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**Qwest Corporation**

**Catalog No. 2**

**Washington**

**ADVANCED  
COMMUNICATIONS  
SERVICES**

Effective: December 1, 2007

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**2. GENERAL REGULATIONS**

**2.1 UNDERTAKING OF THE COMPANY**

**2.1.3 LIABILITY (Cont'd)**

- E. The Company is not liable for any defacement of or damage to the premises of a customer resulting from the furnishing of any facilities by the Company on the premises or by the installation or removal when defacement or damage is not the result of negligence of the agents or employees of the Company.
- F. No license under patents (other than the limited license to use) is granted by the Company or shall be implied or arise by estoppel, with respect to any service offered under this Catalog. The Company will defend the customer against claims of patent infringement arising solely from the use by the customer of services offered under this Catalog and will indemnify such customer for any damages awarded based solely on such claims.
- G. The Company's failure to provide or maintain services under this Catalog shall be excused by labor difficulties, governmental orders, civil commotions, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control, subject to the Credit Allowance for a Service Interruption as set forth in 2.4.4, following.
- H. Customer Service Guarantee

The Customer Service Guarantee is designed to grant customers a credit if the Company fails to keep a Guaranteed Appointment or Guaranteed Commitment. The Customer Service Guarantee is administered as set forth in 2.2.2 of the Exchange and Network Services Catalog.

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**3. ORDER AND SERVICE MODIFICATIONS AND MISCELLANEOUS CHARGES**

**3.6 SPECIAL CONSTRUCTION (Cont'd)**

**C. Special Construction Agreements**

Customers requiring Special Construction enter into Special Construction agreements with the Company.

**3.7 MAINTENANCE OF FACILITIES**

Maintenance of Company facilities is initiated and furnished by the Company and is generally performed during the hours of 7 a.m. to 7 p.m., seven days a week. At a time agreeable to both the customer and the Company, Company facilities shall be available for maintenance purposes.

All ordinary expense of maintaining company provided facilities and service is borne by the Company. No credit allowance will be made for the period during which service is interrupted for such purpose. Additional engineering and labor are provided by the Company, as set forth in Private Line Transport Services Catalog, Section 4.

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**3.8 MAINTENANCE OF SERVICE**

When a customer reports service trouble to the Company, and a service visit is made, if the trouble is not found in Company equipment or facilities, the customer shall be responsible for payment of a Maintenance of Service Charge, as set forth in Private Line Transport Services Catalog, Section 4. If the trouble is later found to be due to a failure of Company equipment, services or systems, the related service visit(s) will result in no charge to the customer. Credit allowance will not apply for an interruption of a service due to the failure of equipment, services or systems that are not provided by the Company.

**3.9 ACCEPTANCE TESTING**

At the customer's request, the Company will, at service installation, cooperatively test the compliance of Advanced Communications Services with the appropriate service parameters set forth in technical publications listed in this Catalog, at no charge to the customer. Additional testing is provided by the Company, as set forth in Private Line Transport Services Catalog, Section 4.

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**5. FRAME RELAY SERVICE**

**5.1 DESCRIPTION**

**5.1.1 GENERAL**

Employing digital technology, Frame Relay Service (FRS) provides high speed access and throughput to and among Local Area Networks, as well as computers. Utilizing statistical multiplexing, FRS enables users to allocate circuit bandwidth to applications as needed, up to the maximum bandwidth purchased, rather than assigning fixed channels to specific applications. FRS supports transmission speeds up to 44.736 Mbps.

FRS requires the use of customer terminal equipment that functions as a multiplexer/bridge/router. This terminal equipment must be purchased separately from the FRS and must conform to Consultative Committee for International Telegraph and Telephone (CCITT) and American National Standards Institute (ANSI) standards set forth in technical publications listed in this Catalog under Reference to Technical Publications. The terminal equipment accumulates customer data and puts it into a frame relay format suitable for transmission over the Advanced Communications Services (ACS) Network.

FRS conforms to CCITT and ANSI standards set forth in technical publications listed in this Catalog under Reference to Technical Publications.

The furnishing of FRS, and the various levels of FRS, requires certain physical arrangements of the facilities of the Company and is subject to the availability of such facilities.

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**5. FRAME RELAY SERVICE**

**5.1 DESCRIPTION (Cont'd)**

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**5.1.2 SERVICE ELEMENTS**

A. Network Interface (NI)

The point at which a customer's data transmission first enters the network supporting FRS is the NI. It is the point of interconnection between Company communications facilities and customer terminal equipment.

B. Access Link

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For 4-Wire 56 kbps through 1.544 Mbps Frame Relay Service, FRS Access Links provide access to the ACS Frame Relay Network, connecting customer facilities at the network interface, or connecting other frame relay networks' facilities at the network interface with an Information Transfer service element. The 56 or 64 kbps Access Link utilizes the 56 or 64 kbps Information Transfer service element, and the 1.544 Mbps Access Link utilizes the 56 kbps through 1.544 Mbps Information Transfer service elements.

Frame Relay unidirectional polling is required on the Access Link when used in conjunction with User-To-Network Information Transfer. Frame Relay bidirectional polling is required on the Access Link when used in conjunction with the Network-To-Network Information Transfer.

Company-provided, private line transport facilities or other compatible facilities provided by another company, which has a point-of-presence in the Company central office from which FRS is provided, must be used to access 44.736 Mbps FRS.

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**5. FRAME RELAY SERVICE**

**5.1 DESCRIPTION**

**5.1.2 SERVICE ELEMENTS (Cont'd)**

C. Stand-Alone Access Link

A Stand-Alone Access Link connects customer facilities to frame relay service networks provided by service providers other than the Company. It does not connect to an ACS Frame Relay Network. A Stand-Alone Access Link requires uni-direction polling. Private Line transport mileage may be required in conjunction with a Stand-Alone Access Link in order to connect the customer serving wire center, or node, with the serving wire center, or node, of another frame relay service provider.

D. Port

In the ACS Network, ports are the physical entry points for Access Links and the originating and terminating points for Permanent Virtual Connections. Ports include the electronic equipment used in connecting these service elements to the ACS Network. On each port, a customer may allocate bandwidth to applications at customer-designated transmission speeds up to 56 or 64, 112 or 128, 224 or 256, 336 or 384, 448 or 512, 672 or 768 kbps, 1.544 Mbps, or 44.736 Mbps.

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**5. FRAME RELAY SERVICE**

**5.1 DESCRIPTION**

**5.1.2 SERVICE ELEMENTS (Cont'd)**

E. Service Point

ACS Network Ports are located at ACS Service Points - geographic locations designated by the Company where the ACS Network is to be accessed.

F. User-To-Network Information Transfer (UNIT)

The User-To-Network Information Transfer (UNIT) service element transfers information between the User-To-Network Interface (UNI) and the ACS Frame Relay Service Network.

User-To-Network Information Transfer provides the physical entry point into the ACS Network for Access Links. The UNIT includes the associated port, unidirectional Permanent Virtual Connections (PVCs) and ACS Frame Relay switching equipment. UNIT PVCs are provisioned at customer-selected Committed Information Rates (CIRs), and at port speeds, dependent upon the customer's data networking requirements. UNIT provides unidirectional polling between the customer's facilities and the ACS FRS Network.

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**5. FRAME RELAY SERVICE**

**5.1 DESCRIPTION**

**5.1.2 SERVICE ELEMENTS (Cont'd)**

**G. Network-To-Network Information Transfer (NNIT)**

Available on a 4-Wire basis only, the Network-To-Network Information Transfer (NNIT) service element transfers information between the ACS Frame Relay Service Network and another frame relay service network.

Network-To-Network Information Transfer provides the physical entry point into the ACS Network for Access Links. The NNIT includes the associated port, unidirectional Permanent Virtual Connections (PVCs) and ACS Frame Relay switching equipment. If the other frame relay service network's switch or facility is not in a location served by a Company serving wire center where an ACS FRS switch is located, private line transport charges will apply at rates set forth in Section 4 of the Private Line Transport Services Catalog. NNIT PVCs are provisioned at customer-selected Committed Information Rates (CIRs), and at port speeds, dependent upon the customer's data networking requirements. Detailed CIR information is set forth in technical publications listed in this Catalog under Reference to Technical Publications.

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NNIT provides bi-directional polling between the ACS FRS Network and another frame relay service network.

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**5. FRAME RELAY SERVICE**

**5.3 RATE REGULATIONS**

- A. 4-Wire FRS may be ordered on a month-to-month basis or for fixed periods of one, two, three, four, five, six or seven years. Pricing plans are further described in 2.4.5.
- B. A subsequent order to add FRS Access Link(s) to an existing fixed-period service pricing plan must be for one of the fixed-periods specified in A., preceding, or for the remainder of the existing fixed-period service pricing plan, provided the remainder of the existing plan is at least the minimum period for that plan, as set forth in 2.4.3. If the remaining term is less than the associated minimum period, the minimum term for the added Access Link(s) shall be the associated minimum period.
- C. A 4-Wire FRS Access Link is available as a component of FRS or as a stand-alone offering. When a Stand-Alone Access Link is ordered, transport mileage may apply, at rates set forth in Section 4 of the Private Line Transport Services Catalog. (T)
- D. A customer may access 4-Wire 56 kbps through 1.544 Mbps Frame Relay Service via an FRS Access Link or via Company-provided, digital, private line facilities. When a customer's serving wire center is not an FRS Service Point, the customer may utilize a combination of an FRS Access Link and Company-provided, digital, private line transport facilities to reach the nearest FRS Service Point. If a customer utilizes private line facilities, or private line transport with an FRS Access Link, to access FRS, the associated terms and conditions, rates and charges for such private line facilities shall apply in addition to the rates and charges associated with the FRS elements.

Company-provided, private line transport facilities or other compatible facilities provided by another company, which has a point-of-presence in the Company central office from which FRS is provided, must be used to access 44.736 Mbps FRS.

A customer utilizing private line facilities to access FRS would not incur a nonrecurring charge or monthly rate for a Frame Relay Access Link, but would incur all other monthly rates and nonrecurring charges normally associated with the ordering, installation and provisioning of FRS, as set forth in 5.4.

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**5. FRAME RELAY SERVICE**

**5.4 RATE ELEMENTS**

**5.4.1 GENERAL**

**A. Access Link**

A nonrecurring charge and monthly rate, both based on the speed of the Access Link (e.g., 56/64 kbps or 1.544 Mbps), apply per Access Link for each physical connection to the ACS Frame Relay Service Network.

**B. Stand-Alone Access Link**

A nonrecurring charge and a monthly rate, based on the speed of the Stand-Alone Access Link, apply per Stand-Alone Access Link for the physical connection between a customer's facilities and a frame relay service network provided by a service provider other than the Company. In addition to this rate element, transport mileage may apply, at rates set forth in Section 4 of the Private Line Transport Services Catalog.

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**C. Information Transfer (UNIT or NNIT)**

A monthly rate, based on the speed of the port and the number of PVCs assigned to the port, applies per port for each FRS Access Link or digital private line connection to the network supporting FRS.

- For 4-Wire FRS installations (except 44.736 Mbps-UNIT), a nonrecurring charge applies for each unidirectional PVC ordered on an FRS Port. For subsequent installations (order request after initial installations), a subsequent PVC nonrecurring order charge applies in addition to the per PVC nonrecurring charge when PVCs are added, PVC assignments or CIR is changed on existing PVC. In addition, private line transport charges may apply for NNIT, as set forth in 5.1.2.G.
- For 4-Wire 44.736 Mbps-UNIT installations, a "First PVC" nonrecurring charge applies for the first unidirectional PVC ordered on an FRS Port. An "Each Additional PVC" nonrecurring charge applies for each additional unidirectional PVC ordered on the same FRS Port as the first PVC. For subsequent installations (order request after initial installations), a subsequent nonrecurring order charge applies, in addition to the "Each Additional PVC" nonrecurring charge, when PVCs are added, PVC assignments are changed, or CIR is changed on an existing PVC.

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**9. LAN SWITCHING SERVICE**

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## 9. LAN SWITCHING SERVICE

### 9.1 DESCRIPTION

#### 9.1.1 GENERAL

LAN Switching Service (LSS) is a metropolitan-area and wide-area LAN interconnection service, which provides customers with native speed LAN interconnection. LSS provides a specific amount of bandwidth, and supports both point-to-point and multipoint between customer-designated locations.

LSS is a fully managed service that includes Company bridging equipment located on the customer site.

LSS is provided over 45 Mbps and 155 Mbps fiber optic facilities or equivalent technology.

LSS is available in LSS equipped wire centers, the locations are published in the Network Disclosure Announcement. Access options available include unprotected and protected LAN links and digital private line transport service. An LSS customer may request Special Facilities Routing (i.e., Diversity) as set forth in the Access Service Tariff Section 11.

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**9. LAN SWITCHING SERVICE**

**9.1 DESCRIPTION**

**9.1.1 GENERAL (Cont'd)**

End-to-end connectivity is accomplished by establishing virtual circuits between customer sites within the LSS network.

LSS conforms to standards set forth in LAN Switching Service PUB 77396, listed in this Catalog under Reference to Technical Publications.

LSS also supports LSS inter-working between two separate LSS networks and between LSS and ATM Service locations. The connection between the LSS/LSS or LSS/ATM Service locations is an ATM Virtual Channel Connection (VCC). VCCs are only available as Unspecified Bit Rate (UBR) for Monthly or fixed period service rate plans of 12, 24, 36, 48 and 60 Months.

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**10. PROMOTIONAL OFFERINGS**

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## 11. METRO OPTICAL ETHERNET (MOE)

### 11.1 DESCRIPTION

#### 11.1.1 GENERAL

Metro Optical Ethernet (MOE) Service is a flexible, easy-to-use transport service that uses established Ethernet transport technology. MOE allows customers to connect multiple enterprise locations within a service area using native Ethernet protocol. MOE is available over three distinct designs: Customer Premises, Central Office and Ethernet with Extended Transport (EwET).

Customer Premises MOE supports transmission speeds as low as 5 Mbps and up to 1 Gbps in increments of 10 Mbps from 10 to 100 Mbps, and in increments of 100 Mbps from 100 to 1,000 Mbps. Central Office MOE supports transmission speeds of 100 Mbps, 600 Mbps and 1,000 Mbps. EwET MOE supports transmission speeds as low as 5 Mbps and up to 40 Mbps.

A MOE customer may request Special Facilities Routing (i.e., Diversity and Avoidance) as set forth in the Access Service Tariff, Section 11.

Technical Specifications for MOE Service are delineated in Qwest Corporation Technical Publication PUB 77411, listed in this Catalog under Reference to Technical Publications.

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**11. METRO OPTICAL ETHERNET (MOE)**

**11.1 DESCRIPTION(Cont'd)**

**11.1.2 SERVICE ELEMENTS**

A. Network Interface (NI)

1. Customer Premises NI

The Company network interface is the point of interconnection between Company communications facilities and terminal equipment or other customer-provided facilities. The network interface is the point of demarcation on the customer's premises where the Company's responsibility for the provision of MOE Service ends.

2. Central Office NI

The Company network interface is the point of interconnection between Company-provided services within the same central office. The network interface is the point of demarcation in the Company's central office.

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**11. METRO OPTICAL ETHERNET (MOE)**

**11.1 DESCRIPTION**

**11.1.2 SERVICE ELEMENTS (Cont'd)**

B. Access Link

A MOE Access Link connects a customer facility at the Customer Premises NI to an Ethernet port on the MOE network with a standard optical or copper connection.

C. MOE Port

MOE Port is an Ethernet port that is the physical entry point to the shared Metro Optical Ethernet Network. Ethernet Virtual Circuits (EVC), originate and terminate on a MOE Port. Customers may choose to connect to an electrical 10/100 port or an electrical or optical 1,000 Mbps port on the Company network.

D. Bandwidth Profile

The Bandwidth Profile is provisioned over the MOE Port in three distinct designs:

- Customer Premises Bandwidth Profile is the standard MOE offering which uses the native Ethernet protocol to connect multiple enterprise locations with the customer's premises.
- Central Office Bandwidth Profile is a MOE offering that originates and terminates in the same central office for use with SST, GeoMax and SHNS Ethernet Ports.
- EwET Bandwidth Profile offers MOE outside the designated MOE service area via Ethernet with Extended Transport (EwET) using the EwET customer interface.

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**11. METRO OPTICAL ETHERNET (MOE)**

**11.1 DESCRIPTION (Cont'd)**

(M)

**11.2 GENERAL TERMS AND CONDITIONS**

In addition to the terms and conditions in Section 2 and Section 3 of this Catalog, the terms and conditions in this section also apply for MOE

- A. The provisioning of MOE contemplates the use of existing facilities. There may be occasions when MOE is not available due to facilities limitations, or when it may be necessary to construct facilities. If Special Construction is involved, the regulations as set forth in Section 3.6, preceding will apply.
- B. For MOE, the Company will secure equipment space furnished by the customer under the terms of 2.3.4. This space must be accessible exclusively to the Company, as if the Company is the lessee.

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**102. OBSOLETE GENERAL REGULATIONS**

(N)

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Payment Arrangements and Credit Allowances .....	1
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**102. OBSOLETE GENERAL REGULATIONS**

**102.4 PAYMENT ARRANGEMENTS AND CREDIT ALLOWANCES**

(N)

**102.4.3 MINIMUM PERIODS**

When a service is provided under a standard fixed-period service agreement, as set forth in Section 2.4.5, the minimum periods are as follows: three months for Frame Relay Service (FRS) and twelve months for Transparent LAN Service (TLS).

**102.4.5 VARIABLE TERM RATE PLANS**

**A. Fixed-Period Service Agreements**

Under a standard fixed-period service agreement, the customer may order service for the available term desired at the month-to-month rates for the service.

**B. Changes To Rate Plans**

Services provided under a standard fixed-period service agreement may be upgraded to a discounted fixed-period service agreement at any time without the customer incurring any nonrecurring or discontinuance charges.

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**103. OBSOLETE ORDER AND SERVICE MODIFICATIONS  
AND MISCELLANEOUS CHARGES**

(N)

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**103. OBSOLETE ORDER AND SERVICE MODIFICATIONS  
AND MISCELLANEOUS CHARGES**

**103.4 DISCONTINUANCE OF SERVICE**

(N)

**C. Standard Fixed-Period Service Agreement**

Should the customer choose to discontinue service provided under a standard fixed-period service agreement prior to the completion of the minimum service period, set forth in Section 2.4.3, a discontinuance charge will apply. The discontinuance charge is 100% of the customer's Minimum Billing Level for the remaining months of the minimum service periods, plus 10% of the customer's Minimum Billing Level for the remaining term of the fixed-period service agreement.

Should the customer choose to discontinue standard fixed-period service after the minimum service period but before the completion of a standard fixed-period service agreement, a nonrecurring discontinuance charge equal to 10% of the customer's Minimum Billing Level for the remaining portion of the fixed-period service agreement will apply. For example, a customer has a service which it chooses to discontinue after thirty-three months of a five-year (sixty-month) standard fixed-period service agreement. The discontinuance charge will be .10 multiplied by twenty-seven months, multiplied by the Minimum Billing Level for that service.

If by discontinuing a portion of its service provided under a standard fixed-period agreement, the customer's total monthly billing level falls below the customer's Minimum Billing Level, a nonrecurring discontinuance charge, as set forth preceding, will apply only to the portion of the service being discontinued.

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**104. OBSOLETE TRANSPARENT LAN SERVICE**

(N)

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**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.1 DESCRIPTION**

(N)

Services contained in this section are Grandfathered to existing customers and will not be provided as new items of service. Existing services will be subject to the following service limitations:

- A. Customers can add, rearrange and move, or continue to subscribe to Transparent LAN Service (TLS) on a month-to-month basis as specified, following, provided equipment and facilities are available.
- B. Customers with month-to-month service may continue to subscribe to TLS until April 30, 2002.
- C. Customers with a fixed service period of 1, 2, 3, 4, 5, 6, or 7 years, may complete the fixed service period. Customers with fixed service periods expiring between July 29, 2000 and July 31, 2001 may retain the service at month-to-month rates until April 30, 2002.

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**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.1 DESCRIPTION (Cont'd)**

(N)

**104.1.1 GENERAL**

Transparent LAN Service (TLS) is a high speed (1.544, 4, 10 or 16 Mbps), shared fiber optic transport service for the interconnection of Local Area Networks (LANs). TLS serves as a basic LAN extension for either Token Ring or Ethernet LANs. TLS provides a virtual private circuit that utilizes public transport.

The electrical signals provided by TLS at the network interface (NI) meet IEEE 802.3, IEEE 802.5, and/or DSX-1 signal requirements. These signals are put onto fiber optic facilities for transport to the network management equipment.

The network management information is used to maintain the network performance and integrity. Information such as bit error rate, broadcast retries, and circuit failures are passed to network monitoring equipment for analysis. The LAN signal is then forwarded to the opposite end of the link, where a mirror image of the process takes place. The service is bi-directional, providing interconnection in both directions. Time Division Multiplexing (TDM) separates customer data via time slots and allows multiple customers to share the same transport facilities.

TLS is suitable for data transmission only. It is provided only over fiber optic facilities, and can be provided on a point-to-point or, in certain instances, a multipoint basis, depending on how the Data Links are used by the customer.

TLS has working (primary) and protect (secondary) pairs of fibers for reliability. Should the primary fiber facilities fail, the service automatically switches to the secondary path fiber facilities in order to maintain a near continuous flow of data between locations. TLS conforms to standards set forth in technical publications listed in this Catalog under Reference to Technical Publications.

**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.1 DESCRIPTION (Cont'd)**

(N)

**104.1.2 SERVICE ELEMENTS**

**A. Data Link**

The Data Link provides the connection from a customer's terminal equipment, at the network interface, to the Company's network supporting TLS. A Data Link includes a network interface, the Network Node, and the related fiber optic facility. A customer may select a 4 or 16 Mbps Data Link for Token Ring, or a 10 Mbps Data Link for Ethernet. A customer may order T-1 (1.544 Mbps) Data Links with their Token Ring or Ethernet Data Links, for the same TLS configuration(s), or an existing TLS customer may order T-1 Data Links for the same location as their existing service. Each T-1 Data Link contains two T-1 ports.

**B. Network Interface**

A network interface is the point of interconnection on a customer's premises between Company communications facilities and customer terminal equipment.

**C. Network Node**

The Network Node is a piece of electronic equipment that serves as a multiplexer and converts the electrical signal presented by the LAN to optical signals.

**D. Inter-Ring Link**

The Inter-Ring Link is the transmission facility that connects like Data Links between Service Points. The maximum length of an Inter-Ring Link is twenty-five miles. The Inter-Ring Link connects the two Data Links of a point-to-point circuit, or multiple Data Links joined by a Multipoint Feature.

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**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.1 DESCRIPTION (Cont'd)**

(N)

**104.1.3 OPTIONAL FEATURES AND FUNCTIONS**

**A. Multipoint Feature**

This arrangement provides the ability to connect three or more Token Ring or Ethernet Data Links within the customer's same TLS network configuration. All Data Links connected on the same Multipoint Feature must be the same type and transmit data at the same speed; i.e., all 4 Mbps Token Ring or all 16 Mbps Token Ring or all 10 Mbps Ethernet Data Links. The Multipoint Feature is not available with T-1 Data Links.

A customer may have more than one Multipoint Feature for multiple Data Links at the same location; however, each Data Link may be associated with only one Multipoint Feature at that location.

**B. Data Link Fiber Diversity**

Data Link Fiber Diversity provides added reliability to TLS, protecting the customer from service interruptions caused by facility outages, e.g. cable cuts. This added protection is provided by ensuring that physically separate paths are used in the provisioning of the primary (working) fiber facilities and the secondary (protect) fiber facilities.

When Data Link Fiber Diversity is provided at a location in a customer's TLS configuration, the feature is required on all Data Links at that location.

Where possible, the Data Link Fiber Diversity feature will be provided using existing Company facilities. Where suitable facilities are not available, it may be necessary to construct such facilities. If Special Construction is required, the regulations set forth in 3.6 apply.



**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.1 DESCRIPTION**

**104.1.3 OPTIONAL FEATURES AND FUNCTIONS (Cont'd)**

**C. Inter-Ring Link Fiber Diversity**

Inter-Ring Link Fiber Diversity provides added reliability to TLS. Inter-Ring Link Fiber Diversity provides separate transmission facilities between two or more service points. In the event of a problem affecting the Inter-Ring portion of the TLS, the service automatically switches to the secondary (protect) Inter-Ring path, until the primary (working) service path is restored.

Where possible, the Inter-Ring Link Fiber Diversity feature will be provided using existing Company facilities. Where suitable facilities are not available, it may be necessary to construct such facilities. If Special Construction is required, the regulations set forth in 3.6 apply.

**D. Interface Redundancy**

Interface Redundancy provides a back-up interface for Token Ring, Ethernet, or T-1 Data Link interfaces.

If a Data Link interface fails, and Interface Redundancy of the same service type has been purchased, the Interface Redundancy will become the acting Data Link interface; e.g., if a 16 Mbps Data Link interface fails, a 16 Mbps Interface Redundancy would provide hot back-up. A single Interface Redundancy may be used to back up one or more similar Data Link interfaces at the same location, but it can only provide hot back-up to one interface at a time.

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**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.2 GENERAL TERMS AND CONDITIONS**

In addition to the terms and conditions in Section 2 and Section 3 of this Catalog, the terms and conditions in this section also apply for Transparent LAN Service (TLS).

- A. TLS is available on a two-point or multipoint basis, twenty-four hours per day, seven days per week.
- B. The number of Data Links in a multipoint arrangement is limited by the technological capabilities of the Network Node. There can be no more than fifteen Data Links in a multipoint arrangement.
- C. TLS utilizes public, shared transport to provide a virtual private circuit arrangement. A non-shared TLS arrangement is not available.
- D. TLS can only be provided where fiber optic facilities and equipment are available.
- E. For TLS, equipment space furnished by the customer under the terms of 2.3.4 will be secured by the Company. This space must be accessible exclusively to the Company, as if the Company were the lessee.
- F. The actual facility mileage for a TLS circuit, including the distance between the customer's premises and the service point for the premises and the distance between service points, if applicable, is dependent upon the TLS technology deployed. The maximum TLS circuit distance is seventy-five miles.

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**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.3 RATE REGULATIONS**

- A. The initial order for a Transparent LAN Service (TLS) must be for a fixed service period of one, two, three, four, five, six or seven years, as set forth in 2.4.5. At the end of the initial service period, a customer may elect the month-to-month option or any of the service periods specified preceding.
- B. A subsequent order to add any TLS service element or optional feature to an existing TLS must be for a fixed period of one, two, three, four, five, six or seven years, or for the remainder of the customer's existing fixed-period service pricing plan. The minimum service period for additional TLS service element or optional features is twelve months.

**104.4 RATE ELEMENTS**

**104.4.1 GENERAL**

A. Data Link

A nonrecurring charge applies per Data Link ordered on a TLS Network Node. A monthly rate also applies per Data Link.

B. Inter-Ring Link

The monthly rate for the Inter-Ring Link is based on the airline miles between Data Link Primary Service Points. A fixed rate and a rate per mile apply for each Inter-Ring Link. Fractions of a mile are rounded up to the next mile.

**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.4 RATE ELEMENTS (Cont'd)**

(N)

**104.4.2 OPTIONAL FEATURES AND FUNCTIONS**

**A. Multipoint Feature**

A monthly rate applies for each Multipoint Feature.

**B. Data Link Fiber Diversity**

A monthly rate applies for each Data Link provided with Fiber Diversity. If not installed at the same time as the Data Link, a nonrecurring charge also applies. When Data Link Fiber Diversity is provided at a location in a customer's TLS configuration, the feature is required on all Data Links at that location.

**C. Inter-Ring Link Fiber Diversity**

The monthly rate for Inter-Ring Link Fiber Diversity is based on the difference in airline miles between the primary Service Points and the alternate Service Points utilized in the secondary (protect) path. A fixed rate and a rate per mile apply. Fractions of a mile are rounded up to the next mile. If the distance between primary and alternate Service Points is the same, only the fixed rate applies.

**D. Interface Redundancy**

A nonrecurring charge and a monthly rate apply for each Interface Redundancy feature.

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**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.5 RATES AND CHARGES**

(N)

**104.5.1 GENERAL**

A. Data Links

	<b>USOC</b>	<b>NONRECURRING CHARGE</b>
Per Data Link	NR9DL	\$700.00
	<b>USOC</b>	<b>MONTHLY RATE</b>
Per Data Link		
• Month-to-Month[1]		
- T-1, 1.544 Mbps[2]	DKJUX	\$156.00
- Token Ring, 4 Mbps	DKGAX	750.00
- Token Ring, 16 Mbps	DKGBX	750.00
- Ethernet, 10 Mbps	DKGCX	750.00
• 1-Year		
- T-1, 1.544 Mbps[2]	DKJVX	156.00
- Token Ring, 4 Mbps	DKGDX	750.00
- Token Ring, 16 Mbps	DKGEX	750.00
- Ethernet 10, Mbps	DKGFX	750.00
• 2-Year		
- T-1, 1.544 Mbps[2]	DKJWX	141.00
- Token Ring, 4 Mbps	DKGHX	675.00
- Token Ring, 16 Mbps	DKGJX	675.00
- Ethernet 10, Mbps	DKGKX	675.00

[1] Month-to-Month Service is only available following the completion of an initial fixed-period service plan.

[2] T-1 Data Links must be ordered with Token Ring or Ethernet Data Links, or may be added to an existing TLS Token Ring or Ethernet configuration. Month-to-Month TLS T-1 Data Link Service is only available following the completion of at least one year of T-1 Data Link Service.

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**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.5 RATES AND CHARGES**

**104.5.1 GENERAL**

A. Data Links (Cont'd)

(N)

Per Data Link	USOC	MONTHLY RATE
• 3-Year		
- T-1, 1.544 Mbps[1]	DKJXX	\$133.00
- Token Ring, 4 Mbps	DKGLX	637.50
- Token Ring, 16 Mbps	DKGMX	637.50
- Ethernet, 10 Mbps	DKGNX	637.50
• 4-Year		
- T-1, 1.544 Mbps[1]	DKJYX	133.00
- Token Ring 4 Mbps	DKGOX	637.50
- Token Ring 16 Mbps	DKGPX	637.50
- Ethernet 10 Mbps	DKGQX	637.50
• 5, 6 or 7-Year		
- T-1, 1.544 Mbps[1]	DKJZX	125.00
- Token Ring 4 Mbps	DKGRX	600.00
- Token Ring 16 Mbps	DKGSX	600.00
- Ethernet 10 Mbps	DKGTX	600.00

[1] T-1 Data Links must be ordered with Token Ring or Ethernet Data Links, or may be added to an existing TLS Token Ring or Ethernet configuration. Month-to-Month TLS T-1 Data Link Service is only available following the completion of at least one year of T-1 Data Link Service.

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**104.5 RATES AND CHARGES**

**104.5.1 GENERAL (Cont'd)**

(N)

B. Inter-Ring Link

	<b>MONTHLY RATES</b>			
	<b>USOC</b>	<b>FIXED</b>	<b>USOC</b>	<b>PER MILE</b>
Per Inter-Ring Link				
• Month-to-Month[1] - Inter-Ring Link 0-25 Miles	CB5UX	\$62.50	1HTUS	\$99.00
• 1-Year - Inter-Ring Link 0-25 Miles	CB5VX	62.50	1HTVS	99.00
• 2-Year - Inter-Ring Link 0-25 Miles	CB5WX	56.25	1HTWS	89.10
• 3-Year - Inter-Ring Link 0-25 Miles	CB5YX	53.13	1HTYS	84.15
• 4-Year - Inter-Ring Link 0-25 Miles	CB5ZX	53.13	1HTZS	84.15
• 5, 6 or 7-Year - Inter-Ring Link 0-25 Miles	CB51X	50.00	1HT1S	79.20

[1] Month-to-Month Service is only available following the completion of an initial fixed-period service plan.

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**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.5 RATES AND CHARGES (Cont'd)**

(N)

**104.5.2 OPTIONAL FEATURES AND FUNCTIONS**

A. Multipoint Feature

**MONTHLY RATES**

	<b>MONTH-TO-MONTH[1]</b>		<b>1-YEAR</b>		
	<b>USOC</b>	<b>RATE</b>	<b>USOC</b>	<b>RATE</b>	
Per multipoint feature					
3	Data Links	M3P3M	\$ 150.00	M3P31	\$ 150.00
4	Data Links	M3P4M	400.00	M3P41	400.00
5	Data Links	M3P5M	750.00	M3P51	750.00
6	Data Links	M3P6M	1,050.00	M3P61	1,050.00
7	Data Links	M3P7M	1,400.00	M3P71	1,400.00
8	Data Links	M3P8M	1,800.00	M3P81	1,800.00
9	Data Links	M3P9M	2,205.00	M3P91	2,205.00
10	Data Links	M3PAM	2,600.00	M3PA1	2,600.00
11	Data Links	M3PBM	2,997.50	M3PB1	2,997.50
12	Data Links	M3PCM	3,396.00	M3PC1	3,396.00
13	Data Links	M3PDM	3,792.50	M3PD1	3,792.50
14	Data Links	M3PEM	4,189.50	M3PE1	4,189.50
15	Data Links	M3PFM	4,586.25	M3PF1	4,586.25

[1] Month-to-Month Service is only available following the completion of an initial fixed-period service plan.

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**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.5 RATES AND CHARGES**

**104.5.2 OPTIONAL FEATURES AND FUNCTIONS**

A. Multipoint Feature (Cont'd)

(N)

**MONTHLY RATES**

	<b>2-YEAR</b>		<b>3-YEAR</b>	
	<b>USOC</b>	<b>RATE</b>	<b>USOC</b>	<b>RATE</b>
Per multipoint feature				
3 Data Links	M3P32	\$ 135.00	M3P33	\$ 127.50
4 Data Links	M3P42	360.00	M3P43	340.00
5 Data Links	M3P52	675.00	M3P53	637.50
6 Data Links	M3P62	945.00	M3P63	892.50
7 Data Links	M3P72	1,260.00	M3P73	1,190.00
8 Data Links	M3P82	1,620.00	M3P83	1,530.00
9 Data Links	M3P92	1,984.50	M3P93	1,874.25
10 Data Links	M3PA2	2,340.00	M3PA3	2,210.00
11 Data Links	M3PB2	2,697.75	M3PB3	2,547.88
12 Data Links	M3PC2	3,056.40	M3PC3	2,886.60
13 Data Links	M3PD2	3,413.48	M3PD3	3,223.84
14 Data Links	M3PE2	3,770.55	M3PE3	3,561.08
15 Data Links	M3PF2	4,127.63	M3PF3	3,898.31

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**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.5 RATES AND CHARGES**

**104.5.2 OPTIONAL FEATURES AND FUNCTIONS**

A. Multipoint Feature (Cont'd)

(N)

**MONTHLY RATES**

	<b>4-YEAR USOC</b>	<b>RATE</b>	<b>5, 6 OR 7-YEAR USOC</b>	<b>RATE</b>
Per multipoint feature				
3 Data Links	M3P34	\$ 127.50	M3P35	\$ 120.00
4 Data Links	M3P44	340.00	M3P45	320.00
5 Data Links	M3P54	637.50	M3P55	600.00
6 Data Links	M3P64	892.50	M3P65	840.00
7 Data Links	M3P74	1,190.00	M3P75	1,120.00
8 Data Links	M3P84	1,530.00	M3P85	1,440.00
9 Data Links	M3P94	1,874.25	M3P95	1,764.00
10 Data Links	M3PA4	2,210.00	M3PA5	2,080.00
11 Data Links	M3PB4	2,547.88	M3PB5	2,398.00
12 Data Links	M3PC4	2,886.60	M3PC5	2,716.80
13 Data Links	M3PD4	3,223.84	M3PD5	3,034.20
14 Data Links	M3PE4	3,561.08	M3PE5	3,351.60
15 Data Links	M3PF4	3,898.31	M3PF5	3,669.00

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**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.5 RATES AND CHARGES**

**104.5.2 OPTIONAL FEATURES AND FUNCTIONS (Cont'd)**

(N)

B. Data Link Fiber Diversity

Per Data Link	USOC	NONRECURRING CHARGE[1]	MONTHLY RATE
• Month-to-Month [2]			
- T-1, 1.544 Mbps	DFDUX	\$625.00	\$250.00
- Token Ring 4 Mbps	DFDAX	625.00	250.00
- Token Ring 16 Mbps	DFDBX	625.00	250.00
- Ethernet 10 Mbps	DFDCX	625.00	250.00
• 1-Year			
- T-1, 1.544 Mbps	DFDVX	625.00	250.00
- Token Ring 4 Mbps	DFDDX	625.00	250.00
- Token Ring 16 Mbps	DFDEX	625.00	250.00
- Ethernet 10 Mbps	DFDFX	625.00	250.00
• 2-Year			
- T-1, 1.544 Mbps	DFDWX	625.00	225.00
- Token Ring 4 Mbps	DFDHX	625.00	225.00
- Token Ring 16 Mbps	DFDJX	625.00	225.00
- Ethernet 10 Mbps	DFDKX	625.00	225.00
• 3-Year			
- T-1, 1.544 Mbps	DFDXX	625.00	212.50
- Token Ring 4 Mbps	DFDLX	625.00	212.50
- Token Ring 16 Mbps	DFDMX	625.00	212.50
- Ethernet 10 Mbps	DFDNX	625.00	212.50

[1] A Data Link Fiber Diversity nonrecurring charge does not apply when Diversity is ordered at the time the Data Link is ordered. A nonrecurring charge applies only when Diversity is added to an existing Data Link.

[2] Month-to-Month Service is only available following the completion of an initial fixed-period service plan.

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**Washington**

**SECTION 104**

**Original Sheet 16**

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Effective: December 1, 2007

**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.5 RATES AND CHARGES**

**104.5.2 OPTIONAL FEATURES AND FUNCTIONS**

**B. Data Link Fiber Diversity (Cont'd)**

(N)

	<b>USOC</b>	<b>NONRECURRING CHARGE[1]</b>	<b>MONTHLY RATE</b>
Per Data Link			
• 4-Year			
- T-1, 1.544 Mbps	DFDYX	\$625.00	\$212.50
- Token Ring 4 Mbps	DFDOX	625.00	212.50
- Token Ring 16 Mbps	DFDPX	625.00	212.50
- Ethernet 10 Mbps	DFDQX	625.00	212.50
• 5, 6, or 7-Year			
- T-1, 1.544 Mbps	DFDZX	625.00	200.00
- Token Ring 4 Mbps	DFDRX	625.00	200.00
- Token Ring 16 Mbps	DFDSX	625.00	200.00
- Ethernet 10 Mbps	DFDTX	625.00	200.00

[1] A Data Link Fiber Diversity nonrecurring charge does not apply when Diversity is ordered at the time the Data Link is ordered. A nonrecurring charge applies only when Diversity is added to an existing Data Link.

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Effective: December 1, 2007

**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.5 RATES AND CHARGES**

**104.5.2 OPTIONAL FEATURES AND FUNCTIONS (Cont'd)**

(N)

C. Inter-Ring Link Fiber Diversity

	<b>MONTHLY RATES</b>			
	<b>USOC</b>	<b>FIXED</b>	<b>USOC</b>	<b>PER MILE</b>
Per Inter-Ring Link				
• Month-to-Month [1]				
- Inter-Ring Link 0-25 Miles	CB52X	\$62.50	1HT2S	\$99.00
• 1-Year				
- Inter-Ring Link 0-25 Miles	CB53X	62.50	1HT3S	99.00
• 2-Year				
- Inter-Ring Link 0-25 Miles	CB54X	56.25	1HT4S	89.10
• 3-Year				
- Inter-Ring Link 0-25 Miles	CB55X	53.13	1HT5S	84.15
• 4-Year				
- Inter-Ring Link 0-25 Miles	CB56X	53.13	1HT6S	84.15
• 5, 6 or 7-Year				
- Inter-Ring Link 0-25 Miles	CB57X	50.00	1HT7S	79.20

[1] Month-to-Month Service is only available following the completion of an initial fixed-period service plan.

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**104.5 RATES AND CHARGES**

**104.5.2 OPTIONAL FEATURES AND FUNCTIONS (Cont'd)**

(N)

D. Interface Redundancy

Per Data Link	USOC	NONRECURRING CHARGE	MONTHLY RATE
• Month-to-Month[1]			
- T-1, 1.544 Mbps	R8EUX	\$175.00	\$ 75.00
- Token Ring 4 Mbps	R8EAX	175.00	100.00
- Token Ring 16 Mbps	R8EBX	175.00	100.00
- Ethernet 10 Mbps	R8ECX	175.00	100.00
• 1-Year			
- T-1, 1.544 Mbps	R8EVX	175.00	75.00
- Token Ring 4 Mbps	R8EDX	175.00	100.00
- Token Ring 16 Mbps	R8EEX	175.00	100.00
- Ethernet 10 Mbps	R8EFX	175.00	100.00
• 2-Year			
- T-1, 1.544 Mbps	R8EWX	175.00	67.50
- Token Ring 4 Mbps	R8EHX	175.00	90.00
- Token Ring 16 Mbps	R8EJX	175.00	90.00
- Ethernet 10 Mbps	R8EKX	175.00	90.00

[1] Month-to-Month Service is only available following the completion of an initial fixed-period service plan.

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**104. OBSOLETE TRANSPARENT LAN SERVICE**

**104.5 RATES AND CHARGES**

**104.5.2 OPTIONAL FEATURES AND FUNCTIONS**

D. Interface Redundancy (Cont'd)

(N)

Per Data Link	USOC	NONRECURRING CHARGE	MONTHLY RATE
• 3-Year			
- T-1, 1.544 Mbps	R8EXX	\$175.00	\$ 63.75
- Token Ring 4 Mbps	R8ELX	175.00	85.00
- Token Ring 16 Mbps	R8EMX	175.00	85.00
- Ethernet 10 Mbps	R8ENX	175.00	85.00
• 4-Year			
- T-1, 1.544 Mbps	R8EYX	175.00	63.75
- Token Ring 4 Mbps	R8EOX	175.00	85.00
- Token Ring 16 Mbps	R8EPX	175.00	85.00
- Ethernet 10 Mbps	R8EQX	175.00	85.00
• 5, 6 or 7-Year			
- T-1, 1.544 Mbps	R8EZX	175.00	60.00
- Token Ring 4 Mbps	R8ERX	175.00	80.00
- Token Ring 16 Mbps	R8ESX	175.00	80.00
- Ethernet 10 Mbps	R8ETX	175.00	80.00

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**ADVANCED  
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**107. OBSOLETE ATM CELL RELAY SERVICE**

(N)

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Effective: December 1, 2007

**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.1 DESCRIPTION**

(N)

Services contained in this section are Grandfathered to existing customers and will not be provided as new items of service. Existing services will be subject to the following service limitations:

- A. Customers can add, rearrange and move, or continue to subscribe to ATM Service on a month-to-month basis as specified, following, provided equipment and facilities are available.
- B. Customers with month-to-month service may continue to subscribe to ATM until November 8, 2002.
- C. Customers with a fixed service period of 1, 2, 3, 4, 5, 6 or 7 years, may complete the fixed service period. Customers with fixed service periods expiring between May 8, 2002 and November 8, 2002 may retain the service at month-to-month rates until November 8, 2002.

NOTICE

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.1 DESCRIPTION**

(N)

**107.1.1 GENERAL**

ATM Cell Relay Service (ATM CRS) is a connection-oriented communications service that uses Asynchronous Transfer Mode (ATM) technology. The service provides customers with high-speed, low-delay information transfer capacity, which supports applications that require near-real-time mixed media (data, video, image, voice) communications among multiple locations. ATM CRS supports transmission speeds up to 1.544 Mbps, 45 Mbps, or 155 Mbps.

ATM CRS requires the use of customer terminal equipment that functions as a multiplexer/router/hub or ATM switch. This terminal equipment must be purchased separately from the ATM CRS and must conform to standards set forth in technical publications listed in this Catalog under Reference to Technical Publications. The terminal equipment accumulates customer traffic and puts it into a cell relay format suitable for transmission over the ATM CRS Network.

ATM CRS conforms to standards set forth in technical publications listed in this Catalog under Reference to Technical Publications and is only provided over fiber optic facilities.

A customer may request that the facilities used to provide ATM CRS be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Diversity) are set forth in the Access Service Tariff, Section 11.

ATM connectivity between two separate LSS networks and/or between LSS and ATM CRS locations can be used for LSS provisioning. The connection between the LSS/LSS or LSS/ATM CRS locations can be an ATM CRS virtual channel connection (VCC). VCCs for the LSS/LSS or LSS to ATM CRS option are only available as Unspecified Bit Rate Service (UBRS) for Monthly or fixed period service rate plans of 12, 36 and 60 Months.

**107.1.2 SERVICE ELEMENTS**

**A. Network Interface**

The network interface is the point at which a customer's data transmissions first enter the network supporting ATM CRS. It is the point of interconnection between Company communication facilities and customer terminal equipment.

**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.1 DESCRIPTION**

**107.1.2 SERVICE ELEMENTS (Cont'd)**

(N)

**B. Optical Access Link (OAL)**

An ATM CRS Optical Access Link provides access to the ATM CRS Network, connecting customer facilities at the network interface with a corresponding ATM CRS Cell Transfer element. An ATM CRS Optical Access Link is only available at ATM CRS Service Points. In lieu of an Optical Access Link, a Private Line Transport Service DS1 Channel Termination (CT) with Clear Channel Capability, as set forth in the Private Line Transport Service Catalog, is used to provide access to a 1.544 Mbps Cell Transfer. The DS1 CT provides access to the Company ATM CRS Network switch via a connection between customer facilities at the network interface and a Cell Transfer service element. At the customer's option, an ATM CRS Optical Access Link may be ordered with 45 or 155 Mbps OAL Protection.

**C. Stand-Alone Optical Access Link (SAOAL)**

An ATM CRS Stand-Alone Optical Access Link connects customer facilities to cell relay networks provided by service providers other than the Company. Private line transport mileage and/or a Central Office Connecting Channel (COCC) may be required in conjunction with a Stand-Alone Optical Access Link in order to connect the customer's serving wire center, or node, with the serving wire center, or node of another ATM CRS provider. At the customer's option, a Stand-Alone Optical Access Link may be ordered with 45 or 155 Mbps OAL Protection.

**D. Port**

ATM CRS ports are the physical entry points into the ATM CRS Network for Optical Access Links or other compatible private line facilities, such as DS3 Service. They are the originating and terminating points for Virtual Path Connections and Virtual Channel Connections. Ports include the electronic equipment used in connecting these service elements to the ATM CRS Network. They enable customers to allocate bandwidth to applications at customer-designated transmission speeds up to 1.544 Mbps, 45 Mbps, or 155 Mbps.

**E. Service Points**

Service Points are geographic locations designated by the Company where the ATM CRS Network can be accessed and where ATM CRS Network ports are located. The ATM CRS Service Points are listed in the National Exchange Carrier Association FCC Tariff No. 4.

NOTICE

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.1 DESCRIPTION**

**107.1.2 SERVICE ELEMENTS (Cont'd)**

(N)

F. Logical Connections

ATM CRS logical connections function as bidirectional Permanent Virtual Connections (PVCs), but they are priced as unidirectional PVCs. ATM CRS will support a point-to-point logical connection configuration between two ports. Logical Connections may be any of three service types: Peak Cell Rate Service, Sustained Cell Rate Service, or Unspecified Bit Rate Service.

1. Virtual Channel Connections (VCC)

A VCC is a logical connection from one ATM CRS Port to another CRS Port within the ATM CRS Network.

VCCs are available as Peak Cell Rate Service and/or Sustained Cell Rate Service, at customer-selected Cell Transfer speed(s), depending on the customer's networking requirements. VCCs are also available as Unspecified Bit Rate Service.

2. Virtual Path Connections (VPC)

A VPC is a collection of VCCs routed together as one unit, for which the customer has the ability to manage the speeds of the individual VCCs within the customer-designated Cell Transfer element.

VPCs are available as Peak Cell Rate Service, at customer-selected Cell Transfer speed(s), depending on the customer's networking requirements.

3. Logical connections are available at base speeds determined by the speed of the ATM CRS Port (1.544 Mbps, 45 Mbps, or 155 Mbps). The customer selects a base speed, which includes appropriate overheads, for each VCC or VPC they purchase. The bandwidth for each VCC or VPC is determined by multiplying the base speed by the number of increments of that base speed selected by the customer. The maximum bandwidth for multiple logical connections on an ATM CRS Port is determined by the customer selected service types.

NOTICE

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.1 DESCRIPTION**

**107.1.2 SERVICE ELEMENTS**

F.3. (Cont'd)

(N)

Logical connections are available at the following incremental base speeds:

**AVAILABLE BASE SPEEDS:**

On a 1.544 Mbps Port:

Increments of 64 kbps

Increments of 75 kbps

Increments of 1 Mbps

On a 45 Mbps Port:

Increments of 64 kbps

Increments of 75 kbps

Increments of 1 Mbps

Increments of 1.544 Mbps

Increments of 1.787 Mbps

Increments of 40.7 Mbps

On a 155 Mbps Port:

Increments of 64 kbps

Increments of 75 kbps

Increments of 1 Mbps

Increments of 1.544 Mbps

Increments of 1.787 Mbps

Increments of 40.7 Mbps

Increments of 149 Mbps

Unspecified Bit Rate Service offers bandwidth increments of 64 kbps and 1 Mbps.

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.1 DESCRIPTION**

**107.1.2 SERVICE ELEMENTS**

F.3. (Cont'd)

(N)

A customer may select multiple logical connections of different service classes on an ATM CRS Port. The speed of a Peak Cell Rate Service logical connection may not exceed the maximum speed associated with its customer-selected incremental base speed, which includes appropriate overheads. The speed of a Sustained Cell Rate Service logical connection may not exceed 80 percent of the maximum speed associated with its incremental base speed; e.g., if a customer selects a base speed of 10 Mbps for a Sustained Cell Rate Service logical connection on a 45 Mbps port, the maximum speed for that logical connection may not exceed 80 percent of 10 Mbps, or 8 Mbps.

The logical connection of an Unspecified Bit Rate Service may not exceed the maximum speed associated with its customer-selected incremental base speed, which includes appropriate overhead. The maximum subscription bandwidth allowed is limited by the number of increments of the base speed selected by the customer. For the 64 kbps service increment, the maximum subscription bandwidth allowed is 23 x 64 kbps, regardless of port speeds. For the 1 Mbps service increment, the maximum subscription bandwidths allowed are: 1 Mbps for the 1.544 Mbps port, 40 Mbps for the 45 Mbps port and 149 Mbps for the 155 Mbps port.

For Peak Cell Rate Service, a single logical connection configuration is also available. A customer may choose a single 40.7 Mbps logical connection on a 45 Mbps port or a single 149 Mbps logical connection on a 155 Mbps port.

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.1 DESCRIPTION**

**107.1.2 SERVICE ELEMENTS (Cont'd)**

(N)

G. Service Types

ATM CRS logical connections are provided as Peak Cell Rate Service, Sustained Cell Rate Service, or Unspecified Bit Rate Service. The industry standard designation for Peak Cell Rate Service is Service Class A; for Sustained Cell Rate Service it is Service Class C.

- Peak Cell Rate Service (PCRS)

PCRS supports VCCs and VPCs carrying a constant flow of information (Constant Bit Rate traffic). The Peak Cell Rate, which includes appropriate overheads, is the customer-selected, upper limit for cell traffic on a logical connection. When cells exceed the Peak Cell Rate for PCRS logical connections, the cells are discarded upon entry into the ATM CRS Network. The Peak Cell Rate of a PCRS logical connection must be less than the speed of the associated port.

NOTICE

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.1 DESCRIPTION**

**107.1.2 SERVICE ELEMENTS**

G. Service Types (Cont'd)

(N)

- Sustained Cell Rate Service (SCRS)

SCRS supports VCCs carrying information at variable rates (Variable Bit Rate traffic). The Sustained Cell Rate is the average cell rate, including bursts above the average, which can be sustained over an SCRS logical connection. The customer selects the bandwidth characteristics of an SCRS logical connection by choosing the appropriate Sustained Cell Rate, which includes appropriate overheads. A customer may also select maximum burst size levels of 32 cells, 100 cells or 200 cells over a SCRS logical connection at a rate equal to a Peak Cell Rate chosen by the customer, or the port speed when no Peak Cell Rate is chosen; however, the average cell rate transmitted for that logical connection must equal the chosen Sustained Cell Rate. The Peak Cell Rate of an SCRS logical connection may equal, but not exceed, the speed of the associated port.

- Maximum Burst Size

The Maximum Burst Size (MBS) is the maximum number of cells that can be sent at the Peak Cell Rate on a SCRS connection at one time. Sending a burst at MBS will require the connection to reduce its data rate below the SCR for a fixed period of time before the next burst can be sent. The maximum burst size levels available are: 32 Cells (accommodating one Ethernet Frame); 100 Cells (accommodating one Token Ring Frame); and 200 Cells (accommodating one FDDI Frame). The 32 cell burst size will be assigned unless the customer requests a different level. The MBS of 200 Cells will require the customer to purchase a minimum of 4 Mbps of SCRS service for each VCC.

NOTICE

THE INFORMATION CONTAINED IN THIS DOCUMENT IS SUBJECT TO CHANGE.



**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.1 DESCRIPTION**

**107.1.2 SERVICE ELEMENTS**

G. Service Types (Cont'd)

(N)

3. Unspecified Bit Rate Service (UBRS)

UBRS is a best-effort service designed to support a connection carrying information at variable rates, over VCCs. The UBR Service does not provide traffic related service guarantees, specifically, per-connection bandwidth, cell loss, cell transfer delay and cell delay variation. The Peak Cell Rate, which includes appropriate overheads, is the customer-selected, upper limit of cell traffic on a logical connection. The Peak Cell Rate specifies the highest cell rate that will be allowed on a connection, but not guaranteed. When cells exceed the Peak Cell Rate for UBRS logical connections, the cells are discarded upon entry into the ATM CRS Network. The Peak Cell Rate of a UBRS logical connection, may equal but not exceed the speed of the associated port.

H. Cell Transfer

The Cell Transfer service element transfers information between Network Interfaces connected to the ATM CRS network at speed(s) selected by the customer for VCCs or VPCs. The customer must designate whether the Cell Transfer for each logical connection is PCRS, SCRS or UBRS.

The total speed of Cell Transfer elements on a customer's ATM CRS configuration may not exceed the associated Cell Transfer port speed (1.544 Mbps, 45 Mbps, or 155 Mbps).

I. Central Office Connecting Channel (COCC)

A COCC provides the ongoing interconnection from the multiplexer or other Company facility port to an ATM CRS port when a customer accesses ATM CRS via a private line transport facility which requires multiplexing to be compatible with ATM CRS transmission speeds or requires port-to-port connectivity. A COCC may be used to connect a Stand Alone Optical Access Link to a private line transport facility. The COCC provides connectivity up to 1.544 Mbps, or up to 45 Mbps, or up to 155 Mbps.

NOTICE

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.1 DESCRIPTION**

**107.1.2 SERVICE ELEMENTS (Cont'd)**

(N)

J. 45 or 155 Mbps OAL Protection Option

45 or 155 Mbps OAL Protection provides added reliability to ATM CRS transported over fiber optic facilities. This feature provides a separate facility path within the same conduit, cable, sheath, etc. for the protection system between the Serving Wire Center and the network interface. The 45 or 155 Mbps OAL Protection does not provide for diverse facilities into the building. A customer may request that the facilities used to provide ATM CRS be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Diversity) are set forth in the Access Service Tariff, Section 11.

This added protection is provided by ensuring that backup electronics and two logically separate facility paths are used in the provisioning of the service. One primary (or working) service path is established between the Serving Wire Center and the customer designated premises. In addition, a protect path is provisioned between the customer designated premises and the Serving Wire Center. In the event that the working facility or electronics fail, or the service performance becomes impaired; i.e., the bit error rate degenerates to less than or equal to  $10^{-6}$ , the facility automatically switches to the service protect path in order to maintain a near continuous flow of information between locations.

The offering of 45 or 155 Mbps OAL Protection contemplates the use of existing facilities. Facilities requiring Special Construction will be provided as set forth in Section 3.

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.2 GENERAL TERMS AND CONDITIONS**

(N)

In addition to the regulations in Section 2 and Section 3 of this Catalog, the regulations in this section also apply for ATM CRS.

**107.2.1 OBLIGATIONS OF THE CUSTOMER**

The customer is responsible for providing compatible terminal equipment capable of shaping cell transmissions to the parameters associated with the ATM CRS service types.

**107.3 RATE REGULATIONS**

- A. The initial order for ATM CRS must be for a fixed period of one, two, three, four, five, six or seven years, as set forth in 2.4.5. At the end of the initial service period, the service may be obtained on a month-to-month basis or for any of the specified fixed service periods.
- B. A subsequent order to add ATM CRS Optical Access Links and/or logical connections to an existing fixed-period service pricing plan must be for a fixed period of one, two, three, four, five, six or seven years, or for the remainder of the existing fixed-period service pricing plan, provided the remainder of the existing plan is at least the minimum period for that plan, as set forth in 2.4.3. If the remaining term is less than the associated minimum period, the minimum term for the added Access Link and/or logical connections shall be the associated minimum period.
- C. ATM CRS rate elements may be ordered under any combination of optional pricing plans. For example, the customer may order the Access Link under the three-year fixed period service pricing plan and the Cell Transfer under the five-year fixed period service pricing plan.
- D. A customer may access ATM CRS via an Optical Access Link or via Company-provided, digital private line services. A customer utilizing private line services to access ATM CRS does not incur a nonrecurring charge or monthly rate for an ATM CRS Optical Access Link, but does incur a monthly rate and a nonrecurring charge for a Central Office Connecting Channel and all other monthly rates and nonrecurring charges normally associated with the ordering, installation and provisioning of ATM CRS, as set forth in 107.4.

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.4 RATE ELEMENTS**

(N)

**107.4.1 GENERAL**

**A. Optical Access Link (OAL)**

A nonrecurring charge and monthly rate, both based on the speed of the OAL (45 Mbps or 155 Mbps), apply per OAL for each physical connection to the ATM CRS Network. When a customer accesses a 1.544 Mbps ATM CRS via a Private Line Transport Service DS1 Channel Termination (CT) with Clear Channel Capability, rates and charges apply, as set forth in the Private Line Transport Service Catalog. At the customer's option, an ATM CRS Optical Access Link may be ordered with 45 or 155 Mbps OAL Protection.

**B. Stand-Alone Optical Access Link (SAOAL)**

A nonrecurring charge and monthly rate, both based on the speed of the SAOAL (45 Mbps or 155 Mbps), apply per SAOAL. At the customer's option, a Stand-Alone Optical Access Link may be ordered with 45 or 155 Mbps OAL Protection.

**C. Cell Transfer**

A "First" nonrecurring charge per port applies for the first logical connection (VCC or VPC) on an ATM CRS configuration. An "Each Additional" nonrecurring charge applies for each additional logical connection ordered on the same ATM CRS Port, installed at the same time (same due date) for the same customer of record as the first logical connection. A Cell Transfer fixed nonrecurring charge also applies per port, based on the port speed. A Cell Transfer fixed monthly rate applies, based on the port speed, for each ATM CRS OAL or DS3 connection to the network supporting ATM CRS. A variable, or incremental, monthly rate applies per port for the total bandwidth of all logical connections, based on the service type (PCRS, SCRS or UBRs) of the connections, the speed of the port and the number of 64 kbps, 75 kbps, 1 Mbps, 1.544 Mbps, 1.787 Mbps, 40.7 Mbps or 149 Mbps increments of bandwidth, or fraction thereof, provided on the connections.

Bandwidth increments of 75 kbps, 1.787 Mbps, 40.7 Mbps, and 149 Mbps are not available with SCRS. Bandwidth increments of 75 kbps, 1.544 Mbps, 1.787 Mbps, 40.7 Mbps and 149 Mbps are not available with UBRs.

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**107.4 RATE ELEMENTS**

**107.4.1 GENERAL**

C. Cell Transfer (Cont'd)

(N)

A SCRS Maximum Burst Size monthly rate applies per VCC, based on the cell level of 100 or 200. In addition, the Maximum Burst Size of 200 Cells requires the customer to purchase a minimum of 4 Mbps of SCRS for each VCC.

A nonrecurring charge applies for each subsequent order to add or to change logical connections on an existing ATM CRS configuration, in addition to the "First" and "Each Additional" nonrecurring charges for the logical connections in the subsequent order.

"First" nonrecurring charge applies for the first logical connection VCC on an LSS/LSS or LSS/ATM CRS configuration. "Each Additional" nonrecurring charge applies for each additional logical connection ordered on the same LSS/LSS or LSS/ATM CRS configuration, installed at the same time (same due date) for the same customer of record as the first logical connection. A nonrecurring charge applies for each subsequent order to add or to change logical connections on an existing LSS/LSS or LSS/ATM CRS configuration, in addition to the "First" and "Each Additional" nonrecurring charges for the logical connections in the subsequent order.

D. Central Office Connecting Channel (COCC)

A nonrecurring charge and a monthly rate apply per COCC, based on the connectivity speed of the COCC.

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**107.5 RATES AND CHARGES**

(N)

**107.5.1 GENERAL**

A. Optical Access Link

	<b>USOC</b>	<b>NONRECURRING CHARGE</b>	<b>MONTHLY RATE</b>
1. 45 Mbps, per Access Link			
• Month-To-Month	N7AXM	\$ 840.27	\$ 710.00
• 1-Year	N7AX1	840.27	674.50
• 2-Year	N7AX2	840.27	665.63
• 3-Year	N7AX3	840.27	656.75
• 4-Year	N7AX4	840.27	647.88
• 5-Year	N7AX5	840.27	639.00
• 6-Year	N7AX6	840.27	639.00
• 7-Year	N7AX7	840.27	639.00
2. 45 Mbps optioned with protection, per Access Link			
• Month-To-Month	N7ARM	1,320.00	1,200.00
• 1-Year	N7AR1	1,320.00	1,140.00
• 2-Year	N7AR2	1,320.00	1,125.00
• 3-Year	N7AR3	1,320.00	1,110.00
• 4-Year	N7AR4	1,320.00	1,095.00
• 5-Year	N7AR5	1,320.00	1,080.00
• 6-Year	N7AR6	1,320.00	1,080.00
• 7-Year	N7AR7	1,320.00	1,080.00

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**107.5 RATES AND CHARGES**

**107.5.1 GENERAL**

A. Optical Access Link (Cont'd)

(N)

	<b>USOC</b>	<b>NONRECURRING CHARGE</b>	<b>MONTHLY RATE</b>
3. 155 Mbps, per Access Link			
• Month-To-Month	N7AXM	\$ 860.24	\$1,060.00
• 1-Year	N7AX1	860.24	1,007.00
• 2-Year	N7AX2	860.24	993.75
• 3-Year	N7AX3	860.24	980.50
• 4-Year	N7AX4	860.24	967.25
• 5-Year	N7AX5	860.24	954.00
• 6-Year	N7AX6	860.24	954.00
• 7-Year	N7AX7	860.24	954.00
4. 155 Mbps optioned with protection, per Access Link			
• Month-To-Month	N7ARM	1,380.00	2,800.00
• 1-Year	N7AR1	1,380.00	2,660.00
• 2-Year	N7AR2	1,380.00	2,625.00
• 3-Year	N7AR3	1,380.00	2,590.00
• 4-Year	N7AR4	1,380.00	2,555.00
• 5-Year	N7AR5	1,380.00	2,520.00
• 6-Year	N7AR6	1,380.00	2,520.00
• 7-Year	N7AR7	1,380.00	2,520.00

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**107.5 RATES AND CHARGES**

**107.5.1 GENERAL (Cont'd)**

**B. Stand-Alone Optical Access Link**

	<b>USOC</b>	<b>NONRECURRING CHARGE</b>	<b>MONTHLY RATE</b>
1. 45 Mbps, per Access Link			
• Month-To-Month	N1AXM	\$ 840.27	\$ 710.00
• 1-Year	N1AX1	840.27	674.50
• 2-Year	N1AX2	840.27	665.63
• 3-Year	N1AX3	840.27	656.75
• 4-Year	N1AX4	840.27	647.88
• 5-Year	N1AX5	840.27	639.00
• 6-Year	N1AX6	840.27	639.00
• 7-Year	N1AX7	840.27	639.00
2. 45 Mbps optioned with protection, per Access Link			
• Month-To-Month	N1ARM	1,320.00	1,200.00
• 1-Year	N1AR1	1,320.00	1,140.00
• 2-Year	N1AR2	1,320.00	1,125.00
• 3-Year	N1AR3	1,320.00	1,110.00
• 4-Year	N1AR4	1,320.00	1,095.00
• 5-Year	N1AR5	1,320.00	1,080.00
• 6-Year	N1AR6	1,320.00	1,080.00
• 7-Year	N1AR7	1,320.00	1,080.00

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.5 RATES AND CHARGES**

**107.5.1 GENERAL**

**B. Stand-Alone Optical Access Link (Cont'd)**

	<b>USOC</b>	<b>NONRECURRING CHARGE</b>	<b>MONTHLY RATE</b>
3. 155 Mbps, per Access Link			
• Month-To-Month	N1AXM	\$ 860.24	\$1,060.00
• 1-Year	N1AX1	860.24	1,007.00
• 2-Year	N1AX2	860.24	993.75
• 3-Year	N1AX3	860.24	980.50
• 4-Year	N1AX4	860.24	967.25
• 5-Year	N1AX5	860.24	954.00
• 6-Year	N1AX6	860.24	954.00
• 7-Year	N1AX7	860.24	954.00
4. 155 Mbps optioned with protection, per Access Link			
• Month-To-Month	N1ARM	1,380.00	2,800.00
• 1-Year	N1AR1	1,380.00	2,660.00
• 2-Year	N1AR2	1,380.00	2,625.00
• 3-Year	N1AR3	1,380.00	2,590.00
• 4-Year	N1AR4	1,380.00	2,555.00
• 5-Year	N1AR5	1,380.00	2,520.00
• 6-Year	N1AR6	1,380.00	2,520.00
• 7-Year	N1AR7	1,380.00	2,520.00

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**107.5 RATES AND CHARGES**

**107.5.1 GENERAL (Cont'd)**

(N)

C. Cell Transfer

	<b>USOC</b>	<b>NONRECURRING CHARGE</b>	
• First VCC	NR9AV	\$150.00	
• Each Additional VCC	NR9AW	50.00	
• First VPC	NR9AX	150.00	
• Each Additional VPC	NR9AY	50.00	
• Per Subsequent VCC or VPC Order	NR9AZ	160.00	
	<b>USOC</b>	<b>NONRECURRING CHARGE</b>	<b>MONTHLY RATE</b>
1. 1.544 Mbps Fixed Rate, per port			
• Month-To-Month	C3TXM	\$161.45	\$280.00
• 1-Year	C3TX1	161.45	266.00
• 2-Year	C3TX2	161.45	262.50
• 3-Year	C3TX3	161.45	259.00
• 4-Year	C3TX4	161.45	255.50
• 5-Year	C3TX5	161.45	252.00
• 6-Year	C3TX6	161.45	252.00
• 7-Year	C3TX7	161.45	252.00

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107.5 RATES AND CHARGES

107.5.1 GENERAL

C. Cell Transfer (Cont'd)

(N)

	USOC	NONRECURRING CHARGE	MONTHLY RATE
2. 45 Mbps Fixed Rate, per port			
• Month-To-Month	C3TXM	\$161.45	\$440.00
• 1-Year	C3TX1	161.45	418.00
• 2-Year	C3TX2	161.45	412.50
• 3-Year	C3TX3	161.45	407.00
• 4-Year	C3TX4	161.45	401.50
• 5-Year	C3TX5	161.45	396.00
• 6-Year	C3TX6	161.45	396.00
• 7-Year	C3TX7	161.45	396.00
3. 155 Mbps Fixed Rate, per port			
• Month-To-Month	C3TXM	161.45	800.00
• 1-Year	C3TX1	161.45	760.00
• 2-Year	C3TX2	161.45	750.00
• 3-Year	C3TX3	161.45	740.00
• 4-Year	C3TX4	161.45	730.00
• 5-Year	C3TX5	161.45	720.00
• 6-Year	C3TX6	161.45	720.00
• 7-Year	C3TX7	161.45	720.00

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107.5 RATES AND CHARGES

107.5.1 GENERAL

C. Cell Transfer (Cont'd)

(N)

	USOC	MONTHLY RATE
4. Peak Cell Rate Service (PCRS) Incremental Cell Transfer on a 1.544 Mbps port		
• Per 64 kbps increment of bandwidth		
- Month-To-Month	CTNBM	\$ 2.00
- 1-Year	CTNB1	1.90
- 2-Year	CTNB2	1.88
- 3-Year	CTNB3	1.85
- 4-Year	CTNB4	1.83
- 5-Year	CTNB5	1.80
- 6-Year	CTNB6	1.80
- 7-Year	CTNB7	1.80
• Per 75 kbps increment of bandwidth		
- Month-To-Month	CTNJM	2.30
- 1-Year	CTNJ1	2.19
- 2-Year	CTNJ2	2.16
- 3-Year	CTNJ3	2.13
- 4-Year	CTNJ4	2.10
- 5-Year	CTNJ5	2.07
- 6-Year	CTNJ6	2.07
- 7-Year	CTNJ7	2.07
• Per 1 Mbps increment of bandwidth		
- Month-To-Month	CTNAM	30.00
- 1-Year	CTNA1	28.50
- 2-Year	CTNA2	28.13
- 3-Year	CTNA3	27.75
- 4-Year	CTNA4	27.38
- 5-Year	CTNA5	27.00
- 6-Year	CTNA6	27.00
- 7-Year	CTNA7	27.00

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107.5 RATES AND CHARGES

107.5.1 GENERAL

C.5. (Cont'd)

	USOC	MONTHLY RATE
Peak Cell Rate Service (PCRS) Incremental Cell Transfer on a 45 Mbps port		
• Per 1.544 Mbps increment of bandwidth		
- Month-To-Month	CTNDM	\$ 40.00
- 1-Year	CTND1	38.00
- 2-Year	CTND2	37.50
- 3-Year	CTND3	37.00
- 4-Year	CTND4	36.50
- 5-Year	CTND5	36.00
- 6-Year	CTND6	36.00
- 7-Year	CTND7	36.00
• Per 1.787 Mbps increment of bandwidth		
- Month-To-Month	CTNKM	46.50
- 1-Year	CTNK1	44.18
- 2-Year	CTNK2	43.59
- 3-Year	CTNK3	43.01
- 4-Year	CTNK4	42.43
- 5-Year	CTNK5	41.85
- 6-Year	CTNK6	41.85
- 7-Year	CTNK7	41.85
• Per 40.7 Mbps increment of bandwidth[1]		
- Month-To-Month	CTNGM	1,050.00
- 1-Year	CTNG1	997.50
- 2-Year	CTNG2	984.38
- 3-Year	CTNG3	971.25
- 4-Year	CTNG4	958.13
- 5-Year	CTNG5	945.00
- 6-Year	CTNG6	945.00
- 7-Year	CTNG7	945.00

[1] Only one increment applies on a 45 Mbps port.

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**107.5 RATES AND CHARGES**

**107.5.1 GENERAL**

C. Cell Transfer (Cont'd)

	<b>USOC</b>	<b>MONTHLY RATE</b>
6. Peak Cell Rate Service (PCRS) Incremental Cell Transfer on a 155 Mbps port		
• Per 64 kbps increment of bandwidth		
- Month-To-Month	CTNBM	\$2.00
- 1-Year	CTNB1	1.90
- 2-Year	CTNB2	1.88
- 3-Year	CTNB3	1.85
- 4-Year	CTNB4	1.83
- 5-Year	CTNB5	1.80
- 6-Year	CTNB6	1.80
- 7-Year	CTNB7	1.80
• Per 75 kbps increment of bandwidth		
- Month-To-Month	CTNJM	2.30
- 1-Year	CTNJ1	2.19
- 2-Year	CTNJ2	2.16
- 3-Year	CTNJ3	2.13
- 4-Year	CTNJ4	2.10
- 5-Year	CTNJ5	2.07
- 6-Year	CTNJ6	2.07
- 7-Year	CTNJ7	2.07

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**107.5 RATES AND CHARGES**

**107.5.1 GENERAL**

C.6. (Cont'd)

	<b>USOC</b>	<b>MONTHLY RATE</b>
Peak Cell Rate Service (PCRS) Incremental Cell Transfer on a 155 Mbps port		
• Per 1 Mbps increment of bandwidth		
- Month-To-Month	CTNAM	\$30.00
- 1-Year	CTNA1	28.50
- 2-Year	CTNA2	28.13
- 3-Year	CTNA3	27.75
- 4-Year	CTNA4	27.38
- 5-Year	CTNA5	27.00
- 6-Year	CTNA6	27.00
- 7-Year	CTNA7	27.00
• Per 1.544 Mbps increment of bandwidth		
- Month-To-Month	CTNDM	40.00
- 1-Year	CTND1	38.00
- 2-Year	CTND2	37.50
- 3-Year	CTND3	37.00
- 4-Year	CTND4	36.50
- 5-Year	CTND5	36.00
- 6-Year	CTND6	36.00
- 7-Year	CTND7	36.00

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107.5 RATES AND CHARGES

107.5.1 GENERAL

C.6. (Cont'd)

	USOC	MONTHLY RATE
Peak Cell Rate Service (PCRS) Incremental Cell Transfer on a 155 Mbps port		
• Per 1.787 Mbps increment of bandwidth		
- Month-To-Month	CTNKM	\$ 46.50
- 1-Year	CTNK1	44.18
- 2-Year	CTNK2	43.59
- 3-Year	CTNK3	43.01
- 4-Year	CTNK4	42.43
- 5-Year	CTNK5	41.85
- 6-Year	CTNK6	41.85
- 7-Year	CTNK7	41.85
• Per 40.7 Mbps increment of bandwidth		
- Month-To-Month	CTNGM	1,050.00
- 1-Year	CTNG1	997.50
- 2-Year	CTNG2	984.38
- 3-Year	CTNG3	971.25
- 4-Year	CTNG4	958.13
- 5-Year	CTNG5	945.00
- 6-Year	CTNG6	945.00
- 7-Year	CTNG7	945.00
• Per 149 Mbps increment of bandwidth[1]		
- Month-To-Month	CTNHM	3,800.00
- 1-Year	CTNH1	3,610.00
- 2-Year	CTNH2	3,562.50
- 3-Year	CTNH3	3,515.00
- 4-Year	CTNH4	3,467.50
- 5-Year	CTNH5	3,420.00
- 6-Year	CTNH6	3,420.00
- 7-Year	CTNH7	3,420.00

[1] Only one increment applies on a 155 Mbps port.

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**107.5 RATES AND CHARGES**

**107.5.1 GENERAL**

C. Cell Transfer (Cont'd)

	<b>USOC</b>	<b>MONTHLY RATE</b>
7. Sustained Cell Rate Service (SCRS) Incremental Cell Transfer on a 1.544 Mbps port		
• Per 64 kbps increment of bandwidth		
- Month-To-Month	CTNEM	\$ 2.50
- 1-Year	CTNE1	2.38
- 2-Year	CTNE2	2.34
- 3-Year	CTNE3	2.31
- 4-Year	CTNE4	2.28
- 5-Year	CTNE5	2.25
- 6-Year	CTNE6	2.25
- 7-Year	CTNE7	2.25
• Per 1 Mbps increment of bandwidth		
- Month-To-Month	CTNCM	37.50
- 1-Year	CTNC1	35.63
- 2-Year	CTNC2	35.16
- 3-Year	CTNC3	34.69
- 4-Year	CTNC4	34.22
- 5-Year	CTNC5	33.75
- 6-Year	CTNC6	33.75
- 7-Year	CTNC7	33.75

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**107.5.1 GENERAL**

C. Cell Transfer (Cont'd)

	<b>USOC</b>	<b>MONTHLY RATE</b>
8. Sustained Cell Rate Service (SCRS) Incremental Cell Transfer on a 45 Mbps port		
• Per 64 kbps increment of bandwidth		
- Month-To-Month	CTNEM	\$ 2.50
- 1-Year	CTNE1	2.38
- 2-Year	CTNE2	2.34
- 3-Year	CTNE3	2.31
- 4-Year	CTNE4	2.28
- 5-Year	CTNE5	2.25
- 6-Year	CTNE6	2.25
- 7-Year	CTNE7	2.25
• Per 1 Mbps increment of bandwidth		
- Month-To-Month	CTNCM	37.50
- 1-Year	CTNC1	35.63
- 2-Year	CTNC2	35.16
- 3-Year	CTNC3	34.69
- 4-Year	CTNC4	34.22
- 5-Year	CTNC5	33.75
- 6-Year	CTNC6	33.75
- 7-Year	CTNC7	33.75

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**107.5.1 GENERAL**

C.8. (Cont'd)

	<b>USOC</b>	<b>MONTHLY RATE</b>
Sustained Cell Rate Service (SCRS) Incremental Cell Transfer on a 45 Mbps port		
• Per 1.544 Mbps increment of bandwidth		
- Month-To-Month	CTNFM	\$45.00
- 1-Year	CTNF1	42.75
- 2-Year	CTNF2	42.19
- 3-Year	CTNF3	41.63
- 4-Year	CTNF4	41.06
- 5-Year	CTNF5	40.50
- 6-Year	CTNF6	40.50
- 7-Year	CTNF7	40.50
9. Sustained Cell Rate Service (SCRS) Incremental Cell Transfer on a 155 Mbps port		
• Per 64 kbps increment of bandwidth		
- Month-To-Month	CTNEM	2.50
- 1-Year	CTNE1	2.38
- 2-Year	CTNE2	2.34
- 3-Year	CTNE3	2.31
- 4-Year	CTNE4	2.28
- 5-Year	CTNE5	2.25
- 6-Year	CTNE6	2.25
- 7-Year	CTNE7	2.25

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.5 RATES AND CHARGES**

**107.5.1 GENERAL**

C.9. (Cont'd)

	<b>USOC</b>	<b>MONTHLY RATE</b>
Sustained Cell Rate Service (SCRS) Incremental Cell Transfer on a 155 Mbps port		
• Per 1 Mbps increment of bandwidth		
- Month-To-Month	CTNCM	\$37.50
- 1-Year	CTNC1	35.63
- 2-Year	CTNC2	35.16
- 3-Year	CTNC3	34.69
- 4-Year	CTNC4	34.22
- 5-Year	CTNC5	33.75
- 6-Year	CTNC6	33.75
- 7-Year	CTNC7	33.75
• Per 1.544 Mbps increment of bandwidth		
- Month-To-Month	CTNFM	45.00
- 1-Year	CTNF1	42.75
- 2-Year	CTNF2	42.19
- 3-Year	CTNF3	41.63
- 4-Year	CTNF4	41.06
- 5-Year	CTNF5	40.50
- 6-Year	CTNF6	40.50
- 7-Year	CTNF7	40.50

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107. OBSOLETE ATM CELL RELAY SERVICE

107.5 RATES AND CHARGES

107.5.1 GENERAL

C. Cell Transfer (Cont'd)

	USOC	MONTHLY RATE
10. Sustained Cell Rate Service (SCRS), Maximum Burst Size - Per VCC		
• 32 Cells		
- Month-To-Month	CTSAM	—
- 1-Year	CTSA1	—
- 2-Year	CTSA2	—
- 3-Year	CTSA3	—
- 4-Year	CTSA4	—
- 5-Year	CTSA5	—
- 6-Year	CTSA6	—
- 7-Year	CTSA7	—
• 100 Cells		
- Month-To-Month	CTSBM	\$100.00
- 1-Year	CTSB1	95.00
- 2-Year	CTSB2	93.75
- 3-Year	CTSB3	92.50
- 4-Year	CTSB4	91.25
- 5-Year	CTSB5	90.00
- 6-Year	CTSB6	90.00
- 7-Year	CTSB7	90.00
• 200 Cells[1]		
- Month-To-Month	CTSCM	200.00
- 1-Year	CTSC1	190.00
- 2-Year	CTSC2	187.50
- 3-Year	CTSC3	185.00
- 4-Year	CTSC4	182.50
- 5-Year	CTSC5	180.00
- 6-Year	CTSC6	180.00
- 7-Year	CTSC7	180.00

[1] A Maximum Burst Size of 200 Cells requires the customer to purchase a minimum of 4 Mbps of Sustained Cell Rate Service for each VCC.

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.5 RATES AND CHARGES**

**107.5.1 GENERAL**

**C. Cell Transfer (Cont'd)**

	<b>USOC</b>	<b>MONTHLY RATE</b>
11. Unspecified Bit Rate Service (UBRS), Incremental Cell Transfer on a 1.544 Mbps port		
• Per 64 kbps increment of bandwidth		
- Month-To-Month	CTUEM	\$ 0.80
- 1-Year	CTUE1	0.76
- 2-Year	CTUE2	0.75
- 3-Year	CTUE3	0.74
- 4-Year	CTUE4	0.73
- 5-Year	CTUE5	0.72
- 6-Year	CTUE6	0.72
- 7-Year	CTUE7	0.72
• Per 1 Mbps increment of bandwidth		
- Month-To-Month	CTUCM	12.00
- 1-Year	CTUC1	11.40
- 2-Year	CTUC2	11.25
- 3-Year	CTUC3	11.10
- 4-Year	CTUC4	10.95
- 5-Year	CTUC5	10.80
- 6-Year	CTUC6	10.80
- 7-Year	CTUC7	10.80

(M) Material moved from Section 7.

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.5 RATES AND CHARGES**

**107.5.1 GENERAL**

C. Cell Transfer (Cont'd)

	<b>USOC</b>	<b>MONTHLY RATE</b>
12. Unspecified Bit Rate Service (UBRS), Incremental Cell Transfer on a 45 Mbps port		
• Per 64 kbps increment of bandwidth		
- Month-To-Month	CTUEM	\$ 0.80
- 1-Year	CTUE1	0.76
- 2-Year	CTUE2	0.75
- 3-Year	CTUE3	0.74
- 4-Year	CTUE4	0.73
- 5-Year	CTUE5	0.72
- 6-Year	CTUE6	0.72
- 7-Year	CTUE7	0.72
• Per 1 Mbps increment of bandwidth		
- Month-To-Month	CTUCM	12.00
- 1-Year	CTUC1	11.40
- 2-Year	CTUC2	11.25
- 3-Year	CTUC3	11.10
- 4-Year	CTUC4	10.95
- 5-Year	CTUC5	10.80
- 6-Year	CTUC6	10.80
- 7-Year	CTUC7	10.80

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.5 RATES AND CHARGES**

**107.5.1 GENERAL**

**C. Cell Transfer (Cont'd)**

	<b>USOC</b>	<b>MONTHLY RATE</b>
13. Unspecified Bit Rate Service (UBRS), Incremental Cell Transfer on a 155 Mbps port		
• Per 64 kbps increment of bandwidth		
- Month-To-Month	CTUEM	\$ 0.80
- 1-Year	CTUE1	0.76
- 2-Year	CTUE2	0.75
- 3-Year	CTUE3	0.74
- 4-Year	CTUE4	0.73
- 5-Year	CTUE5	0.72
- 6-Year	CTUE6	0.72
- 7-Year	CTUE7	0.72
• Per 1 Mbps increment of bandwidth		
- Month-To-Month	CTUCM	12.00
- 1-Year	CTUC1	11.40
- 2-Year	CTUC2	11.25
- 3-Year	CTUC3	11.10
- 4-Year	CTUC4	10.95
- 5-Year	CTUC5	10.80
- 6-Year	CTUC6	10.80
- 7-Year	CTUC7	10.80

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.5 RATES AND CHARGES**

**107.5.1 GENERAL (Cont'd)**

**D. Central Office Connecting Channel (COCC)**

**1. ATM CRS Level One COCC (up to 1.544 Mbps)**

<b>Per COCC</b>	<b>USOC</b>	<b>NONRECURRING CHARGE</b>	<b>MONTHLY RATE</b>
• Month-To-Month	CFNXM	\$25.00	\$0.65
• 1-Year	CFNX1	25.00	0.62
• 2-Year	CFNX2	25.00	0.61
• 3-Year	CFNX3	25.00	0.60
• 4-Year	CFNX4	25.00	0.59
• 5-Year	CFNX5	25.00	0.59
• 6-Year	CFNX6	25.00	0.59
• 7-Year	CFNX7	25.00	0.59

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**107. OBSOLETE ATM CELL RELAY SERVICE**

**107.5 RATES AND CHARGES**

**107.5.1 GENERAL**

D. Central Office Connecting Channel (COCC) (Cont'd)

2. ATM CRS Level Two COCC (up to 45 Mbps, or up to 155 Mbps)

	<b>USOC</b>	<b>NONRECURRING CHARGE</b>	<b>MONTHLY RATE</b>
Per COCC			
• Month-To-Month	CFNXM	\$30.00	\$12.50
• 1-Year	CFNX1	30.00	11.88
• 2-Year	CFNX2	30.00	11.72
• 3-Year	CFNX3	30.00	11.56
• 4-Year	CFNX4	30.00	11.41
• 5-Year	CFNX5	30.00	11.25
• 6-Year	CFNX6	30.00	11.25
• 7-Year	CFNX7	30.00	11.25

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**109. OBSOLETE LAN SWITCHING SERVICE**

(N)

<b>SUBJECT</b>	<b>PAGE</b>
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Rate and Charges .....	2

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**109. OBSOLETE LAN SWITCHING SERVICE**

**109.1 DESCRIPTION**

(N)

**109.1.1 GENERAL**

The services, offerings, and regulations specified in this Section are Grandfathered as of December 11, 2003, unless otherwise indicated.

Service Limitations (Unless otherwise indicated)

- Existing Service and Locations
  - May retain service as it is.
  - May renew Fixed Period Service Rate Plans for 12, 36 or 60 months, stay Monthly, move to Monthly, or move from Monthly to any Fixed Period Service Rate Plan
  - May upgrade to a higher speeds LAN Link(s) or go from an unprotected to a protected LAN Link
  - May elect to migrate to the LAN Switching Service (LSS) found in Section 9, preceding, and the nonrecurring charges and TLA will be waived
- New Service and Locations
  - New Service must be ordered out of Section 9, preceding
  - New locations added to existing service must be ordered out of Section 9 and set up on separate Term Plan

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**109. OBSOLETE LAN SWITCHING SERVICE**

**109.5 RATES AND CHARGES**

(N)

A. LAN Links

	<b>USOC</b>	<b>MONTHLY RATE</b>
1. Ethernet, 10 Mbps, without protection, per LAN Link		
• Month-to-Month	D5LCX	\$1,400.00
• 1-Year	DLUC1	1,330.00
• 3-Year	DLUC3	1,190.00
• 5-Year	DLUC5	1,120.00
2. Ethernet, 10 Mbps, with protection, per LAN Link		
• Month-to-Month	D5LCP	1,700.00
• 1-Year	DPUC1	1,615.00
• 3-Year	DPUC3	1,445.00
• 5-Year	DPUC5	1,360.00
3. Fast Ethernet Lite, 45 Mbps, without protection, per LAN Link		
• Month-to-Month	D5L1X	1,800.00
• 1-Year	DLU11	1,710.00
• 3-Year	DLU13	1,530.00
• 5-Year	DLU15	1,440.00

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**109. OBSOLETE LAN SWITCHING SERVICE**

**109.5 RATES AND CHARGES**

**A. LAN Links (Cont'd)**

(N)

	<b>USOC</b>	<b>MONTHLY RATE</b>
4. Fast Ethernet Lite, 45 Mbps, with protection, per LAN Link		
• Month-to-Month	D5L1P	\$2,100.00
• 1-Year	DPU11	1,995.00
• 3-Year	DPU13	1,785.00
• 5-Year	DPU15	1,680.00
5. Fast Ethernet, 100 Mbps, without protection, per LAN Link		
• Month-to-Month	D5L2X	2,800.00
• 1-Year	DLU21	2,660.00
• 3-Year	DLU23	2,380.00
• 5-Year	DLU25	2,240.00
6. Fast Ethernet, 100 Mbps, with protection, per LAN Link		
• Month-to-Month	D5L2P	3,900.00
• 1-Year	DPU21	3,700.00
• 3-Year	DPU23	3,300.00
• 5-Year	DPU25	3,120.00

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