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December 3, 2004

Ms. Beth W. Salak, Director
Division of Competitive Markets and Enforcement
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Dear Ms. Salak:

Attached are copies of new tariff pages filed as part of our Verizon Florida Inc. Facilities for Intrastate Tariff. See Attachment A for a listing of the impacted tariff sheets.

The purpose of this filing is to grandfather Asynchronous Transfer Mode (ATM) Service to existing customers.

If you require additional information, please contact Carlton A. Ball at (813) 483-2529.

Sincerely,
David M. Christian
Assistant Vice President
Regulatory Affairs Florida

DMC:sv
Attachments

Facilities for Intrastate Access

Section 15 Advanced Data Services

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VERIZON FLORIDA INC.
ATM Grandfathering
Executive Summary

INTRODUCTION

Verizon is proposing to grandfather Asynchronous Transfer Mode (ATM) service in the state of Florida. ATM Service as provided in Section 15.1 of the Facilities for Intrastate Access Tariff will no longer be available to new customers. Existing customers may continue their service until their contract expires or their service is disconnected, whichever occurs first. Moves, additions or changes will not be permitted.

Termination Liability as described in the tariff will not apply if a customer's OPP expires or discontinues service to subscribe to ATM Cell Relay Service or an extended Service Plan or equal or greater value than the remaining contract.

The purpose of this filing is to grandfather the existing Florida ATM service offering, so that a newly standardized ATM service offering can be added to the local tariff. The objective of the ATM standardization project is to create a uniform ATM product across the entire Verizon footprint.

A new ATM service that is being introduced is driven by the need to introduce new features that offer value-added services to our customers and help Verizon remain competitive across our footprint. Switched Virtual Circuits (SVCs) and Unspecified Bit Rate (UBR) enhance the value of Cell Relay service to our customers by making it more flexible and efficient. OC12c ports meet customers' need for higher-speed cell relay service, driven by new bandwidth-intensive applications or the need to aggregate many remote ports onto a large ATM hub port. The various options for loop design provide our customers with the appropriate balance between cost savings and disaster avoidance for their applications.

PRODUCT DESCRIPTION

ATM Service is a form of "fast packet" switching service for high-speed networks, which requires flexible bandwidth, high performance transport and switching for connectivity between and among widely distributed customer locations. ATM is a cell-based, connection-oriented, switching and multiplexing technology designed to be a fast, general-purpose transfer mode for multiple services.

COMPETITIVE ALTERNATIVES

The following companies offer same or similar services:

1. IXC's offering ATM services – AT&T, MCI, Sprint.
2. RBOC's offering ATM service – SBC.
3. DLEC's (Data LEC's) – New Edge Networks.

These companies offer ATM services directly to the End Users of Verizon franchise markets through the use of directly built facilities, or when facilities are not offered, within their own network. They will often order special access DS1, DS3 facilities from Verizon and then connect them to their ATM networks which provide Local and Long Distance access.

CURRENT CUSTOMERS

Currently there are 64 unique customers (not including branches, etc) in the state of Florida.

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(A) General

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15.1 Asynchronous Transfer Mode (ATM) (Continued)

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115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (N)

Discontinued. Effective December 18, 2004 Asynchronous Transfer Mode (ATM) as described in Section 115.4 will be continued for existing customers only. Existing customers on an Optional Payment Plan (OPP) may continue their service until their OPP expires or their service is disconnected, whichever occurs first. Installations, moves, additions or changes will not be permitted. Termination Liability as described in this section will not apply if a customer with an existing OPP discontinues service to subscribe to Asynchronous Transfer Mode Cell Relay Service on an Extended Service Plan of equal or greater value than the remaining OPP. (N)

115.4.1 Service Description (M)

Asynchronous Transfer Mode (ATM) Service is a form of "fast packet" switching service for high speed networks which require flexible bandwidth, high-performance transport and switching for connectivity between and among widely distributed Customer locations. ATM is a cell-based, connection-oriented, switching and multiplexing technology designed to be a fast, general-purpose transfer mode for multiple services.

ATM Network Service conforms to protocol standards created by the ITU-T (Telecommunication Standardization Bureau of the International Telecommunication Union), formerly Consultative Committee for International Telegraph and Telephone (CCITT) and American National Standards Institute (ANSI), publications T1.511, T1.627 and T1.630.

ATM is a high-bandwidth medium with low delay and has the capability to be switched to a specific destination.

ATM Service is available where facilities and conditions permit.

115.4.2 Service Provisioning

ATM is a data networking technology that uses 53 byte cells, consisting of a 5 byte header which contains addressing, payload type and network priority information and a 48 byte payload for data. The cells are transmitted through an ATM network in a "real time" (low delay in transmission) or "non-real time" sensitive manner on virtual channels.

ATM Service can be provisioned over DS1, DS3, OC3c, and OC12c access channels. (M)

(A) UNI Port and Access Line (M¹)

Customers can subscribe to ATM Service based on the speed of the port connection (i.e., DS1, DS3, OC3c or OC12c facilities) applicable for each physical connection to the network switch supporting ATM service. A port is the entry point on the switch to which Customer is connected. Ports are available which allow connection to the ATM network at speeds of DS1 to OC12c. Each port can accommodate multiple PVCs. UNI Port and Access Lines are available on a one-, three- or five-year Optional Payment Plan (OPP).

(B) UNI Port Only

Customers can order port only access based on the speed of port connection (i.e., DS1, DS3, OC3c or OC12c facilities) applicable for each access line or digital private line connection to the network switch supporting ATM Service. Each port can accommodate multiple PVCs. UNI Port Only is available on a one-, three- or five-year Optional Payment Plan (OPP).

The associated regulations, rates and charges from Section 7 are in addition to the rates and charges associated with the ATM rate elements. Local channel, interoffice channel mileage and hub termination rates for DS3, OC3, and OC12c access channels and/or interoffice channels shall be provisioned on an Individual Case Basis (ICB). (M¹)

(M) Material previously appeared in Section 15.1, Page 1. (N)
 (M¹) Material previously appeared in Section 15.1, Page 2. (N)

115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.2 Service Provisioning (Continued)

Permanent Virtual Circuits (PVCs) are logical circuits that define a specific path for data sent by Customer to another location. These circuits are virtual because they are established in software tables and do not tie up capacity when not in use. This also allows multiple paths (PVCs) to be defined on any given port, thereby providing a single access line the capability to transmit data to multiple destinations.

Permanent Virtual Path (PVP) provides for aggregation of multiple PVCs into a single path. The traffic management parameters for all PVCs in the PVP must be defined at the same level of service. All PVCs in the PVP must have the same originating and terminating end ports. The applicable SCR and PCR rates apply for the aggregate SCR and PCR of all the PVCs in the PVP.

Customers can subscribe to pricing scheme(s), which charge for Sustained Cell Rate (SCR). SCR is an amount of bandwidth that Company commits to providing in the network for Customer traffic. SCR is set for every PVC defined.

Company ATM switches are responsible for guaranteeing the traffic priority parameter ordered by Customer. Traffic prioritization parameters refer to priorities given to cell transmissions and sensitivity of cells to delay variation and loss within the network. Constant Bit Rate (CBR) traffic is given first priority, Variable Bit Rate-Real Time (VBR-rt) traffic is given second priority and Variable Bit Rate-Non Real Time (VBR-nrt) traffic is given third priority, based upon the traffic in the network at any given point in time.

There are three traffic prioritization parameter categories:

- (1) Constant Bit Rate (CBR): An ATM traffic management parameter that supports the transmission of a continuous bit stream of traffic from those applications such as video, voice, and circuit emulation, which require rigorous timing control and performance parameters.
- (2) Variable Bit Rate-Real Time (VBR-rt): An ATM traffic management parameter that allows for applications where a PVC requires low cell delay variation. For example, VBR-rt would be utilized for applications such as variable bit rate video compression, and packet voice and video, which are somewhat tolerant of delay.
- (3) Variable Bit Rate-Non Real Time (VBR-nrt): An ATM traffic management parameter that allows for applications where a PVC can tolerate larger cell delay variation than VBR-rt. For example VBR-nrt would be utilized for applications such as data file transfers.

In ATM transmission, Peak Cell Rate (PCR) is the highest available rate of information that can be transferred on a Variable Bit Rate connection, and the continuous cell rate allowed for Constant Bit Rate. Cells exceeding the Sustained Cell Rate and below the Peak Cell Rate will be limited to a maximum burst size. Customers may purchase PCR in 1 Mbps increments.

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(M) Material previously appeared in Section 15.1 Page 3.

(M¹) Material previously appeared in Section 15.1 Page 4.

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115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.2 Service Provisioning (Continued)

Frame Relay to ATM Service Interworking:

(M)

An end user may send data from a premise location with a Frame Relay User to Network Interface (UNI) or a Network to Network Interface (NNI) to another premise with an Asynchronous Transfer Mode (ATM) Service UNI. Frame Relay to ATM Service Interworking provides for the conversion of Frame Relay packets to ATM cells and the conversion of ATM Cells to Frame Relay packets. Frame Relay Service(s) and ATM Service(s) must be established in order to provision a Frame Relay to ATM Service Interworking PVC. This conversion occurs between bandwidth equivalent CIR (Committed Information Rates) and SCR (Sustained Cell Rates). Cell conversion occurs at VBR-nrt.

115.4.3 Obligations of Company

Company is responsible for service up to and including the network interface device.

Company shall provision service over facilities suitable for ATM transmission, where available, for the effective maximum data rates of a DS1 (1.536 Mbps per second), DS3 (44.2 Mbps per second), OC3c (155 Mbps per second, concatenated) or OC12c (622.08 Mbps per second, concatenated).

Occasionally, in order to perform software updates and other maintenance, it may be necessary to take the ATM switch out of service, during the predetermined maintenance window of 12:01 a.m. to 6:00 a.m. In these cases, all attempts will be made to notify Customer in advance as to the time and duration of these outages. Company reserves the right to temporarily interrupt ATM Service at other times in emergency situations.

(M)

115.4.4 Obligations of Customer

(M¹)

Customer must provide compatible equipment in accordance with interface specifications defined in ANSI Standards for ATM services.

Customer is responsible for the installation, operation and maintenance of any Customer provided equipment (CPE).

Customer must specify the speed for each ATM port ordered. Customer must specify the SCR, PCR, and traffic management parameters at the time of the order for each PVC.

Customer shall be responsible for obtaining permission for Company's agents or employees to enter Customer's designated location(s) at any reasonable hour for the purpose of installing, inspecting, repairing, or, upon termination of the service, removing the service components of Company.

Customer must provide to Company a point of contact with information to include the contact name, telephone number, mailing address, and electronic mail (e-mail) address for notification purposes.

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(M) Material previously appeared in Section 15.1 Page 5.

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(M¹) Material previously appeared in Section 15.1 Page 6.

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115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.5 Rate Regulations

(A) Minimum Period

The minimum period for ATM Network Service is one year, except when provided under an Optional Payment Plan (OPP) arrangement. The regulations applicable to ATM Network Service provided under an OPP arrangement are specified under 15.1.6.

(B) Rate Elements

(1) ATM UNI Port and Access Line

A nonrecurring charge and a monthly rate, based on the speed of the port connection (i.e., DS1, DS3, OC3c, or OC12c) apply per port for each ATM access line connection to the network supporting ATM Service. Each port can accommodate multiple Permanent Virtual Circuits (PVCs).

(2) ATM UNI Port

A nonrecurring charge and a monthly rate, based on the speed of the port connection (DS1, DS3, OC3c or OC12c) apply per port. Each port can accommodate multiple Permanent Virtual Circuits (PVCs).

Special access rates to the nearest Company ATM switch are in addition to the ATM UNI Port charges and are available from Section 7 of this Tariff. DS3, OC3c, and OC12c special access rate elements shall be provided on an Individual Case Basis (ICB).

(3) Sustained Cell Rate-Permanent Virtual Circuit (SCR-PVC)

A monthly rate applies for each PVC based on the SCR and traffic management parameter requested by Customer. SCR cannot exceed the port size.

(4) Sustained Cell Rate - Additional

Sustained Cell Rate - Additional provides for Customer to order additional SCR above the 50 Mbps available in this tariff. A monthly recurring charge applies for each 5 Mbps of Sustained Cell Rate - Additional ordered based on the traffic management parameter selected. This charge is in addition to the Sustained Cell Rate.

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(M) Material previously appeared in Section 15.1 Page 7.

(M¹) Material previously appeared in Section 15.1 Page 8.

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115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.5 Rate Regulations (Continued)

(B) Rate Elements (Continued)

(5) Peak Cell Rate (PCR)

(M)

Peak Cell Rate is the maximum data rate Customer may send data into the ATM network on a Permanent Virtual Circuit (PVC). The Peak Cell Rate on a PVC is defined as the Sustained Cell Rate plus the incremental Peak Cell Rate. Incremental Peak Cell Rate is available in 1 Mbps increments and is in addition to the Sustained Cell Rate.

(6) Frame Relay to ATM Service Interworking

A monthly recurring charge applies, based on SCR ordered, for a Frame Relay to ATM Service Interworking PVC. Service includes SCR-PVC rates and equivalent Frame Relay CIR-PVC rates and provides for bandwidth transmission through the network. The minimum period for a Frame Relay Service to ATM Service Interworking PVC is one month.

(M)

115.4.6 Optional Payment Plan (OPP)

(M¹)

(A) General

The terms and conditions specified herein are applicable to ATM Service and are in addition to other regulations as specified in this Tariff.

The ATM UNI Port with Access Line and ATM UNI Port Only rate elements are available under an OPP. Nonrecurring charges apply for initial OPP orders. NRCs will not be applied for changes in OPP lengths of Ports or Port and Access Lines. Digital special access lines and additional features are available at their Tariffed rates and regulations.

Three-year and five-year OPP rates will be equal to or less than the one-year OPP rates. Decreases to the one-year OPP rates will flow through to the three-year and five-year OPP rates.

Payment periods of one-year, three-years, and five-years are available to all Customers at the applicable rates set forth in Section 15 regardless of when they subscribe to an OPP arrangement.

Customer must designate the payment period for the OPP.

Inside moves as specified in Section 7.6.4(A) will not incur termination liability charges.

Outside moves as specified in Section 7.6.4(B) will allow Customer to retain the same OPP payment period. Any other move will be treated as a disconnect of the service and termination liability charges will apply.

(M¹)

(M) Material previously appeared in Section 15.1, Page 9.

(N)

(M¹) Material previously appeared in Section 15.1, Page 10.

(N)

115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.6 Optional Payment Plan (OPP) (Continued)

(B) Changes in Length of OPP Period

Prior to the completion of the selected OPP period, Customer may elect to convert to a new OPP period of the same or different length, subject to the following conditions: (M)

- (1) No credit toward the new payment period will be given for payments made under the original OPP arrangement.
- (2) Nonrecurring charges will not be reapplied for existing service(s).
- (3) If the new OPP period is shorter in length than the time remaining under the existing OPP, the change to the new OPP period constitutes a discontinuance of the existing OPP service and termination liability charges apply.

(C) Renewal Options

At the expiration of an OPP period, Company will automatically renew the service at the same OPP period unless Customer chooses to convert to a different OPP period or discontinue service.

Conversion to a different OPP period will require Customer to submit a change order. Conversion of existing OPP service to a different OPP period will be allowed without application of any nonrecurring or ordering charges. (M)

(D) Notification of Discontinuance (M¹)

A request for discontinuance of an OPP arrangement must be received by Company at least 30 days prior to actual disconnect of service. Recurring charges will apply for a period of 30 days from the date Company receives disconnect notification or until the requested disconnect date, whichever period is longer.

(E) Upgrade to Higher Speed Service

Customers may elect to upgrade service(s) to a higher speed during an OPP period, subject to the following conditions:

The order to discontinue a service at an existing speed or capacity and the order for the upgraded service are received by Company at the same time.

The fixed period plan for the upgraded service(s) meets or exceeds the remaining length of the existing fixed-period plan.

The total monthly rate of the new agreement is equal to or greater than the total monthly rate of the existing agreement period.

The monthly rates for the upgraded service and/or service elements will be those in effect at the time of the service upgrade. (M¹)

(M) Material previously appeared in Section 15.1, Page 11.

(M¹) Material previously appeared in Section 15.1, Page 12.

(N)

(N)

115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.6 Optional Payment Plan (OPP) (Continued)

(E) Upgrade to Higher Speed Service (Continued)

Termination Liability charges will not apply as long as the upgraded service remains connected at the same point of termination(s) and is provided by Company. (M)

Nonrecurring Charges will not apply to the upgraded Port or Port and Access Line. Special construction charges, if appropriate, may apply.

(F) Termination Liability¹

When an OPP arrangement is discontinued prior to the end of the period, termination liability charges, as set forth below, will apply based on the remainder of the OPP period in effect at the time of disconnect.

Charges will also be applicable if the number of services falls below the minimal amount of ATM services (port only or port and access) defined at the start of the contract. Charges are set forth below with the penalty assessed for each service that falls below the minimum number multiplied by the number of months required to attain the minimum contract commitment. (M)

One-Year OPP - 50% of any remaining portion of the first year's recurring charges for the in-service quantity. (M¹)

Three-Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second and third years, Customer will be liable for 10% of the total monthly recurring charges in that time period for the in-service quantity.

Five-Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second through fifth years, Customer will be liable for 20% of the total monthly recurring charges in that time period for the in-service quantity.

(G) Termination Without Liability

During an OPP period, should the currently effective rate for Customer's service increase, Customer may, at his/her option, terminate the OPP arrangement without penalty or liability.

(H) Credit of Termination Liability

Credit of termination liability charges for ATM services may be applicable in the case of re-establishment of similar ATM service of equal to or higher speeds within six months of termination for the same length of the OPP. The amount of credit will be one-sixth of the penalty times the number of month's service is re-established until the sixth month. (M¹)

¹ As described on Page 39, Termination Liability will not apply if a customer with an existing Optional Payment Plan (OPP) discontinues service to subscribe to Asynchronous Transfer Mode Cell Relay Service on an Extended Service Plan of equal or greater value than the remaining OPP. (N)

(M) Material previously appeared in Section 15.1, Page 13.

(M¹) Material previously appeared in Section 15.1, Page 14. (N)

115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.7 Rates

(A) UNI Port and Access Line

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
DS-1		
(One Year)	\$ 650.00	\$ 650.00
(Three Years)	650.00	525.00
(Five Years)	650.00	500.00
DS-3		
(One Year)	1,500.00	1,950.00
(Three Years)	1,500.00	1,750.00
(Five Years)	1,500.00	1,700.00
OC-3c		
(One Year)	1,500.00	2,100.00
(Three Years)	1,500.00	1,950.00
(Five Years)	1,500.00	1,800.00
OC-12c		
(One Year)	3,000.00	4,800.00
(Three Years)	3,000.00	4,600.00
(Five Years)	3,000.00	4,350.00

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(M)

(M) Material previously appeared in Section 15.1, Page 15.

(N)

115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.7 Rates (Continued)

(B) UNI Port Only ¹

(M)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
DS-1		
(One Year)	\$ 650.00	\$ 180.00
(Three Years)	650.00	175.00
(Five Years)	650.00	170.00
DS-3		
(One Year)	1,500.00	400.00
(Three Years)	1,500.00	370.00
(Five Years)	1,500.00	350.00
OC-3c		
(One Year)	1,500.00	680.00
(Three Years)	1,500.00	650.00
(Five Years)	1,500.00	630.00
OC-12c		
(One Year)	2,000.00	1,500.00
(Three Years)	2,000.00	1,430.00
(Five Years)	2,000.00	1,380.00

Note 1: The associated regulations, rates and charges from Section 7 are in addition to the rates associated with these ATM rate elements. Local channel, interoffice channel mileage and hub termination rates for DS3, OC3c and OC12c access channels and/or interoffice channel shall be provided on an Individual Case Basis (ICB).

(M)

(M) Material previously appeared in Section 15.1, Page 16.

(N)

115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.7 Rates (Continued)

(C) Sustained Cell Rate - Permanent Virtual Circuit (SCR-PVC)

	<u>CBR</u>	<u>Monthly Rate</u> <u>VBR-rt</u>	<u>VBR-nrt</u>
0-32 Kbps	\$ 12.00	\$ 10.00	\$ 8.00
33-64 Kbps	22.50	18.75	15.00
65-96 Kbps	33.00	27.50	22.00
97-128 Kbps	43.50	36.25	29.00
129-192 Kbps	54.00	45.00	36.00
193-256 Kbps	63.00	52.50	42.00
257-320 Kbps	72.00	60.00	48.00
321-384 Kbps	81.00	67.50	54.00
385-512 Kbps	90.00	75.00	60.00
513-768 Kbps	97.50	81.50	65.00
769-1152 Kbps	105.00	87.50	70.00
1.153-1.536 Mbps	112.50	93.75	75.00
1.537-4 Mbps	180.00	150.00	120.00
4-6 Mbps	270.00	225.00	180.00
6-8 Mbps	360.00	300.00	240.00
8-10 Mbps	450.00	375.00	300.00
10-15 Mbps	495.00	412.50	330.00
15-20 Mbps	615.00	512.50	410.00
20-25 Mbps	735.00	612.50	490.00
25-30 Mbps	855.00	712.50	570.00
30-35 Mbps	975.00	812.50	650.00
35-40 Mbps	1,095.00	912.50	730.00
40-45 Mbps	1,200.00	1,000.00	800.00
46-50 Mbps	1,305.00	1,087.50	870.00

(D) Sustained Cell Rate (SCR) -Additional

	<u>CBR</u>	<u>Monthly Rate</u> <u>VBR-rt</u>	<u>VBR-nrt</u>
5 Mbps	105.00	87.50	70.00

(M)

(M)

(M) Material previously appeared in Section 15.1, Page 17.

(N)

115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.7 Rates (Continued)

(E) Peak Cell Rate (PCR)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
1 Mbps, each	\$ 0.00	\$ 5.00

(F) Frame Relay to ATM Service Interworking

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
0-32 Kbps	\$ 0.00	\$ 14.00
33-64 Kbps	0.00	26.25
65-96 Kbps	0.00	38.50
97-128 Kbps	0.00	50.75
129-192 Kbps	0.00	63.00
193-256 Kbps	0.00	73.50
257-320 Kbps	0.00	84.00
321-384 Kbps	0.00	94.50
385-512 Kbps	0.00	105.00
513-768 Kbps	0.00	113.75
769-1152 Kbps	0.00	122.50
1.153-1.536 Mbps	0.00	131.25
1.537-4 Mbps	0.00	210.00
4-6 Mbps	0.00	315.00
6-8 Mbps	0.00	420.00
8-10 Mbps	0.00	525.00
10-15 Mbps	0.00	577.50
15-20 Mbps	0.00	717.50
20-25 Mbps	0.00	857.50
25-30 Mbps	0.00	997.50
30-35 Mbps	0.00	1,137.50
35-40 Mbps	0.00	1,277.50
40-45 Mbps	0.00	1,400.00

(M)

(M)

(M) Material previously appeared in Section 15.1, Page 18.

(N)

15. ADVANCED DATA SERVICES
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(M)

(M)

(M) Material moved to Discontinued Services Section 115, Contents Page 1.

(N)

ALAN F. CIAMPORCERO, PRESIDENT
TAMPA, FLORIDA

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15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM)(Reserved for Future Use)

(N)

15.1.1 Service Description

Asynchronous Transfer Mode (ATM) Service is a form of "fast packet" switching service for high speed networks which require flexible bandwidth, high-performance transport and switching for connectivity between and among widely distributed Customer locations. ATM is a cell-based, connection-oriented, switching and multiplexing technology designed to be a fast, general-purpose transfer mode for multiple services.

(M)

ATM Network Service conforms to protocol standards created by the ITU-T (Telecommunication Standardization Bureau of the International Telecommunication Union), formerly Consultative Committee for International Telegraph and Telephone (CCITT) and American National Standards Institute (ANSI), publications T1.511, T1.627 and T1.630.

ATM is a high-bandwidth medium with low delay and has the capability to be switched to a specific destination.

ATM Service is available where facilities and conditions permit.

15.1.2 Service Provisioning

ATM is a data networking technology that uses 53 byte cells, consisting of a 5 byte header which contains addressing, payload type and network priority information and a 48 byte payload for data. The cells are transmitted through an ATM network in a "real time" (low delay in transmission) or "non-real time" sensitive manner on virtual channels.

ATM Service can be provisioned over DS1, DS3, OC3c, and OC12c access channels.

(M)

(M) Material moved to Section 115, Page 39.

(N)

JOHN P. BLANCHARD, PRESIDENT
TAMPA, FLORIDA

EFFECTIVE: December 1, 2001
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15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

(Reserved for Future Use)

(N)

~~15.1.2 Service Provisioning (Continued)~~

(M)

~~(A) UNI Port and Access Line~~

~~Customers can subscribe to ATM Service based on the speed of the port connection (i.e., DS1, DS3, OC3c or OC12c facilities) applicable for each physical connection to the network switch supporting ATM service. A port is the entry point on the switch to which Customer is connected. Ports are available which allow connection to the ATM network at speeds of DS1 to OC12c. Each port can accommodate multiple PVCs. UNI Port and Access Lines are available on a one-, three- or five-year Optional Payment Plan (OPP).~~

~~(B) UNI Port Only~~

~~Customers can order port only access based on the speed of port connection (i.e., DS1, DS3, OC3c or OC12c facilities) applicable for each access line or digital private line connection to the network switch supporting ATM Service. Each port can accommodate multiple PVCs. UNI Port Only is available on a one-, three- or five-year Optional Payment Plan (OPP).~~

~~The associated regulations, rates and charges from Section 7 are in addition to the rates and charges associated with the ATM rate elements. Local channel, interoffice channel mileage and hub termination rates for DS3, OC3, and OC12c access channels and/or interoffice channels shall be provisioned on an Individual Case Basis (ICB).~~

(M)

(Material moved to Section 115, Page 39.

(N)

15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)
(Reserved for Future Use)

(N)

~~15.1.2 Service Provisioning (Continued)~~

(M)

~~Permanent Virtual Circuits (PVCs) are logical circuits that define a specific path for data sent by Customer to another location. These circuits are virtual because they are established in software tables and do not tie up capacity when not in use. This also allows multiple paths (PVCs) to be defined on any given port, thereby providing a single access line the capability to transmit data to multiple destinations.~~

~~Permanent Virtual Path (PVP) provides for aggregation of multiple PVCs into a single path. The traffic management parameters for all PVCs in the PVP must be defined at the same level of service. All PVCs in the PVP must have the same originating and terminating end ports. The applicable SCR and PCR rates apply for the aggregate SCR and PCR of all the PVCs in the PVP.~~

~~Customers can subscribe to pricing scheme(s), which charge for Sustained Cell Rate (SCR). SCR is an amount of bandwidth that Company commits to providing in the network for Customer traffic. SCR is set for every PVC defined.~~

~~Company ATM switches are responsible for guaranteeing the traffic priority parameter ordered by Customer. Traffic prioritization parameters refer to priorities given to cell transmissions and sensitivity of cells to delay variation and loss within the network. Constant Bit Rate (CBR) traffic is given first priority, Variable Bit Rate Real Time (VBR rt) traffic is given second priority and Variable Bit Rate Non Real Time (VBR nrt) traffic is given third priority, based upon the traffic in the network at any given point in time.~~

(M)

(M) Material moved to Section 115, Page 40.

(N)

15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

(Reserved for Future Use)

(N)

15.1.2 Service Provisioning (Continued)

(M)

There are three traffic prioritization parameter categories:

- (1) Constant Bit Rate (CBR): An ATM traffic management parameter that supports the transmission of a continuous bit stream of traffic from those applications such as video, voice, and circuit emulation, which require rigorous timing control and performance parameters.
- (2) Variable Bit Rate-Real Time (VBR-rt): An ATM traffic management parameter that allows for applications where a PVC requires low cell delay variation. For example, VBR-rt would be utilized for applications such as variable bit rate video compression, and packet voice and video, which are somewhat tolerant of delay.
- (3) Variable Bit Rate-Non Real Time (VBR-nrt): An ATM traffic management parameter that allows for applications where a PVC can tolerate larger cell delay variation than VBR-rt. For example VBR-nrt would be utilized for applications such as data file transfers.

In ATM transmission, Peak Cell Rate (PCR) is the highest available rate of information that can be transferred on a Variable Bit Rate connection, and the continuous cell rate allowed for Constant Bit Rate. Cells exceeding the Sustained Cell Rate and below the Peak Cell Rate will be limited to a maximum burst size. Customers may purchase PCR in 1 Mbps increments.

(M)

(M) Material moved to Section 115, Page 40.

(N)

15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

(Reserved for Future Use)

(N)

~~15.1.2 Service Provisioning (Continued)~~

(M)

~~Frame Relay to ATM Service Interworking:~~

~~An end user may send data from a premise location with a Frame Relay User to Network Interface (UNI) or a Network to Network Interface (NNI) to another premise with an Asynchronous Transfer Mode (ATM) Service UNI. Frame Relay to ATM Service Interworking provides for the conversion of Frame Relay packets to ATM cells and the conversion of ATM Cells to Frame Relay packets. Frame Relay Service(s) and ATM Service(s) must be established in order to provision a Frame Relay to ATM Service Interworking PVC. This conversion occurs between bandwidth equivalent CIR (Committed Information Rates) and SCR (Sustained Cell Rates). Cell conversion occurs at VBR-nrt.~~

~~15.1.3 Obligations of Company~~

~~Company is responsible for service up to and including the network interface device.~~

~~Company shall provision service over facilities suitable for ATM transmission, where available, for the effective maximum data rates of a DS1 (1.536 Mbps per second), DS3 (44.2 Mbps per second), OC3c (155 Mbps per second, concatenated) or OC12c (622.08 Mbps per second, concatenated).~~

~~Occasionally, in order to perform software updates and other maintenance, it may be necessary to take the ATM switch out of service, during the predetermined maintenance window of 12:01 a.m. to 6:00 a.m. In these cases, all attempts will be made to notify Customer in advance as to the time and duration of these outages. Company reserves the right to temporarily interrupt ATM Service at other times in emergency situations.~~

(M)

Material moved to Section 115, Page 41.

(N)

JOHN P. BLANCHARD, PRESIDENT
 TAMPA, FLORIDA

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15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

(Reserved for Future Use)

(N)

15.1.4 Obligations of Customer

(M)

~~Customer must provide compatible equipment in accordance with interface specifications defined in ANSI Standards for ATM services.~~

~~Customer is responsible for the installation, operation and maintenance of any Customer provided equipment (CPE).~~

~~Customer must specify the speed for each ATM port ordered. Customer must specify the SCR, PCR, and traffic management parameters at the time of the order for each PVC.~~

~~Customer shall be responsible for obtaining permission for Company's agents or employees to enter Customer's designated location(s) at any reasonable hour for the purpose of installing, inspecting, repairing, or, upon termination of the service, removing the service components of Company.~~

~~Customer must provide to Company a point of contact with information to include the contact name, telephone number, mailing address, and electronic mail (e-mail) address for notification purposes.~~

(M)

(M) Material moved to Section 115, Page 41.

(N)

15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

(Reserved for Future Use)

(N)

15.1.5 Rate Regulations

(M)

(A) Minimum Period

The minimum period for ATM Network Service is one year, except when provided under an Optional Payment Plan (OPP) arrangement. The regulations applicable to ATM Network Service provided under an OPP arrangement are specified under 15.1.6.

(B) Rate Elements

(1) ATM UNI Port and Access Line

A nonrecurring charge and a monthly rate, based on the speed of the port connection (i.e., DS1, DS3, OC3c, or OC12c) apply per port for each ATM access line connection to the network supporting ATM Service. Each port can accommodate multiple Permanent Virtual Circuits (PVCs).

(2) ATM UNI Port

A nonrecurring charge and a monthly rate, based on the speed of the port connection (DS1, DS3, OC3c or OC12c) apply per port. Each port can accommodate multiple Permanent Virtual Circuits (PVCs).

Special access rates to the nearest Company ATM switch are in addition to the ATM UNI Port charges and are available from Section 7 of this Tariff. DS3, OC3c, and OC12c special access rate elements shall be provided on an Individual Case Basis (ICB).

(M)

(M) Material moved to Section 115, Page 42.

(N)

15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

~~_____ (Reserved for Future Use) (N)~~

~~15.1.5 Rate Regulations (Continued) (M)~~

~~_____ (B) Rate Elements (Continued)~~

~~_____ (3) Sustained Cell Rate-Permanent Virtual Circuit (SCR-PVC)~~

~~_____ A monthly rate applies for each PVC based on the SCR and traffic management parameter requested by Customer. SCR cannot exceed the port size.~~

~~_____ (4) Sustained Cell Rate - Additional~~

~~_____ Sustained Cell Rate - Additional provides for Customer to order additional SCR above the 50 Mbps available in this tariff. A monthly recurring charge applies for each 5 Mbps of Sustained Cell Rate - Additional ordered based on the traffic management parameter selected. This charge is in addition to the Sustained Cell Rate. (M)~~

~~(M) Material moved to Section 115, Page 42. (N)~~

15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

~~_____ (Reserved for Future Use) (N)~~

~~15.1.5 Rate Regulations (Continued) (M)~~

~~_____ (B) Rate Elements (Continued)~~

~~_____ (5) Peak Cell Rate (PCR)~~

~~_____ Peak Cell Rate is the maximum data rate Customer may send data into the ATM network on a Permanent Virtual Circuit (PVC). The Peak Cell Rate on a PVC is defined as the Sustained Cell Rate plus the incremental Peak Cell Rate. Incremental Peak Cell Rate is available in 1 Mbps increments and is in addition to the Sustained Cell Rate.~~

~~_____ (6) Frame Relay to ATM Service Interworking~~

~~_____ A monthly recurring charge applies, based on SCR ordered, for a Frame Relay to ATM Service Interworking PVC. Service includes SCR-PVC rates and equivalent Frame Relay CIR-PVC rates and provides for bandwidth transmission through the network. The minimum period for a Frame Relay Service to ATM Service Interworking PVC is one month. (M)~~

~~(M) Material moved to Section 115, Page 43. (N)~~

15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

(Reserved for Future Use)

(N)

15.1.6 Optional Payment Plan (OPP)

(M)

(A) General

~~The terms and conditions specified herein are applicable to ATM Service and are in addition to other regulations as specified in this Tariff.~~

~~The ATM UNI Port with Access Line and ATM UNI Port Only rate elements are available under an OPP. Nonrecurring charges apply for initial OPP orders. NRCs will not be applied for changes in OPP lengths of Ports or Port and Access Lines. Digital special access lines and additional features are available at their Tariffed rates and regulations.~~

~~Three-year and five-year OPP rates will be equal to or less than the one-year OPP rates. Decreases to the one-year OPP rates will flow through to the three-year and five-year OPP rates.~~

~~Payment periods of one-year, three-years, and five-years are available to all Customers at the applicable rates set forth in Section 15 regardless of when they subscribe to an OPP arrangement.~~

~~Customer must designate the payment period for the OPP.~~

~~Inside moves as specified in Section 7.6.4(A) will not incur termination liability charges.~~

~~Outside moves as specified in Section 7.6.4(B) will allow Customer to retain the same OPP payment period. Any other move will be treated as a disconnect of the service and termination liability charges will apply.~~

(M)

(M) Material moved to Section 115, Page 43.

(N)

15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)(Reserved for Future Use)

(N)

15.1.6 Optional Payment Plan (OPP) (Continued)

(M)

(B) Changes in Length of OPP Period

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

- (1) No credit toward the new payment period will be given for payments made under the original OPP arrangement.
- (2) Nonrecurring charges will not be reapplied for existing service(s).
- (3) If the new OPP period is shorter in length than the time remaining under the existing OPP, the change to the new OPP period constitutes a discontinuance of the existing OPP service and termination liability charges apply.

(C) Renewal Options

At the expiration of an OPP period, Company will automatically renew the service at the same OPP period unless Customer chooses to convert to a different OPP period or discontinue service.

Conversion to a different OPP period will require Customer to submit a change order. Conversion of existing OPP service to a different OPP period will be allowed without application of any nonrecurring or ordering charges.

(M)

(M) Material moved to Section 115, Page 44.

(N)

15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

(Reserved for Future Use)

(N)

~~15.1.6 Optional Payment Plan (OPP) (Continued)~~

(M)

~~(D) Notification of Discontinuance~~

~~A request for discontinuance of an OPP arrangement must be received by Company at least 30 days prior to actual disconnect of service. Recurring charges will apply for a period of 30 days from the date Company receives disconnect notification or until the requested disconnect date, whichever period is longer.~~

~~(E) Upgrade to Higher Speed Service~~

~~Customers may elect to upgrade service(s) to a higher speed during an OPP period, subject to the following conditions:~~

~~The order to discontinue a service at an existing speed or capacity and the order for the upgraded service are received by Company at the same time.~~

~~The fixed period plan for the upgraded service(s) meets or exceeds the remaining length of the existing fixed-period plan.~~

~~The total monthly rate of the new agreement is equal to or greater than the total monthly rate of the existing agreement period.~~

~~The monthly rates for the upgraded service and/or service elements will be those in effect at the time of the service upgrade~~

(M)

(M) Material moved to Section 115, Page 44.

(N)

15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

(Reserved for Future Use)

(N)

~~15.1.6 Optional Payment Plan (OPP) (Continued)~~

(M)

~~(E) Upgrade to Higher Speed Service (Continued)~~

~~Termination Liability charges will not apply as long as the upgraded service remains connected at the same point of termination(s) and is provided by Company.~~

~~Nonrecurring Charges will not apply to the upgraded Port or Port and Access Line. Special construction charges, if appropriate, may apply.~~

~~(F) Termination Liability~~

~~When an OPP arrangement is discontinued prior to the end of the period, termination liability charges, as set forth below, will apply based on the remainder of the OPP period in effect at the time of disconnect.~~

~~Charges will also be applicable if the number of services falls below the minimal amount of ATM services (port only or port and access) defined at the start of the contract. Charges are set forth below with the penalty assessed for each service that falls below the minimum number multiplied by the number of months required to attain the minimum contract commitment.~~

(M)

(M) Moved to Section 115, Page 45.

(N)

15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

(Reserved for Future Use)

(N)

15.1.6 Optional Payment Plan (OPP) (Continued)

(M)

(F) Termination Liability (Continued)

~~One-Year OPP - 50% of any remaining portion of the first year's recurring charges for the in-service quantity.~~

~~Three-Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second and third years, Customer will be liable for 10% of the total monthly recurring charges in that time period for the in-service quantity.~~

~~Five-Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second through fifth years, Customer will be liable for 20% of the total monthly recurring charges in that time period for the in-service quantity.~~

(G) Termination Without Liability

~~During an OPP period, should the currently effective rate for Customer's service increase, Customer may, at his/her option, terminate the OPP arrangement without penalty or liability.~~

(H) Credit of Termination Liability

~~Credit of termination liability charges for ATM services may be applicable in the case of re-establishment of similar ATM service of equal to or higher speeds within six months of termination for the same length of the OPP. The amount of credit will be one-sixth of the penalty times the number of month's service is re-established until the sixth month.~~

(M)

(M) Material moved to Section 115, Page 45.

(N)

15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

(Reserved for Future Use)

(N)

15.1.7 Rates

(M)

(A) UNI Port and Access Line

	<u>Nonrecurring</u> <u>Charge</u>	<u>Monthly</u> <u>Rate</u>
<u>DS-1</u>		
(One Year)	\$ 650.00	\$ 650.00
(Three Years)	650.00	525.00
(Five Years)	650.00	500.00
<u>DS-3</u>		
(One Year)	1,500.00	1,950.00
(Three Years)	1,500.00	1,750.00
(Five Years)	1,500.00	1,700.00
<u>OC-3c</u>		
(One Year)	1,500.00	2,100.00
(Three Years)	1,500.00	1,950.00
(Five Years)	1,500.00	1,800.00
<u>OC-12c</u>		
(One Year)	3,000.00	4,800.00
(Three Years)	3,000.00	4,600.00
(Five Years)	3,000.00	4,350.00

(M)

(M) Material moved to Section 115, Page 46.

(N)

JOHN P. BLANCHARD, PRESIDENT
TAMPA, FLORIDA

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15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

(Reserved for Future Use)

15.1.7 Rates (Continued)

(B) UNI Port Only¹

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
<u>DS-1</u>		
(One Year)	\$ 650.00	\$ 180.00
(Three Years)	650.00	175.00
(Five Years)	650.00	170.00
<u>DS-3</u>		
(One Year)	1,500.00	400.00
(Three Years)	1,500.00	370.00
(Five Years)	1,500.00	350.00
<u>OC-3c</u>		
(One Year)	1,500.00	680.00
(Three Years)	1,500.00	650.00
(Five Years)	1,500.00	630.00
<u>OC-12c</u>		
(One Year)	2,000.00	1,500.00
(Three Years)	2,000.00	1,430.00
(Five Years)	2,000.00	1,380.00

Note 1: The associated regulations, rates and charges from Section 7 are in addition to the rates associated with these ATM rate elements. Local channel, interoffice channel mileage and hub termination rates for DS3, OC3c and OC12c access channels and/or interoffice channel shall be provided on an Individual Case Basis (ICB).

(M) Material moved to section 115, Page 47.

JOHN P. BLANCHARD, PRESIDENT
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(N)

(M)

(M)

(N)

15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

(Reserved for Future Use)

15.1.7 Rates (Continued)

(C) Sustained Cell Rate - Permanent Virtual Circuit (SCR-PVC)

	Monthly Rate		
	CBR	VBR-rt	VBR-nrt
0-32 Kbps	\$ 12.00	\$ 10.00	\$ 8.00
33-64 Kbps	22.50	18.75	15.00
65-96 Kbps	33.00	27.50	22.00
97-128 Kbps	43.50	36.25	29.00
129-192 Kbps	54.00	45.00	36.00
193-256 Kbps	63.00	52.50	42.00
257-320 Kbps	72.00	60.00	48.00
321-384 Kbps	81.00	67.50	54.00
385-512 Kbps	90.00	75.00	60.00
513-768 Kbps	97.50	81.50	65.00
769-1152 Kbps	105.00	87.50	70.00
1.153-1.536 Mbps	112.50	93.75	75.00
1.537-4 Mbps	180.00	150.00	120.00
4-6 Mbps	270.00	225.00	180.00
6-8 Mbps	360.00	300.00	240.00
8-10 Mbps	450.00	375.00	300.00
10-15 Mbps	495.00	412.50	330.00
15-20 Mbps	615.00	512.50	410.00
20-25 Mbps	735.00	612.50	490.00
25-30 Mbps	855.00	712.50	570.00
30-35 Mbps	975.00	812.50	650.00
35-40 Mbps	1,095.00	912.50	730.00
40-45 Mbps	1,200.00	1,000.00	800.00
46-50 Mbps	1,305.00	1,087.50	870.00

(D) Sustained Cell Rate (SCR) - Additional

	Monthly Rate		
	CBR	VBR-rt	VBR-nrt
5 Mbps	105.00	87.50	70.00

(M) Material moved to Section 115, Page 48.

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15. ADVANCED DATA SERVICES

15.1 Asynchronous Transfer Mode (ATM) (Continued)

(Reserved for Future Use)

(N)

15.1.7 Rates (Continued)

(M)

(E) Peak Cell Rate (PCR)

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
1 Mbps, each	\$ 0.00	\$ 5.00

(F) Frame Relay to ATM Service Interworking

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
0-32 Kbps	\$ 0.00	\$ 14.00
33-64 Kbps	0.00	26.25
65-96 Kbps	0.00	38.50
97-128 Kbps	0.00	50.75
129-192 Kbps	0.00	63.00
193-256 Kbps	0.00	73.50
257-320 Kbps	0.00	84.00
321-384 Kbps	0.00	94.50
385-512 Kbps	0.00	105.00
513-768 Kbps	0.00	113.75
769-1152 Kbps	0.00	122.50
1.153-1.536 Mbps	0.00	131.25
1.537-4 Mbps	0.00	210.00
4-6 Mbps	0.00	315.00
6-8 Mbps	0.00	420.00
8-10 Mbps	0.00	525.00
10-15 Mbps	0.00	577.50
15-20 Mbps	0.00	717.50
20-25 Mbps	0.00	857.50
25-30 Mbps	0.00	997.50
30-35 Mbps	0.00	1,137.50
35-40 Mbps	0.00	1,277.50
40-45 Mbps	0.00	1,400.00

(M)

(M) Material moved to Section 115, Page 49.

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115. DISCONTINUED ADVANCED DATA SERVICES

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(M)	(T)
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(M) Material previously appeared in Section 15.1, Contents Page 1.

(N)

115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM)

(N)

Discontinued. Effective December 18, 2004 Asynchronous Transfer Mode (ATM) as described in Section 115.4 will be continued for existing customers only. Existing customers on an Optional Payment Plan (OPP) may continue their service until their OPP expires or their service is disconnected, whichever occurs first. Installations, moves, additions or changes will not be permitted. Termination Liability as described in this section will not apply if a customer with an existing OPP discontinues service to subscribe to Asynchronous Transfer Mode Cell Relay Service on an Extended Service Plan of equal or greater value than the remaining OPP.

(N)

115.4.1 Service Description

(M)

Asynchronous Transfer Mode (ATM) Service is a form of "fast packet" switching service for high speed networks which require flexible bandwidth, high-performance transport and switching for connectivity between and among widely distributed Customer locations. ATM is a cell-based, connection-oriented, switching and multiplexing technology designed to be a fast, general-purpose transfer mode for multiple services.

ATM Network Service conforms to protocol standards created by the ITU-T (Telecommunication Standardization Bureau of the International Telecommunication Union), formerly Consultative Committee for International Telegraph and Telephone (CCITT) and American National Standards Institute (ANSI), publications T1.511, T1.627 and T1.630.

ATM is a high-bandwidth medium with low delay and has the capability to be switched to a specific destination.

ATM Service is available where facilities and conditions permit.

115.4.2 Service Provisioning

ATM is a data networking technology that uses 53 byte cells, consisting of a 5 byte header which contains addressing, payload type and network priority information and a 48 byte payload for data. The cells are transmitted through an ATM network in a "real time" (low delay in transmission) or "non-real time" sensitive manner on virtual channels.

ATM Service can be provisioned over DS1, DS3, OC3c, and OC12c access channels.

(M)

(A) UNI Port and Access Line

(M¹)

Customers can subscribe to ATM Service based on the speed of the port connection (i.e., DS1, DS3, OC3c or OC12c facilities) applicable for each physical connection to the network switch supporting ATM service. A port is the entry point on the switch to which Customer is connected. Ports are available which allow connection to the ATM network at speeds of DS1 to OC12c. Each port can accommodate multiple PVCs. UNI Port and Access Lines are available on a one-, three- or five-year Optional Payment Plan (OPP).

(B) UNI Port Only

Customers can order port only access based on the speed of port connection (i.e., DS1, DS3, OC3c or OC12c facilities) applicable for each access line or digital private line connection to the network switch supporting ATM Service. Each port can accommodate multiple PVCs. UNI Port Only is available on a one-, three- or five-year Optional Payment Plan (OPP).

The associated regulations, rates and charges from Section 7 are in addition to the rates and charges associated with the ATM rate elements. Local channel, interoffice channel mileage and hub termination rates for DS3, OC3, and OC12c access channels and/or interoffice channels shall be provisioned on an Individual Case Basis (ICB).

(M¹)

(M) Material previously appeared in Section 15.1, Page 1.

(N)

(M¹) Material previously appeared in Section 15.1, Page 2.

(N)

115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.2 Service Provisioning (Continued)

Permanent Virtual Circuits (PVCs) are logical circuits that define a specific path for data sent by Customer to another location. These circuits are virtual because they are established in software tables and do not tie up capacity when not in use. This also allows multiple paths (PVCs) to be defined on any given port, thereby providing a single access line the capability to transmit data to multiple destinations.

Permanent Virtual Path (PVP) provides for aggregation of multiple PVCs into a single path. The traffic management parameters for all PVCs in the PVP must be defined at the same level of service. All PVCs in the PVP must have the same originating and terminating end ports. The applicable SCR and PCR rates apply for the aggregate SCR and PCR of all the PVCs in the PVP.

Customers can subscribe to pricing scheme(s), which charge for Sustained Cell Rate (SCR). SCR is an amount of bandwidth that Company commits to providing in the network for Customer traffic. SCR is set for every PVC defined.

Company ATM switches are responsible for guaranteeing the traffic priority parameter ordered by Customer. Traffic prioritization parameters refer to priorities given to cell transmissions and sensitivity of cells to delay variation and loss within the network. Constant Bit Rate (CBR) traffic is given first priority, Variable Bit Rate-Real Time (VBR-rt) traffic is given second priority and Variable Bit Rate-Non Real Time (VBR-nrt) traffic is given third priority, based upon the traffic in the network at any given point in time.

There are three traffic prioritization parameter categories:

- (1) Constant Bit Rate (CBR): An ATM traffic management parameter that supports the transmission of a continuous bit stream of traffic from those applications such as video, voice, and circuit emulation, which require rigorous timing control and performance parameters.
- (2) Variable Bit Rate-Real Time (VBR-rt): An ATM traffic management parameter that allows for applications where a PVC requires low cell delay variation. For example, VBR-rt would be utilized for applications such as variable bit rate video compression, and packet voice and video, which are somewhat tolerant of delay.
- (3) Variable Bit Rate-Non Real Time (VBR-nrt): An ATM traffic management parameter that allows for applications where a PVC can tolerate larger cell delay variation than VBR-rt. For example VBR-nrt would be utilized for applications such as data file transfers.

In ATM transmission, Peak Cell Rate (PCR) is the highest available rate of information that can be transferred on a Variable Bit Rate connection, and the continuous cell rate allowed for Constant Bit Rate. Cells exceeding the Sustained Cell Rate and below the Peak Cell Rate will be limited to a maximum burst size. Customers may purchase PCR in 1 Mbps increments.

(M) Material previously appeared in Section 15.1 Page 3.

(M¹) Material previously appeared in Section 15.1 Page 4.

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115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.2 Service Provisioning (Continued)

Frame Relay to ATM Service Interworking:

(M)

An end user may send data from a premise location with a Frame Relay User to Network Interface (UNI) or a Network to Network Interface (NNI) to another premise with an Asynchronous Transfer Mode (ATM) Service UNI. Frame Relay to ATM Service Interworking provides for the conversion of Frame Relay packets to ATM cells and the conversion of ATM Cells to Frame Relay packets. Frame Relay Service(s) and ATM Service(s) must be established in order to provision a Frame Relay to ATM Service Interworking PVC. This conversion occurs between bandwidth equivalent CIR (Committed Information Rates) and SCR (Sustained Cell Rates). Cell conversion occurs at VBR-rt.

115.4.3 Obligations of Company

Company is responsible for service up to and including the network interface device.

Company shall provision service over facilities suitable for ATM transmission, where available, for the effective maximum data rates of a DS1 (1.536 Mbps per second), DS3 (44.2 Mbps per second), OC3c (155 Mbps per second, concatenated) or OC12c (622.08 Mbps per second, concatenated).

Occasionally, in order to perform software updates and other maintenance, it may be necessary to take the ATM switch out of service, during the predetermined maintenance window of 12:01 a.m. to 6:00 a.m. In these cases, all attempts will be made to notify Customer in advance as to the time and duration of these outages. Company reserves the right to temporarily interrupt ATM Service at other times in emergency situations.

(M)

115.4.4 Obligations of Customer

(M¹)

Customer must provide compatible equipment in accordance with interface specifications defined in ANSI Standards for ATM services.

Customer is responsible for the installation, operation and maintenance of any Customer provided equipment (CPE).

Customer must specify the speed for each ATM port ordered. Customer must specify the SCR, PCR, and traffic management parameters at the time of the order for each PVC.

Customer shall be responsible for obtaining permission for Company's agents or employees to enter Customer's designated location(s) at any reasonable hour for the purpose of installing, inspecting, repairing, or, upon termination of the service, removing the service components of Company.

Customer must provide to Company a point of contact with information to include the contact name, telephone number, mailing address, and electronic mail (e-mail) address for notification purposes.

(M¹)

(M) Material previously appeared in Section 15.1 Page 5.

(N)

(M¹) Material previously appeared in Section 15.1 Page 6.

(N)

115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.5 Rate Regulations

(A) Minimum Period

The minimum period for ATM Network Service is one year, except when provided under an Optional Payment Plan (OPP) arrangement. The regulations applicable to ATM Network Service provided under an OPP arrangement are specified under 15.1.6.

(B) Rate Elements

(1) ATM UNI Port and Access Line

A nonrecurring charge and a monthly rate, based on the speed of the port connection (i.e., DS1, DS3, OC3c, or OC12c) apply per port for each ATM access line connection to the network supporting ATM Service. Each port can accommodate multiple Permanent Virtual Circuits (PVCs).

(2) ATM UNI Port

A nonrecurring charge and a monthly rate, based on the speed of the port connection (DS1, DS3, OC3c or OC12c) apply per port. Each port can accommodate multiple Permanent Virtual Circuits (PVCs).

Special access rates to the nearest Company ATM switch are in addition to the ATM UNI Port charges and are available from Section 7 of this Tariff. DS3, OC3c, and OC12c special access rate elements shall be provided on an Individual Case Basis (ICB).

(3) Sustained Cell Rate-Permanent Virtual Circuit (SCR-PVC)

A monthly rate applies for each PVC based on the SCR and traffic management parameter requested by Customer. SCR cannot exceed the port size.

(4) Sustained Cell Rate - Additional

Sustained Cell Rate - Additional provides for Customer to order additional SCR above the 50 Mbps available in this tariff. A monthly recurring charge applies for each 5 Mbps of Sustained Cell Rate - Additional ordered based on the traffic management parameter selected. This charge is in addition to the Sustained Cell Rate.

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(M) Material previously appeared in Section 15.1 Page 7.

(M¹) Material previously appeared in Section 15.1 Page 8.

(N)

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115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.5 Rate Regulations (Continued)

(B) Rate Elements (Continued)

(5) Peak Cell Rate (PCR)

(M)

Peak Cell Rate is the maximum data rate Customer may send data into the ATM network on a Permanent Virtual Circuit (PVC). The Peak Cell Rate on a PVC is defined as the Sustained Cell Rate plus the incremental Peak Cell Rate. Incremental Peak Cell Rate is available in 1 Mbps increments and is in addition to the Sustained Cell Rate.

(6) Frame Relay to ATM Service Interworking

A monthly recurring charge applies, based on SCR ordered, for a Frame Relay to ATM Service Interworking PVC. Service includes SCR-PVC rates and equivalent Frame Relay CIR-PVC rates and provides for bandwidth transmission through the network. The minimum period for a Frame Relay Service to ATM Service Interworking PVC is one month.

(M)

115.4.6 Optional Payment Plan (OPP)

(M')

(A) General

The terms and conditions specified herein are applicable to ATM Service and are in addition to other regulations as specified in this Tariff.

The ATM UNI Port with Access Line and ATM UNI Port Only rate elements are available under an OPP. Nonrecurring charges apply for initial OPP orders. NRCs will not be applied for changes in OPP lengths of Ports or Port and Access Lines. Digital special access lines and additional features are available at their Tariffed rates and regulations.

Three-year and five-year OPP rates will be equal to or less than the one-year OPP rates. Decreases to the one-year OPP rates will flow through to the three-year and five-year OPP rates.

Payment periods of one-year, three-years, and five-years are available to all Customers at the applicable rates set forth in Section 15 regardless of when they subscribe to an OPP arrangement.

Customer must designate the payment period for the OPP.

Inside moves as specified in Section 7.6.4(A) will not incur termination liability charges.

Outside moves as specified in Section 7.6.4(B) will allow Customer to retain the same OPP payment period. Any other move will be treated as a disconnect of the service and termination liability charges will apply.

(M')

(M) Material previously appeared in Section 15.1, Page 9.

(N)

(M') Material previously appeared in Section 15.1, Page 10.

(N)

115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.6 Optional Payment Plan (OPP) (Continued)

(B) Changes in Length of OPP Period

Prior to the completion of the selected OPP period, Customer may elect to convert to a new OPP period of the same or different length, subject to the following conditions: (M)

(1) No credit toward the new payment period will be given for payments made under the original OPP arrangement.

(2) Nonrecurring charges will not be reapplied for existing service(s).

(3) If the new OPP period is shorter in length than the time remaining under the existing OPP, the change to the new OPP period constitutes a discontinuance of the existing OPP service and termination liability charges apply.

(C) Renewal Options

At the expiration of an OPP period, Company will automatically renew the service at the same OPP period unless Customer chooses to convert to a different OPP period or discontinue service.

Conversion to a different OPP period will require Customer to submit a change order. Conversion of existing OPP service to a different OPP period will be allowed without application of any nonrecurring or ordering charges. (M)

(D) Notification of Discontinuance (M')

A request for discontinuance of an OPP arrangement must be received by Company at least 30 days prior to actual disconnect of service. Recurring charges will apply for a period of 30 days from the date Company receives disconnect notification or until the requested disconnect date, whichever period is longer.

(E) Upgrade to Higher Speed Service

Customers may elect to upgrade service(s) to a higher speed during an OPP period, subject to the following conditions:

The order to discontinue a service at an existing speed or capacity and the order for the upgraded service are received by Company at the same time.

The fixed period plan for the upgraded service(s) meets or exceeds the remaining length of the existing fixed-period plan.

The total monthly rate of the new agreement is equal to or greater than the total monthly rate of the existing agreement period.

The monthly rates for the upgraded service and/or service elements will be those in effect at the time of the service upgrade. (M')

(M) Material previously appeared in Section 15.1, Page 11. (N)

(M') Material previously appeared in Section 15.1, Page 12. (N)

115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.6 Optional Payment Plan (OPP) (Continued)

(E) Upgrade to Higher Speed Service (Continued)

Termination Liability charges will not apply as long as the upgraded service remains connected at the same point of termination(s) and is provided by Company. (M)

Nonrecurring Charges will not apply to the upgraded Port or Port and Access Line. Special construction charges, if appropriate, may apply.

(F) Termination Liability¹

When an OPP arrangement is discontinued prior to the end of the period, termination liability charges, as set forth below, will apply based on the remainder of the OPP period in effect at the time of disconnect.

Charges will also be applicable if the number of services falls below the minimal amount of ATM services (port only or port and access) defined at the start of the contract. Charges are set forth below with the penalty assessed for each service that falls below the minimum number multiplied by the number of months required to attain the minimum contract commitment. (M)

One-Year OPP - 50% of any remaining portion of the first year's recurring charges for the in-service quantity. (M¹)

Three-Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second and third years, Customer will be liable for 10% of the total monthly recurring charges in that time period for the in-service quantity.

Five-Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second through fifth years, Customer will be liable for 20% of the total monthly recurring charges in that time period for the in-service quantity.

(G) Termination Without Liability

During an OPP period, should the currently effective rate for Customer's service increase, Customer may, at his/her option, terminate the OPP arrangement without penalty or liability.

(H) Credit of Termination Liability

Credit of termination liability charges for ATM services may be applicable in the case of re-establishment of similar ATM service of equal to or higher speeds within six months of termination for the same length of the OPP. The amount of credit will be one-sixth of the penalty times the number of month's service is re-established until the sixth month. (M¹)

¹ As described on Page 39, Termination Liability will not apply if a customer with an existing Optional Payment Plan (OPP) discontinues service to subscribe to Asynchronous Transfer Mode Cell Relay Service on an Extended Service Plan of equal or greater value than the remaining OPP. (N)

(M) Material previously appeared in Section 15.1, Page 13.

(M¹) Material previously appeared in Section 15.1, Page 14. (N)

115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.7 Rates

(A) UNI Port and Access Line

	Nonrecurring Charge	Monthly Rate
<u>DS-1</u>		
(One Year)	\$ 650.00	\$ 650.00
(Three Years)	650.00	525.00
(Five Years)	650.00	500.00
<u>DS-3</u>		
(One Year)	1,500.00	1,950.00
(Three Years)	1,500.00	1,750.00
(Five Years)	1,500.00	1,700.00
<u>OC-3c</u>		
(One Year)	1,500.00	2,100.00
(Three Years)	1,500.00	1,950.00
(Five Years)	1,500.00	1,800.00
<u>OC-12c</u>		
(One Year)	3,000.00	4,800.00
(Three Years)	3,000.00	4,600.00
(Five Years)	3,000.00	4,350.00

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(M) Material previously appeared in Section 15.1, Page 15.

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115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.7 Rates (Continued)

(B) UNI Port Only ¹

(M)

	Nonrecurring Charge	Monthly Rate
DS-1		
(One Year)	\$ 650.00	\$ 180.00
(Three Years)	650.00	175.00
(Five Years)	650.00	170.00
DS-3		
(One Year)	1,500.00	400.00
(Three Years)	1,500.00	370.00
(Five Years)	1,500.00	350.00
OC-3c		
(One Year)	1,500.00	680.00
(Three Years)	1,500.00	650.00
(Five Years)	1,500.00	630.00
OC-12c		
(One Year)	2,000.00	1,500.00
(Three Years)	2,000.00	1,430.00
(Five Years)	2,000.00	1,380.00

Note 1: The associated regulations, rates and charges from Section 7 are in addition to the rates associated with these ATM rate elements. Local channel, interoffice channel mileage and hub termination rates for DS3, OC3c and OC12c access channels and/or interoffice channel shall be provided on an Individual Case Basis (ICB).

(M)

(M) Material previously appeared in Section 15.1, Page 16.

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115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.7 Rates (Continued)

(C) Sustained Cell Rate - Permanent Virtual Circuit (SCR-PVC)

	CBR	Monthly Rate	
		VBR-rt	VBR-nrt
0-32 Kbps	\$ 12.00	\$ 10.00	\$ 8.00
33-64 Kbps	22.50	18.75	15.00
65-96 Kbps	33.00	27.50	22.00
97-128 Kbps	43.50	36.25	29.00
129-192 Kbps	54.00	45.00	36.00
193-256 Kbps	63.00	52.50	42.00
257-320 Kbps	72.00	60.00	48.00
321-384 Kbps	81.00	67.50	54.00
385-512 Kbps	90.00	75.00	60.00
513-768 Kbps	97.50	81.50	65.00
769-1152 Kbps	105.00	87.50	70.00
1.153-1.536 Mbps	112.50	93.75	75.00
1.537-4 Mbps	180.00	150.00	120.00
4-6 Mbps	270.00	225.00	180.00
6-8 Mbps	360.00	300.00	240.00
8-10 Mbps	450.00	375.00	300.00
10-15 Mbps	495.00	412.50	330.00
15-20 Mbps	615.00	512.50	410.00
20-25 Mbps	735.00	612.50	490.00
25-30 Mbps	855.00	712.50	570.00
30-35 Mbps	975.00	812.50	650.00
35-40 Mbps	1,095.00	912.50	730.00
40-45 Mbps	1,200.00	1,000.00	800.00
46-50 Mbps	1,305.00	1,087.50	870.00

(D) Sustained Cell Rate (SCR) -Additional

	CBR	Monthly Rate	
		VBR-rt	VBR-nrt
5 Mbps	105.00	87.50	70.00

(M) Material previously appeared in Section 15.1, Page 17.

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(M)

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115. ADVANCED DATA SERVICES

115.4 Asynchronous Transfer Mode (ATM) (Continued)

115.4.7 Rates (Continued)

(E) Peak Cell Rate (PCR)

	Nonrecurring Charge	Monthly Rate
1 Mbps, each	\$ 0.00	\$ 5.00

(F) Frame Relay to ATM Service Interworking

	Nonrecurring Charge	Monthly Rate
0-32 Kbps	\$ 0.00	\$ 14.00
33-64 Kbps	0.00	26.25
65-96 Kbps	0.00	38.50
97-128 Kbps	0.00	50.75
129-192 Kbps	0.00	63.00
193-256 Kbps	0.00	73.50
257-320 Kbps	0.00	84.00
321-384 Kbps	0.00	94.50
385-512 Kbps	0.00	105.00
513-768 Kbps	0.00	113.75
769-1152 Kbps	0.00	122.50
1.153-1.536 Mbps	0.00	131.25
1.537-4 Mbps	0.00	210.00
4-6 Mbps	0.00	315.00
6-8 Mbps	0.00	420.00
8-10 Mbps	0.00	525.00
10-15 Mbps	0.00	577.50
15-20 Mbps	0.00	717.50
20-25 Mbps	0.00	857.50
25-30 Mbps	0.00	997.50
30-35 Mbps	0.00	1,137.50
35-40 Mbps	0.00	1,277.50
40-45 Mbps	0.00	1,400.00

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(M) Material previously appeared in Section 15.1, Page 18.

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