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7. ATM SERVICE

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7. ATM SERVICE

7.1 DESCRIPTION

7.1.1 GENERAL

ATM Service 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 Service supports transmission speeds of up to 1.544 Mbps, 45 Mbps and 155 Mbps.

ATM Service offers Inverse Multiplexing over ATM (IMA). This allows a bandwidth option between DS1 (1.544 Mbps) and DS3 (45 Mbps) levels. IMA utilizes 2 to 8 DS1s and bundles them together to create a solid bandwidth increment of 3 Mbps, 4.6 Mbps, 6.1 Mbps, 7.7 Mbps, 9.2 Mbps, 10.7 Mbps or 12.3 Mbps. IMA is available over the following Service Classes Constant Bit Rate (CBR), Variable Bit Rate – non-real time (VBR-nrt) and Unspecified Bit Rate (UBR).

(N)

(N)

ATM Service 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 Service and must conform to standards set forth in technical publications listed in this document under Reference to Technical Publications. The terminal equipment accumulates customer traffic and puts it into a format suitable for transmission over the ATM Service Network.

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

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7.1 DESCRIPTION

7.1.1 GENERAL (CONT'D)

A customer may request that the facilities used to provide ATM Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Diversity) are set forth in the Private Line Transport Services Catalog, Section 4.

(D)

(D)

Interworking PVC (IPVC) is an available option that creates a connection between the ATM and Frame Relay Networks. Frame Relay to ATM interworking allows customers to complement the high-bandwidth transport capabilities of ATM with Frame Relay in order to provide a seamless transition to a single or multi-service network.

7. ATM SERVICE

7.1 DESCRIPTION

7.1.2 SERVICE ELEMENTS

A. Network Interface

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

B. ATM Access Links

(T)

1. DS1 Access Link

(T)

An ATM DS1 Access Link provides DS1 physical access to the ATM Service Network, connecting customer facilities at the User-Network Interface (UNI) over DS1 Private Line Transport facilities. The transport facilities transfer information through the network over logical connections at speeds selected by the customer.

2. IMA Access Link

(N)

An IMA Access Link utilizes 2 to 8 DS1s bundled for physical access to the ATM Service Network, connecting customer facilities at the User-Network Interface (UNI) over DS1 Private Line Transport facilities. The transport facilities transfer information through the network over logical connections at speeds selected by the customer.

(N)

3. Optical Access Link (OAL)

(T)

An ATM Service Optical Access Link provides access to the ATM Service Network, connecting customer facilities at the network interface with a corresponding ATM Service Cell Transfer element. An ATM Service Optical Access Link is only available at ATM Service 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 Section 5 of the Competitive Private Line Transport Services Price Cap Tariff, is used to provide access to a 1.544 Mbps Cell Transfer. The DS1 CT provides access to the Company ATM Service 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 Service Optical Access Link may be ordered with 45 or 155 Mbps OAL Protection.

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7.1 DESCRIPTION

7.1.2 SERVICE ELEMENTS

B. ATM Access Links (Cont'd)

4. Stand-Alone Optical Access Link (SAOAL)

(T)(M)

An ATM Service Stand-Alone Optical Access Link connects customer facilities to 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 Service provider. At the customer's option, a Stand-Alone Optical Access Link may be ordered with 45 or 155 Mbps OAL Protection.

(M)

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7. ATM SERVICE

7.1 DESCRIPTION

7.1.2 SERVICE ELEMENTS (CONT'D)

C. ATM and IMA Ports (C)

ATM and IMA ports are the physical entry points into the ATM Service 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 Service Network. They enable customers to allocate bandwidth to applications at customer-designated transmission speeds of up to 1.544 Mbps, 3 Mbps, 4.6 Mbps, 6.1 Mbps, 7.7 Mbps, 9.2 Mbps, 10.7 Mbps, 12.3 Mbps, 45 Mbps or 155 Mbps. (C)

D. Service Points (T)

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

E. Logical Connections (T)

ATM Service logical connections function as bidirectional Permanent Virtual Connections (PVCs). ATM Service supports a point-to-point logical connection configuration between two ports. Logical Connections (PVCs) may be any of five Service Classes: Constant Bit Rate (CBR), Variable Bit Rate – real time (VBR-rt) and Variable Bit Rate – non-real time (VBR-nrt), Available Bit Rate (ABR) or Unspecified Bit Rate (UBR).

1. Virtual Channel Connections (VCC)

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

VCCs are available with all Service Classes at selected Cell Transfer speed(s) depending on the customer's networking requirements which include appropriate overheads.

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7.1 DESCRIPTION

7.1.2 SERVICE ELEMENTS

E. Logical Connections (Cont'd) (T)

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 Constant Bit Rate (CBR), Variable Bit Rate – real time (VBR-rt), Variable Bit Rate – non-real time (VBR-nrt), at customer-selected Cell Transfer speed(s), depending on the customer's networking requirements. (C)
(C)

3. Logical connections are available at base speeds (64 kbps, 75 kbps, 1 Mbps or 1.787 Mbps) determined by the speed of the ATM and IMA Ports and the Service Classes selected (1.544 Mbps, 3 Mbps, 4.6 Mbps, 6.1 Mbps, 7.7 Mbps, 9.2 Mbps, 10.7 Mbps, 12.3 Mbps, 45 Mbps or 155 Mbps). The customer selects a base speed for each VCC or VPC they purchase which includes appropriate overheads. The bandwidth for each VCC or VPC is determined by multiplying the base speed by the number of increments of the base speed selected by the customer, 64 kbps is available up to 1.544 Mbps only. Technical Specifications for ATM Service are delineated in Qwest Corporation Technical Publication PUB 77378. (C)
|
(C)
(T)
(T)

Logical connections are available at the following incremental base speeds:

CELL TRANSFER RATES OF SPEED:

• Constant Bit Rate (CBR)

- 64 kbps
- 75 kbps
- 1 Mbps
- 1.787 Mbps

• Variable Bit Rate – real time (VBR-rt), Variable Bit Rate – non-real time (VBR-nrt), and Available Bit Rate (ABR) and Unspecified Bit Rate (UBR)

- 64 kbps
- 1 Mbps

NOTICE

THE INFORMATION CONTAINED IN THIS DOCUMENT IS SUBJECT TO CHANGE.

7. ATM SERVICE

7.1 DESCRIPTION

7.1.2 SERVICE ELEMENTS

E.3. (Cont'd)

(T)

A customer may select multiple logical connections of different service classes on an ATM Service Port. The maximum speed of a single logical connection may not exceed 40.7 Mbps on a 45 Mbps port or 149 Mbps on a 155 Mbps port.

F. Service Classes

(T)

ATM Service logical connections are provided as Constant Bit Rate (CBR), Variable Bit Rate – real time (VBR-rt), Variable Bit Rate – non-real time (VBR-nrt), Available Bit Rate (ABR) or Unspecified Bit Rate (UBR).

- Constant Bit Rate (CBR)

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

(C)

- Variable Bit Rate – real time (VBR-rt)

Supports bursty data traffic, with average and peak traffic parameters (e.g. voice and video applications). The VBR-rt is described by values representing a Sustained Cell Rate (SCR) and Peak Cell Rate (PCR). The SCR is the maximum average cell transmission rate on a given VCC. It allows the network to allocate sufficient network resources to guarantee network performance objectives. The SCR applies only to VBR traffic. The PCR is the maximum cell transmission rate (cells per second) per VCC. Maximum Burst Size (MBS) is used to define the maximum number of cells that can be sent at the PCR on an SCR connection at one time.

7. ATM SERVICE

7.1 DESCRIPTION

7.1.2 SERVICE ELEMENTS

F. Service Classes (Cont'd)

(T)

- Variable Bit Rate – non real time (VBR-nrt)

Supports bursty data traffic, with average and peak traffic parameters, which is transported immediately (e.g. LAN and video applications). The VBR-rt is described by values representing a Sustained Cell Rate (SCR) and Peak Cell Rate (PCR). The SCR is the maximum average cell transmission rate on a given VCC. It allows the network to allocate sufficient network resources to guarantee network performance objectives. The SCR applies only to VBR traffic. The PCR is the maximum cell transmission rate (cells per second) per VCC. Maximum Burst Size (MBS) is used to define the maximum number of cells that can be sent at the PCR on an SCR connection at one time.

The Maximum Burst Size (MBS) is the maximum number of cells that can be sent at the peak cell rate on a Variable Bit Rate – real time (VBR-rt) or Variable Bit Rate – non real time (VBR-nrt) connection at one time. Sending a burst at MBS will require the connection to reduce its data rate below the sustained cell rate for a fixed period of time before the next burst can be sent. The maximum burst size levels available are:

- 100 Cells
- 200 Cells

The 100 cell burst size will be assigned unless the customer requests 200 cell burst.

- Available Bit Rate (ABR)

ATM layer transfer characteristics provided by the network may change subsequent to connection establishment, suitable for bursty data applications. A Minimum Cell Rate (MCR) and PCR will be applied to facilitate the bandwidth management based on a feedback mechanism.

7. ATM SERVICE

7.1 DESCRIPTION

7.1.2 SERVICE ELEMENTS

F. Service Classes (Cont'd)

(T)

- Unspecified Bit Rate (UBR)

UBR 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 UBR logical connections, the cells are discarded upon entry into the ATM Network. The Peak Cell Rate of a UBR logical connection may equal, but not exceed, the speed of the associated port.

G. Cell Transfer

(T)

The Cell Transfer service element transfers information between Network Interfaces connected to the ATM Service 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 CBR, VBR-rt, VBR-nrt, ABR or UBR.

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

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7. ATM SERVICE

7.1 DESCRIPTION

7.1.2 SERVICE ELEMENTS (CONT'D)

H. Central Office Connecting Channel (COCC)

(T)

A COCC provides the ongoing interconnection from the multiplexer or other Company facility port to an ATM Service port when a customer accesses ATM Service via a private line transport facility which requires multiplexing to be compatible with ATM Service 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. The customer must designate whether the Cell Transfer for each logical connection is CBR, VBR-rt, VBR-nrt, ABR or UBR.

I. 45 or 155 Mbps OAL Protection Option

(T)

45 or 155 Mbps OAL Protection provides added reliability to ATM Service 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 Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Diversity) are set forth in the Private Line Transport Services Catalog, Section 4.

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 to the minus 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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7. ATM SERVICE

(N)

7.2 GENERAL TERMS AND CONDITIONS

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

7.2.1 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 Service classes.

7.3 RATE REGULATIONS

- A. The initial order for ATM Service must be for a fixed period of one, two, three, four or five 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. Effective March 1, 2002, the six and seven year fixed period plans will no longer be available to new customers or for renewal by existing customers.
- B. A subsequent order to add ATM Service 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, or five 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 Service 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 Service via an Optical Access Link or via Company-provided, digital private line services. A customer utilizing private line services to access ATM Service does not incur a nonrecurring charge or monthly rate for an ATM Service 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 Service, as set forth in 7.4.

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7. ATM SERVICE

7.4. RATE ELEMENTS

7.4.1 GENERAL

A. ATM Access Link (T)

1. DS1 Access Link (T)

A nonrecurring charge and monthly rate apply per DS1.

2. IMA Access Link (N)

A nonrecurring charge and monthly rate apply per DS1 bundle. When increasing the number of existing Mbps, a subsequent order charge will apply per 1.544 Mbps increment added.

3. Optical Access Link (OAL) (T)

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 Service Network. When a customer accesses a 1.544 Mbps ATM Service via a Private Line Transport Service DS1 Channel Termination (CT) with Clear Channel Capability, rates and charges apply, as set forth in Section 5 of the Private Line Transport Services Catalog. At the customer's option, an ATM Service Optical Access Link may be ordered with 45 or 155 Mbps OAL Protection.

4. Stand-Alone Optical Access Link (SAOAL) (T)

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.

B. ATM and IMA Ports (N)

A nonrecurring and recurring charge applies per port based on the transmission speed. ATM Port transmission speeds are 1.544 Mbps, 45 Mbps and 155 Mbps. IMA Port transmission speeds are 3 Mbps, 4.6 Mbps, 6.1 Mbps, 7.7 Mbps, 9.2 Mbps, 10.7 Mbps and 12.3 Mbps. When increasing the number of existing Mbps associated with an IMA Port, a subsequent order charge will apply per 1.544 Mbps increment added.

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7. ATM SERVICE

7.4. RATE ELEMENTS

7.4.1 GENERAL (CONT'D)

C. Cell Transfer

(T)M

A nonrecurring charge applies to each logical connection (VCC or VPC) on an ATM Service configuration. A monthly rate applies for the total bandwidth of all logical connections, based on the Service Classes, CBR, VBR-rt, VBR-nrt, ABR or UBR, the number of 64 kbps, 75 kbps 1 Mbps, 1.544 Mbps or 1.787 Mbps increments of bandwidth provided on the connections.

Bandwidth increments of 75 kbps and 1.787 Mbps are only available with the CBR Service Class.

(M)

D. Central Office Connecting Channel (COCC)

(T)

A nonrecurring charge and a monthly rate apply per COCC, per speed of up to 1.544 Mbps, up to 45 Mbps, or up to 155 Mbps. The COCC charges are applicable only if the ATM Access Link is provided by the customer or is provided out of Section 7, preceding or Section 15, following.

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7. ATM SERVICE

7.5 RATES AND CHARGES

7.5.1 GENERAL

A. DS1 Access Link

	USOC	NONRECURRING CHARGE	MONTHLY RATE
1. 1.544 Mbps, per Access Link			
• Month-To-Month	N7A1M	\$ 500.00	\$138.00
• 1-Year	N7A11	500.00	131.10
• 2-Year	N7A12	500.00	124.20
• 3-Year	N7A13	500.00	117.30
• 4-Year	N7A14	500.00	114.54
• 5-Year	N7A15	500.00	110.40

B. IMA Access Link

1. 3 Mbps, per Access Link			
• Month-To-Month	N7A1M	1,000.00	276.00
• 1-Year	N7A11	1,000.00	262.20
• 2-Year	N7A12	1,000.00	248.40
• 3-Year	N7A13	1,000.00	234.60
• 4-Year	N7A14	1,000.00	229.08
• 5-Year	N7A15	1,000.00	220.80

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7.5 RATES AND CHARGES

.5.1 GENERAL

B. IMA Access Link (Cont'd)

	USOC	NONRECURRING CHARGE	MONTHLY RATE	(N)
2. 4.6 Mbps, per Access Link				
• Month-To-Month	N7A1M	\$1,500.00	\$414.00	
• 1-Year	N7A11	1,500.00	393.30	
• 2-Year	N7A12	1,500.00	372.60	
• 3-Year	N7A13	1,500.00	351.90	
• 4-Year	N7A14	1,500.00	343.62	
• 5-Year	N7A15	1,500.00	331.20	
3. 6.1 Mbps, per Access Link				
• Month-To-Month	N7A1M	2,000.00	552.00	
• 1-Year	N7A11	2,000.00	524.40	
• 2-Year	N7A12	2,000.00	496.80	
• 3-Year	N7A13	2,000.00	469.20	
• 4-Year	N7A14	2,000.00	458.16	
• 5-Year	N7A15	2,000.00	441.60	(N)

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7.5 RATES AND CHARGES

7.5.1 GENERAL

B. IMA Access Link (Cont'd)

	USOC	NONRECURRING CHARGE	MONTHLY RATE	(N)
4. 7.7 Mbps, per Access Link				
• Month-To-Month	N7A1M	\$2,500.00	\$690.00	
• 1-Year	N7A11	2,500.00	655.50	
• 2-Year	N7A12	2,500.00	621.00	
• 3-Year	N7A13	2,500.00	586.50	
• 4-Year	N7A14	2,500.00	572.70	
• 5-Year	N7A15	2,500.00	552.00	
5. 9.2 Mbps, per Access Link				
• Month-To-Month	N7A1M	3,000.00	828.00	
• 1-Year	N7A11	3,000.00	786.60	
• 2-Year	N7A12	3,000.00	745.20	
• 3-Year	N7A13	3,000.00	703.80	
• 4-Year	N7A14	3,000.00	687.24	
• 5-Year	N7A15	3,000.00	662.40	(N)

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7.5 RATES AND CHARGES

7.5.1 GENERAL

B. IMA Access Link (Cont'd)

	USOC	NONRECURRING CHARGE	MONTHLY RATE	(N)
6. 10.7 Mbps, per Access Link				
• Month-To-Month	N7A1M	\$3,500.00	\$ 966.00	
• 1-Year	N7A11	3,500.00	917.70	
• 2-Year	N7A12	3,500.00	869.40	
• 3-Year	N7A13	3,500.00	821.10	
• 4-Year	N7A14	3,500.00	801.78	
• 5-Year	N7A15	3,500.00	772.80	
7. 12.3 Mbps, per Access Link				
• Month-To-Month	N7A1M	4,000.00	1,104.00	
• 1-Year	N7A11	4,000.00	1,048.80	
• 2-Year	N7A12	4,000.00	993.60	
• 3-Year	N7A13	4,000.00	938.40	
• 4-Year	N7A14	4,000.00	916.32	
• 5-Year	N7A15	4,000.00	883.20	
		NONRECURRING CHARGE		
	USOC			
• Per Subsequent Order for IMA Access Link, per 1.544 Mbps, DS1	NHCBL	\$500.00		(N)

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7.5 RATES AND CHARGES

7.5.1 GENERAL (CONT'D)

C. Optical Access Link

(T)

	USOC	NONRECURRING CHARGE	MONTHLY RATE
1. 45 Mbps, per Access Link			
• Month-To-Month	N7AXM	\$1,000.00	\$ 914.00
• 1-Year	N7AX1	1,000.00	868.30
• 2-Year	N7AX2	1,000.00	822.60
• 3-Year	N7AX3	1,000.00	776.90
• 4-Year	N7AX4	1,000.00	758.62
• 5-Year	N7AX5	1,000.00	731.20
2. 45 Mbps optioned with protection, per Access Link			
• Month-To-Month	N7ARM	1,500.00	1,650.00
• 1-Year	N7AR1	1,500.00	1,567.50
• 2-Year	N7AR2	1,500.00	1,485.00
• 3-Year	N7AR3	1,500.00	1,402.50
• 4-Year	N7AR4	1,500.00	1,369.50
• 5-Year	N7AR5	1,500.00	1,320.00

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7.5 RATES AND CHARGES

7.5.1 GENERAL

C. Optical Access Link (Cont'd)

(T)

	USOC	NONRECURRING CHARGE	MONTHLY RATE
3. 155 Mbps, per Access Link			
• Month-To-Month	N7AXM	\$1,000.00	\$1,371.00
• 1-Year	N7AX1	1,000.00	1,302.45
• 2-Year	N7AX2	1,000.00	1,233.90
• 3-Year	N7AX3	1,000.00	1,165.35
• 4-Year	N7AX4	1,000.00	1,137.93
• 5-Year	N7AX5	1,000.00	1,096.80
4. 155 Mbps optioned with protection, per Access Link			
• Month-To-Month	N7ARM	1,500.00	3,504.00
• 1-Year	N7AR1	1,500.00	3,328.80
• 2-Year	N7AR2	1,500.00	3,153.60
• 3-Year	N7AR3	1,500.00	2,978.40
• 4-Year	N7AR4	1,500.00	2,908.32
• 5-Year	N7AR5	1,500.00	2,803.20

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7.5.1 GENERAL (CONT'D)

D. Stand-Alone Optical Access Link

(T)

	USOC	NONRECURRING CHARGE	MONTHLY RATE
1. 45 Mbps, per Access Link			
• Month-To-Month	N1AXM	\$1,000.00	\$ 914.00
• 1-Year	N1AX1	1,000.00	868.30
• 2-Year	N1AX2	1,000.00	822.60
• 3-Year	N1AX3	1,000.00	776.90
• 4-Year	N1AX4	1,000.00	758.62
• 5-Year	N1AX5	1,000.00	731.20
2. 45 Mbps optioned with protection, per Access Link			
• Month-To-Month	N1ARM	1,500.00	1,650.00
• 1-Year	N1AR1	1,500.00	1,567.50
• 2-Year	N1AR2	1,500.00	1,485.00
• 3-Year	N1AR3	1,500.00	1,402.50
• 4-Year	N1AR4	1,500.00	1,369.50
• 5-Year	N1AR5	1,500.00	1,320.00

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7.5.1 GENERAL

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

(T)

	USOC	NONRECURRING CHARGE	MONTHLY RATE
3. 155 Mbps, per Access Link			
• Month-To-Month	N1AXM	\$1,000.00	\$1,371.00
• 1-Year	N1AX1	1,000.00	1,302.45
• 2-Year	N1AX2	1,000.00	1,233.90
• 3-Year	N1AX3	1,000.00	1,165.35
• 4-Year	N1AX4	1,000.00	1,137.93
• 5-Year	N1AX5	1,000.00	1,096.80
4. 155 Mbps optioned with protection, per Access Link			
• Month-To-Month	N1ARM	1,500.00	3,504.00
• 1-Year	N1AR1	1,500.00	3,328.80
• 2-Year	N1AR2	1,500.00	3,153.60
• 3-Year	N1AR3	1,500.00	2,978.40
• 4-Year	N1AR4	1,500.00	2,908.32
• 5-Year	N1AR5	1,500.00	2,803.20

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7.5.1 GENERAL (CONT'D)

E. ATM Ports:

(T)

	USOC	NONRECURRING CHARGE	MONTHLY RATE
1. 1.544 Mbps Fixed Rate, per port			
• Month-To-Month	C3TXM	\$200.00	\$240.00
• 1-Year	C3TX1	200.00	228.00
• 2-Year	C3TX2	200.00	216.00
• 3-Year	C3TX3	200.00	204.00
• 4-Year	C3TX4	200.00	199.20
• 5-Year	C3TX5	200.00	192.00

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7.5.1 GENERAL (CONT'D)
E. ATM Ports: (Cont'd)

2. IMA Ports

	USOC	NONRECURRING CHARGE	MONTHLY RATE
• 3 Mbps , per port			
- Month-To-Month	UUTAX	\$400.00	\$480.00
- 1-Year	UUTA1	400.00	456.00
- 2-Year	UUTA2	400.00	432.00
- 3-Year	UUTA3	400.00	408.00
- 4-Year	UUTA4	400.00	398.40
- 5-Year	UUTA5	400.00	384.00
• 4.6 Mbps , per port			
- Month-To-Month	UUTBX	600.00	720.00
- 1-Year	UUTB1	600.00	684.00
- 2-Year	UUTB2	600.00	648.00
- 3-Year	UUTB3	600.00	612.00
- 4-Year	UUTB4	600.00	597.60
- 5-Year	UUTB5	600.00	576.00

(N)

(N)

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7.5.1 GENERAL (CONT'D)
E. ATM Ports
2. IMA Ports (Cont'd)

	USOC	NONRECURRING CHARGE	MONTHLY RATE	(N)
• 6.1 Mbps , per port				
- Month-To-Month	UUTCX	\$ 800.00	\$ 960.00	
- 1-Year	UUTC1	800.00	912.00	
- 2-Year	UUTC2	800.00	864.00	
- 3-Year	UUTC3	800.00	816.00	
- 4-Year	UUTC4	800.00	796.80	
- 5-Year	UUTC5	800.00	768.00	
• 7.7 Mbps , per port				
- Month-To-Month	UUTDX	1,000.00	1,200.00	
- 1-Year	UUTD1	1,000.00	1,140.00	
- 2-Year	UUTD2	1,000.00	1,080.00	
- 3-Year	UUTD3	1,000.00	1,020.00	
- 4-Year	UUTD4	1,000.00	996.00	
- 5-Year	UUTD5	1,000.00	960.00	(N)

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7.5.1 GENERAL (CONT'D)

- E. ATM Ports
 - 2. IMA Ports (Cont'd)

	USOC	NONRECURRING CHARGE	MONTHLY RATE	(N)
• 9.2 Mbps , per port				
- Month-To-Month	UUTEX	\$1,200.00	\$1,440.00	
- 1-Year	UUTE1	1,200.00	1,368.00	
- 2-Year	UUTE2	1,200.00	1,296.00	
- 3-Year	UUTE3	1,200.00	1,224.00	
- 4-Year	UUTE4	1,200.00	1,195.20	
- 5-Year	UUTE5	1,200.00	1,152.00	
• 10.7 Mbps , per port				
- Month-To-Month	UUTFX	1,400.00	1,680.00	
- 1-Year	UUTF1	1,400.00	1,596.00	
- 2-Year	UUTF2	1,400.00	1,512.00	
- 3-Year	UUTF3	1,400.00	1,428.00	
- 4-Year	UUTF4	1,400.00	1,394.40	
- 5-Year	UUTF5	1,400.00	1,344.00	(N)

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7.5.1 GENERAL (CONT'D)
E. ATM Ports
2. IMA Ports (Cont'd)

	USOC	NONRECURRING CHARGE	MONTHLY RATE	(N)
• 12.3 Mbps , per port				
- Month-To-Month	UUTGX	\$1,600.00	\$1,920.00	
- 1-Year	UUTG1	1,600.00	1,824.00	
- 2-Year	UUTG2	1,600.00	1,728.00	
- 3-Year	UUTG3	1,600.00	1,632.00	
- 4-Year	UUTG4	1,600.00	1,593.60	
- 5-Year	UUTG5	1,600.00	1,536.00	
		NONRECURRING CHARGE		
• Per Subsequent Order for IMA Ports, per 1.544 Mbps, DS1	NHCBM	\$200.00		(N)

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7.5 RATES AND CHARGES

7.5.1 GENERAL

E. ATM Ports: (Cont'd)

	USOC	NONRECURRING CHARGE	MONTHLY RATE	
3. 45 Mbps Fixed Rate, per port				(T)
• Month-To-Month	C3TXM	\$200.00	\$ 600.00	
• 1-Year	C3TX1	200.00	570.00	
• 2-Year	C3TX2	200.00	540.00	
• 3-Year	C3TX3	200.00	510.00	
• 4-Year	C3TX4	200.00	498.00	
• 5-Year	C3TX5	200.00	480.00	
4. 155 Mbps Fixed Rate, per port				
• Month-To-Month	C3TXM	200.00	1,090.00	
• 1-Year	C3TX1	200.00	1,035.50	
• 2-Year	C3TX2	200.00	981.00	
• 3-Year	C3TX3	200.00	926.50	
• 4-Year	C3TX4	200.00	904.70	
• 5-Year	C3TX5	200.00	872.00	(T)

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7.5 RATES AND CHARGES

7.5.1 GENERAL (CONT'D)

F. Cell Transfer

(T)

	USOC	NONRECURRING CHARGE
• Per VCC	NHCNA	\$100.00
• Per VPC	NHCNB	100.00
• Per Subsequent Order for VCC or VPC	NR9AZ	160.00

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7.5 RATES AND CHARGES

7.5.1 GENERAL

F. Cell Transfer (Cont'd)

(T)

	USOC	MONTHLY RATE
• Constant Bit Rate (CBR), 1.544 Mbps port		
• Per 64 kbps[1] Increment of total bandwidth		
- Month-To-Month	CTNSM	\$ 3.20
- 1-Year	CTNS1	3.04
- 2-Year	CTNS2	2.88
- 3-Year	CTNS3	2.72
- 4-Year	CTNS4	2.66
- 5-Year	CTNS5	2.56
• Per 75 kbps[1] Increment of total bandwidth		
- Month-To-Month	CTNWM	3.71
- 1-Year	CTNW1	3.53
- 2-Year	CTNW2	3.34
- 3-Year	CTNW3	3.16
- 4-Year	CTNW4	3.08
- 5-Year	CTNW5	2.97
• Per 1 Mbps Increment of total bandwidth		
- Month-To-Month	CTNUM	45.00
- 1-Year	CTNU1	42.75
- 2-Year	CTNU2	40.50
- 3-Year	CTNU3	38.25
- 4-Year	CTNU4	37.35
- 5-Year	CTNU5	36.00

[1] 64 kbps and 75 kbps PVC increments are only available up to 1.536 Mbps.