primary PVC Segment ¹	XAACU	5.00	70.00
-Per Secondary PVC Segment ¹	XAACV	5.00	70.00
-Bandwidth Charge (Per Segment)			
-Per Megabit, or	XAACM	25.00	None
-Per Increment of 64 Kbps	XAACK	1.60	None
(2) VBR-RT PVC Service Category			
-PVC Segment Charge, plus			
-Per Standard PVC Segment	XAAVS	5.00	70.00
-Per Pivot PVC Segment ¹	XAAVT	5.00	70.00
-Per Primary PVC Segment ¹	XAAVU	5.00	70.00
-Per Secondary PVC Segment ¹	XAAVV	5.00	70.00
-Bandwidth Charge (Per Segment)			
-Per Megabit, or	XAAVM	25.00	None
-Per Increment of 64 Kbps	XAAVK	1.60	None
(3) VBR-NRT PVC Service Category			
-PVC Segment Charge, plus			
-Per Standard PVC Segment	XAANS	5.00	70.00
-Per Pivot PVC Segment ¹	XAANT	5.00	70.00
-Per Primary PVC Segment ¹	XAANU	5.00	70.00
-Per Secondary PVC Segment ¹	XAANV	5.00	70.00
-Bandwidth Charge (Per Segment)			
-Per Megabit, or	XAANM	25.00	None
-Per Increment of 64 Kbps	XAANK	1.60	None

Note 1: Applicable to PVC Segments in an Intelligent PVC configuration.

ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(B) PVC Features for MSATMS Service

	<u>USOC</u>	<u>Month to Month</u>	<u>Nonrecurring Charges</u>
(4) UBR PVC Service Category			
-PVC Segment Charge, plus			
-Per Standard PVC Segment	XAAUS	\$ 5.00	\$ 70.00
-Per Pivot PVC Segment ¹	XAAUT	5.00	70.00
-Per Primary PVC Segment ¹	XAAUU	5.00	70.00
-Per Secondary PVC Segment ¹	XAAUV	5.00	70.00
-UBR Service Activation Charge			
-Per 1.536 Mbps MSATMS Connection	XAAA1	10.00	None
-Per IMA MSATMS Connection	XAAAC	130.00	None
-Per 44.210 Mbps MSATMS Connection	XAAA4	250.00	None
-Per 149.760 Mbps MSATMS Connection	XAAA7	750.00	None
-Per 599.040 Mbps MSATMS Connection	XAAA9	3,000.00	None

Note 1: Applicable to PVC Segments in an Intelligent PVC configuration.

ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(B) PVC Features for MSATMS Service

	<u>USOC</u>	<u>Month to Month</u>	<u>Nonrecurring Charges</u>
(5) Flat Rate VBR-nrt PVC Service Category			
-PVC Segment Charge, plus			
-Per Standard PVC Segment	XAAKN	\$ 10.00	\$ 70.00
-Per Pivot PVC Segment ¹	XAAK0	10.00	70.00
-Per Primary PVC Segment ¹	XAAKP	10.00	70.00
-Per Secondary PVC Segment ¹	XAAKQ	10.00	70.00
-VBR Service Activation Charge			
-Per 1.536 Mbps MSATMS Connection	XAAA1	10.00	None
-Per IMA MSATMS Connection	XAAAC	125.00	None
-Per Subrate T3 MSATMS Connection	XAAA3	250.00	None
-Per 44.210 Mbps MSATMS Connection	XAAA4	250.00	None
-Per 149.760 Mbps MSATMS Connection	XAAA7	750.00	None
-Per 599.040 Mbps MSATMS Connection	XAAA9	3000.00	None
(6) Flat Rate VBR-rt PVC Service Category			
-PVC Segment Charge, plus			
-Per Standard PVC Segment	XAAKR	20.00	70.00
-Per Pivot PVC Segment ¹	XAAKT	20.00	70.00
-Per Primary PVC Segment ¹	XAAKU	20.00	70.00
-Per Secondary PVC Segment ¹	XAAKV	20.00	70.00
-VBR Service Activation Charge			
-Per 1.536 Mbps MSATMS Connection	XAAA1	10.00	None
-Per IMA MSATMS Connection	XAAAC	125.00	None
-Per Subrate T3 MSATMS Connection	XAAA3	250.00	None
-Per 44.210 Mbps MSATMS Connection	XAAA4	250.00	None
-Per 149.760 Mbps MSATMS Connection	XAAA7	750.00	None
-Per 599.040 Mbps MSATMS Connection	XAAA9	3000.00	None

Note 1: Applicable to PVC Segments in an Intelligent PVC configuration.

ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(C) Optional Features

(1) MSATMS Inter Service Area Link (ISAL)

	<u>USOC</u>	<u>Month</u> to <u>Month</u>	<u>Nonrecurring</u> <u>Charges</u>
-Per PVC, Per End of Link, plus	MS5LE	None	\$ 35.00
CBR PVC Service Category			
ISAL Bandwidth Charge			
-Per Megabit, or	MS5CM	\$ 25.00	None
-Per Increment of 64 Kbps	MS5CK	1.60	None
VBR-RT PVC Service Category			
ISAL Bandwidth Charge			
-Per Megabit, or	MS5VM	\$ 25.00	None
-Per Increment of 64 Kbps	MS5VK	1.60	None
VBR-NRT PVC Service Category			
ISAL Bandwidth Charge			
-Per Megabit, or	MS5NM	\$ 25.00	None
-Per Increment of 64 Kbps	MS5NK	1.60	None
UBR PVC Service Category			
-UBR PVC ISAL Bandwidth Charge	MS5AE	\$ 25.00	None
Flat Rate VBR-rt PVC Service Category			
-Flat Rate VBR-rt PVC ISAL Bandwidth Charge	MS5FR	\$ 25.00	None
Flat Rate VBR-nrt PVC Service Category			
-Flat Rate VBR-nrt PVC ISAL Bandwidth Charge	MS5FN	\$ 25.00	None

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21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(C) Optional Features

(2) Regional InterLATA PVC Extension

	<u>USOC</u>	<u>Month to Month</u>	<u>Nonrecurring Charges</u>
Establishment Charge			
-Per PVC, Per End of Extension, plus	XAARQ	\$ None	\$ 50.00
CBR PVC Service Category:			
Regional InterLATA PVC Extension			
Bandwidth Charge			
-Per Megabit, or	XAARR	100.00	None
-Per Increment of 64 Kbps	XAARS	6.50	None
VBR-RT PVC Service Category:			
Regional InterLATA PVC Extension			
Bandwidth Charge			
-Per Megabit, or	XAART	100.00	None
-Per Increment of 64 Kbps	XAARU	6.50	None
VBR-NRT PVC Service Category:			
Regional InterLATA PVC Extension			
Bandwidth Charge			
-Per Megabit, or	XAARV	100.00	None
-Per Increment of 64 Kbps	XAARW	6.50	None
UBR PVC Service Category:			
-Regional InterLATA PVC Extension			
Bandwidth Charge			
	XAARX	100.00	None
Flat Rate VBR-rt PVC Service Category:			
-Regional InterLATA PVC Extension			
Bandwidth Charge			
	XAARY	100.00	None
Flat Rate VBR-nrt PVC Service Category:			
-Regional InterLATA PVC Extension			
Bandwidth Charge			
	XAARZ	100.00	None

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21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(C) Optional Features

(3) Special Provisioning UNI¹

	<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>
1.536 Mbps (BCOS : MS5X1)					
- MSATMS Connection	MS5DA	\$ 81.00	\$ 68.00	\$ 61.00	\$ 159.00
- MSATMS Extended Connection ²	MS5DB	135.00	114.00	101.00	159.00
18 Mbps (BCOS : MS5XS)					
- MSATMS Connection	MS5DA	410.00	348.00	307.00	334.00
- MSATMS Extended Connection ²	MS5DB	757.00	643.00	568.00	334.00
24 Mbps (BCOS : MS5XS)					
- MSATMS Connection	MS5DC	431.00	366.00	323.00	334.00
- MSATMS Extended Connection ²	MS5FC	778.00	662.00	584.00	334.00
30 Mbps (BCOS : MS5XS)					
- MSATMS Connection	MS5DD	473.00	402.00	354.00	334.00
- MSATMS Extended Connection ²	MS5FD	820.00	697.00	615.00	334.00
36 Mbps (BCOS : MS5XS)					
- MSATMS Connection	MS5DE	504.00	428.00	378.00	334.00
- MSATMS Extended Connection ²	MS5FE	852.00	724.00	638.00	334.00
44.210 Mbps (BCOS : MS5XS)					
- MSATMS Connection	MS5DF	525.00	447.00	394.00	334.00
- MSATMS Extended Connection ²	MS5FF	873.00	742.00	655.00	334.00
149.760 Mbps (BCOS : MS5X7)					
- MSATMS Connection	MS5DA	1325.00	1126.00	993.00	596.00
- MSATMS Extended Connection ²	MS5DB	2515.00	2138.00	1886.00	596.00
599.040 Mbps (BCOS : MS5X9)					
- MSATMS Connection	MS5DA	3101.00	2636.00	2326.00	1253.00
- MSATMS Extended Connection ²	MS5DB	5663.00	4813.00	4247.00	1253.00

Note 1: Special Provisioning charges are in addition to Standard or Primary MSATMS Connection charges.

Note 2: Customer Premises SWC outside Service Area.

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21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(C) Optional Features

(3) Special Provisioning UNI¹

	<u>USOC</u>	<u>Month</u> to <u>Month</u>	<u>Plan A</u> 12 to 24 <u>Months</u>	<u>Plan B</u> 25 to 48 <u>Months</u>	<u>Nonrecurring</u> <u>Charges</u>
1.536 Mbps (BCOS: MS5X1)					
- MSATMS Meetpoint Extended Connection ²	MS5GA	\$ 130.00	\$ 111.00	\$ 98.00	\$ 136.00
18 Mbps (BCOS: MS5XS)					
- MSATMS Meetpoint Extended Connection ²	MS5GA	707.00	601.00	530.00	279.00
24 Mbps (BCOS: MS5XS)					
- MSATMS Meetpoint Extended Connection ²	MS5GC	728.00	619.00	546.00	279.00
30 Mbps (BCOS: MS5XS)					
- MSATMS Meetpoint Extended Connection ²	MS5GD	770.00	655.00	578.00	279.00
36 Mbps (BCOS: MS5XS)					
- MSATMS Meetpoint Extended Connection ²	MS5GE	802.00	681.00	601.00	279.00
44.210 Mbps (BCOS: MS5XS)					
- MSATMS Meetpoint Extended Connection ²	MS5GF	823.00	699.00	617.00	279.00
149.760 Mbps (BCOS: MS5X7)					
- MSATMS Meetpoint Extended Connection ²	MS5GA	2379.00	2023.00	1785.00	524.00
599.040 Mbps (BCOS: MS5X9)					
- MSATMS Meetpoint Extended Connection ²	MS5GA	5447.00	4630.00	4085.00	1262.00

Note 1: Special Provisioning charges are in addition to Standard or Primary MSATMS Connection charges.

Note 2: Meetpoint is outside Service Area.

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21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(C) Optional Features

(4) Intelligent PVC Charge

-Per Intelligent PVC

<u>USOC</u>	<u>Month</u> to <u>Month</u>	<u>Nonrecurring</u> <u>Charges</u>
XAAFP	\$2.00	None

(5) Automatic Protection Switching

-149.760 Mbps
-599.040 Mbps

<u>USOC</u>	<u>Month</u> to <u>Month</u>	<u>Nonrecurring</u> <u>Charges</u>
XAAAP	\$433.80	\$940.71
XAAAP	\$433.80	\$940.71

ACCESS SERVICE

21 - Fast Packet Access Services

21.5 Managed Shared ATM Service (MSATMS) (Cont'd)

21.5.10 Rates and Charges (Cont'd)

(D) Feature Change Charge	<u>USOC</u>	Month to Month	Nonrecurring Charges
-Per Occurrence, Per Feature	XAAFC	None	\$ 75.00
(E) Transfer of Service			
-Per Billing Account Number	XAATF	None	\$ 75.00
(F) Fast Speed Change Charge ¹			
-18 Mbps thru 36 Mbps	MS5FS	None	\$ 500.00
(G) Primary MSATMS Connection			
Enablement/Change Charge	MS5EC	None	\$ 125.00

Note 1: This nonrecurring charge applies per connection between 18 Mbps and 36 Mbps requested to be changed to either 1) another speed between 18 Mbps and 36 Mbps or 2) a 44.210 Mbps connection. Accordingly, the Fast Speed Change Charge applies in lieu of the Nonrecurring Charge specified in the MSATMS Connections and MSATMS Meetpoint Extended Connections sections.

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21 - Fast Packet Access Services

21.6 BellSouth Customer Network Management - Network Visibility Service
(CNM-NVS)21.6.1 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 Exchange Access Asynchronous Transfer Mode Service (XAATMS) described in 21.3
- BellSouth Managed Shared Asynchronous Transfer Mode Service (MSATMS) described in 21.5

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 (a.k.a. BellSouth Exchange Access Frame Relay Service), XAATMS, MSFRS and MSATMS: 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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21 - Fast Packet Access Services

21.6 BellSouth Customer Network Management - Network Visibility Service
CNM-NVS (Cont'd)21.6.1 General Description (Cont'd)

Access to the BellSouth CNM-NVS graphical interface is available via a Web 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. 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 (a.k.a. BellSouth Exchange Access Frame Relay Service) and XAATMS Network Interfaces and the MSFRS and MSATMS 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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21 - Fast Packet Access Services

21.6 BellSouth Customer Network Management - Network Visibility Service
(CNM-NVS) (Cont'd)21.6.1 General Description (Cont'd)

CNM-NVS is available in two packages:

- 1) Fault Management and On Demand Statistics¹ 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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21 - Fast Packet Access Services

21.6 BellSouth Customer Network Management - Network Visibility Service
(CNM-NVS) (Cont'd)21.6.1 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 Guidebook.

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21 - Fast Packet Access Services

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

21.6.2 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 (a.k.a. BellSouth Exchange Access Frame Relay Service), XAATMS, MSFRS and MSATMS 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.

State	Scheduled Maintenance Days
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

21.6.3 Minimum Period of Service

The minimum period of service is one month.

21.6.4 Rate Conditions

- A. Rates and charges are specified in Section 21.6.6 for CNM-NVS. Unless specified otherwise, BellSouth CNM-NVS is available for use with the Fast Packet Savings Plan subject to the conditions provided in Section 2.4.8(F). (T) (T) (D)
- 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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21 - Fast Packet Access Services

21.6 BellSouth Customer Network Management - Network Visibility Service
(CNM-NVS) (Cont'd)21.6.5 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 Statistics¹
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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21 - Fast Packet Access Services

21.6 BellSouth Customer Network Management - Network Visibility Service
(CNM-NVS) (Cont'd)21.6.5 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.

- 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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21 - Fast Packet Access Services

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

21.6.6 Rates and Charges

(A) Service Establishment Charge

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

(B) Fault Management and On Demand Statistics¹
Per Network Interface or Connection

(1) XAFRS or MSFRS

	Nonrecurring Charge	Monthly Rate	USOC
(a) Per DS0	\$75.00	\$ 0.00	NVSFO
(b) Per DS1	\$75.00	\$ 0.00	NVSF1
(c) Per DS3	\$75.00	\$ 0.00	NVSF3

(2) XAATMS or MSATMS

(a) Per DS1	\$75.00	\$ 0.00	NVSA1
(b) Per DS3	\$75.00	\$ 0.00	NVSA3
(c) Per OC3	\$75.00	\$ 0.00	NVSAC
(d) Per OC12	\$75.00	\$ 0.00	NVSA2

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

(1) XAFRS or MSFRS

(a) Per DS0	\$75.00	\$ 0.00	NVSRO
(b) Per DS1	\$75.00	\$ 0.00	NVSRI
(c) Per DS3	\$75.00	\$ 0.00	NVSRI

(2) XAATMS or MSATMS

(a) Per DS1	\$75.00	\$ 0.00	NVST1
(b) Per DS3	\$75.00	\$ 0.00	NVST3
(c) Per OC3	\$75.00	\$ 0.00	NVSTC
(d) Per OC12	\$75.00	\$ 0.00	NVST2

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

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21 - Fast Packet Access Services

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

21.6.6 Rates and Charges (Cont'd)

(D) Subsequent Modification Charge

(1) Per Network Interface or Customer Connection

	<u>Nonrecurring Charge</u>	<u>USOC</u>
(a) Each	\$70.00	NVSSM

(E) Management Access Interface

(1) Web Interface

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>
(a) Each	\$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

	<u>Nonrecurring Charge</u>	<u>USOC</u>
(a) Each	\$100.00	NVSSC