
ACCESS SERVICE

16. Packet Data Services

16.1 Reserved for Future Use

16.2 Reserved for Future Use

16.3 Reserved for Future Use

16.4 Reserved for Future Use

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service16.5.1 Service Description

The Telephone Company's IP (Internet Protocol) Routing Service, IPRS, provides for the collection, concentration and management of the customer's data traffic within a LATA. IPRS consists of network routers located at LATA hub sites that will collect the customer's end user data traffic and concentrate it for connection and transport over the Telephone Company's Packet Data Service to a customer's designated location.

The customer has the option of utilizing, as a feature of IPRS, Single Number Routing in lieu of local telephone numbers, which are included as part of IPRS. This option provides for all end users in a defined geographic area (i.e., a LATA) to have access to the customer via one specialized telephone number. The end user can initiate a call within the service area to the customer, and the call will be treated as a local call by the Telephone Company for the connection and duration of the call. This option is part of the standard IPRS offering and is included in the rates and charges for IPRS at no additional charge.

The following two alternatives are offered to the customer under this option:

1. The Telephone Company will assign a Single Number Routing telephone number from a 500 NPA; or
2. The customer can provide the Telephone Company with its own 555-XXXX telephone number acquired from the North American Numbering Plan Administration.

For those customers that opt for Single Number Routing, the Telephone Company will provision either a single 500 or 555 telephone number. If the customer requests additional 500 or 555 telephone numbers, special assembly charges will apply.

IPRS provides two types of ports for the collection of end user data traffic. The port type(s) is/are determined by the method(s) chosen by the customer for access to its end user(s). The two port types are:

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.1 Service Description (Cont'd)

- 1) Dial-up Port
- 2) IPRS DS1/1.544 Mbps Port*

The Dial-up Port type is intended for use with a single computer connection and not for connection to a Local Area Network (LAN).

IPRS does not include the end user access service. End user services and facilities are available from this and other public telephone network tariffs.

IPRS requires the use of RADIUS (Remote Authentication Dial-In User Service), a network security protocol, for the customer's authentication and authorization of its dial-up end user(s). See Section 16.5.2 following for technical references.

Maintenance and upgrades for IPRS are performed during the hours of 11:00 p.m. and 8:00 a.m. At times, during the hours of maintenance activity, it will be necessary to place a customer's service in an inactive or out-of-service condition. The amount of time that this scheduled out-of-service condition will exist is called a "maintenance window." The Telephone Company will provide the customer notice prior to the maintenance window and will work cooperatively with the customer to minimize service disruption. Maintenance window activity could be scheduled for consecutive days.

16.5.2 Technical Specifications

IPRS is provided in compliance with standards established by the Internet Architecture Board as stated in the following publications:

STD 0001, Internet Official Protocol Standards; J Postel, Editor, issued June 1997.

RFC 2138, Remote Authentication Dial-In User Service (RADIUS); C Rigney, A. Rubens, W. Simpson, S. Wilens., issued April 1997.

* Effective September 15, 2001, the IPRS DS1/1.544 Mbps Port will no longer be available for new service requests.

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.3 Terms and Conditions

- (A) IPRS is a hubbed service. IPRS wire centers are designated in (B) following.
- (B)

<u>LATA</u>	<u>HUB Wire Center</u>
Clarksburg	Clarksburg
Clarksburg	Morgantown
Charleston	Charleston
Charleston	Parkersburg
- (C) IPRS is available on a month-to-month basis and for commitment periods of 3 years and 5 years.
- (D) Month-to-month service is subject to a minimum service period of 12 months.
- (E) Customers electing a 3-year or 5-year term must also select a minimum port volume for the service period.
- (F) IPRS is provided on a negotiated service date interval.
- (G) IPRS is monitored and maintained 24 hours-a-day 7 days-a-week for trouble isolation and resolution.
- (H) The customer is responsible for purchasing an adequate quantity of ports to accommodate originating dial-up traffic, which is delivered to the selected IPRS hub(s) for aggregation and routing to the customer's host location. A Port Capacity Report, furnished by the Telephone Company, that indicates 100% utilization for 30 minutes or more during any one-week period will require the customer to augment their port capacity accordingly in the affected hub(s).

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.4 Rate Regulations

- A) All rate categories are billed monthly.
- B) Nonrecurring charges apply for the installation of each port as set forth in Section 16.5.6 following.

A conversion of service to a new commitment period of equal or greater length than the remainder of the existing term does not incur nonrecurring charges for the existing port.
- C) When the customer's commitment period ends, the rates associated with the quantity of ports installed under such commitment period will remain in effect.
- D) Termination liability applies when a port is disconnected prior to the end of the minimum service period or prior to the end of the selected commitment period. Liability is assessed as follows:

Month-to-Month Service: The customer is responsible for 100% of the monthly rates for the entire 12-month minimum service period.

3 and 5-Year Terms: The customer is responsible for 100% of the monthly rate for the first 12 months and 15% of the remaining monthly charges.

Termination liability is waived if a port is converted to another term of equal or greater value in revenue than the remainder of the present term.

Termination liability is waived when a customer replaces one port for another type and commits to a term of equal or greater value in revenue than the remainder of the current commitment. The replacement is subject to applicable nonrecurring charges.

If the customer's recurring rate increases, the customer may discontinue service without liability.

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.4 Rate Regulations (Cont'd)

- (E) Customers with a 3-year or 5-year term commitment must order service with a volume commitment, enabling the customer to receive the discount applicable to the appropriate volume tier for the committed volume for all ports subscribed. Customers with this option and a 3-year term will have 12 months after the initial port installation to reach the committed port volume. Customers with a 5-year term who select this option will have 24 months after the initial port installation to reach the committed volume.

Six months after the end of the appropriate 12 or 24 month installation window, a review of the customer's account will be performed to verify that the committed volume level has been achieved. Rates will be adjusted accordingly based upon the number of ports in service.

Failure to achieve the guaranteed quantity of ports within the specified time frame will result in all ports being rerated to the applicable monthly rate for the quantity actually in service. In addition, a liability charge equal to the monthly rate per port at the guaranteed commitment level multiplied by the port shortfall (the difference between the committed volume and the actual number of ports in service) multiplied by 3 months will apply.

In the event the customer has exceeded the commitment level, and the number of ports in service qualifies for a lower monthly rate based upon the volume tier for that number of ports, all ports will be rerated to the new, lower monthly rate.

Customer account reviews will be performed semi-annually after the first review until the end of the commitment period.

- (F) Customers with a 3-year or 5-year term commitment may add additional ports at any time during the commitment period at the rates applicable for the term commitment and the volume commitment initially selected. All ports will therefore be subject to a common expiration date for service commitment.
- (G) IPRS ports must be purchased in increments of 23 ports, except where available as single port quantities.
- (H) Upon receipt of a bona fide request from a customer for a port quantity in excess of 75,500 Ports, the Telephone Company will work cooperatively with the customer to develop a per port rate for the requested quantity. Once the per-port rate is developed and accepted by the customer, it will then be tariffed and made available to any other customers requesting that same port quantity.

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.4 Rate Regulations (Cont'd)(I) IPRS Reports

- (1) IPRS includes a text-based, preformatted Daily Capacity Report that includes all network elements and all items from the previous day. This report is provided to each IPRS customer each day via e-mail without charge.
- (2) Customers desiring additional reports may choose optional Customer Service Management (CSM) Reports. The Telephone Company will provide IPRS customers with traffic reports and the ability to access this traffic data in near real-time via web-based access. The following reports will be available to the IPRS customer:
 - (a) Total Connections, Analog and Digital
 - (b) Analog and Digital Ratio
 - (c) Calls Increment (Measuring total calls received in ten minute intervals)
 - (d) ISDN Connections
 - (e) Modem Connections (Measuring analog call connections)
 - (f) Seconds Increment (Measuring total duration in seconds for a specific period of time)
 - (g) Weekly Maximum for Total Connections, Analog and Digital
- (3) Customers opting for the CSM Reports will have the ability to display varying time periods for archived data, in varying intervals (i.e., several days, weeks, or months up to 12 months prior). CSM customers will also have the ability to view the output data graphically. Appropriate output may also be displayed illustrating Raw Data, Peaks, or Averages. Polling across the IPRS network for the CSM reports occurs in 10-minute intervals on average. Output data is not available for the most recent 24 hours prior to the query.
- (4) Recurring and Nonrecurring charges are based on a per-user access limited to six (6) IP addresses. The price entitles the customer to access the entire menu of available reports. Charges are assessed based on the size of the IPRS network (200 IPRS ports or less, or greater than 200 IPRS ports). If additional user access is needed, customers will be required to pay an additional appropriate monthly rate for each additional user access requested.

180 S. Clinton Ave., Rochester, NY 14646

ACCESS SERVICE

16. Packet Data Services (Cont'd)

16.5 IP (Internet Protocol) Routing Service (Cont'd)

16.5.5 Rate Categories

- A) Dial-up Port: Provides one data path connection in a local calling area of the company designated by the customer for analog/ISDN dial-up access to the customer by the customer's end users, and the IP routing of the end user data to the customer.
- B) IPRS DS1/1.544 Mbps Port*: Provides connection and IP routing of end user data terminated over dedicated private line facilities at a speed of 1.544 Mbps.

* Effective September 15, 2001, these ports will no longer be available for new service requests

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.6 Rates and Charges
- per port

A) Dial-up Port

<u>Port Category</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>
<u>Month-to-Month</u>		
Up to 75,500 Ports		
N-MSA	\$56.00	\$35.00
Price Band 4	56.00	35.00
Price Band 5	56.00	35.00
Price Band 6	56.00	35.00
Over 75,500 Ports	See 16.5.4(H) preceding	
<u>3-year Term</u>		
Up to 9,660 Ports		
N-MSA	39.00	0.00
Price Band 4	39.00	0.00
Price Band 5	39.00	0.00
Price Band 6	39.00	0.00
Up to 16,100 Ports		
N-MSA	38.00	0.00
Price Band 4	38.00	0.00
Price Band 5	38.00	0.00
Price Band 6	38.00	0.00
Up to 32,200 Ports		
N-MSA	37.00	0.00
Price Band 4	37.00	0.00
Price Band 5	37.00	0.00
Price Band 6	37.00	0.00
Up to 48,300 Ports		
N-MSA	36.00	0.00
Price Band 4	36.00	0.00
Price Band 5	36.00	0.00
Price Band 6	36.00	0.00
Up to 64,400 Ports		
N-MSA	34.00	0.00
Price Band 4	34.00	0.00
Price Band 5	34.00	0.00
Price Band 6	34.00	0.00
Up to 75,500 Ports		
N-MSA	32.00	0.00
Price Band 4	32.00	0.00
Price Band 5	32.00	0.00
Price Band 6	32.00	0.00
Over 75,500 Ports	See 16.5.4(H) preceding	

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.6 Rates and Charges (Cont'd)
- per port

A) Dial-up Port (Cont'd)

<u>Port Category</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>
<u>5-Year Term</u>		
Up to 9,660 Ports		
N-MSA	\$36.00	\$0.00
Price Band 4	36.00	0.00
Price Band 5	36.00	0.00
Price Band 6	36.00	0.00
Up to 16,100 Ports		
N-MSA	35.00	0.00
Price Band 4	35.00	0.00
Price Band 5	35.00	0.00
Price Band 6	35.00	0.00
Up to 32,200 Ports		
N-MSA	34.00	0.00
Price Band 4	34.00	0.00
Price Band 5	34.00	0.00
Price Band 6	34.00	0.00
Up to 48,300 Ports		
N-MSA	33.00	0.00
Price Band 4	33.00	0.00
Price Band 5	33.00	0.00
Price Band 6	33.00	0.00
Up to 64,400 Ports		
N-MSA	31.00	0.00
Price Band 4	31.00	0.00
Price Band 5	31.00	0.00
Price Band 6	31.00	0.00
Up to 75,500 Ports		
N-MSA	29.00	0.00
Price Band 4	29.00	0.00
Price Band 5	29.00	0.00
Price Band 6	29.00	0.00
Over 75,500 Ports	See 16.5.4(H) preceding	

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.6 Rates and Charges (Cont'd)
- per port

B) DS-1 (1.544Mbps)*

<u>Port Category</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>
Month-to-Month		
N-MSA	\$175.00	\$200.00
Price Band 4	175.00	200.00
Price Band 5	175.00	200.00
Price Band 6	175.00	200.00
3-Year Term		
N-MSA	165.00	0.00
Price Band 4	165.00	0.00
Price Band 5	165.00	0.00
Price Band 6	165.00	0.00
5-Year Term		
N-MSA	150.00	0.00
Price Band 4	150.00	0.00
Price Band 5	150.00	0.00
Price Band 6	150.00	0.00

* Effective September 15, 2001, these ports will no longer be available for new service requests.

CSM Reports

C) IPRS Networks of
200 IPRS Ports or Less
Per user

N-MSA	50.00	100.00
Price Band 4	50.00	100.00
Price Band 5	50.00	100.00
Price Band 6	50.00	100.00

D) IPRS Networks of Greater
Than 200 IPRS Ports
Per user

N-MSA	350.00	500.00
Price Band 4	350.00	500.00
Price Band 5	350.00	500.00
Price Band 6	350.00	500.00

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Reserved for Future Use16.7 Channel Extension Service#

Channel Extension Service provides dedicated point to point broadband data transmission between mainframe computers, between mainframes and peripheral devices and/or between Local Area Networks (LANs) using either a repeater backbone architecture or a dense wave division multiplexing (DWDM) backbone architecture.

16.7.1 Service Description

The repeater backbone architecture can support an ESCON (International Business Machines Corporation's (IBM's) Enterprise Systems CONnection protocol, ESCON® is an IBM registered trademark) or External Time Reference (ETR) interface with a bandwidth of 200 Mbps. The DWDM backbone architecture can support a bandwidth of up to 1.25 Gbps. Channel Extension Service is provided as a two point transmission between customer designated premises.

The ETR centralized time reference unit maintains time of day synchronization. This interface can be used on both the repeater backbone and the DWDM backbone architectures.

Channel Extension Service is provided over two fiber optic strands connecting the network interfaces at the customer designated premises. The repeater backbone architecture provides one ESCON channel over each fiber pair. The DWDM backbone architecture can provide up to fourteen channels over each fiber pair. For path redundancy, DWDM requires a second pair of fiber optic strands and a switch protection module in the equipment.

Effective October 5, 2007, orders for new Channel Extension Service are no longer permitted. The Telephone Company will continue to provide Channel Extension Service pursuant to this Section 16.7 on any existing Channel Extension Service that is in-service as of October 5, 2007, or any order for Channel Extension Service that is placed with the Telephone Company prior to October 5, 2007 (collectively, Existing CES), subject to the following condition:

The Telephone Company will continue to provide Existing CES to a term plan customer for the remainder of the customer's current commitment period plus an additional six (6) months beyond the expiration date of such commitment period at the existing rates of the current term plan, or until the customer replaces the Existing CES with a comparable Telephone Company provided service, or until the customer discontinues service, whichever occurs first. During the remainder of the current commitment period, and subject to the availability of facilities and equipment, orders involving additions and/or changes to Existing CES are permitted provided that they do not require a new commitment period. Orders involving additions and/or changes to Existing CES are not permitted during the additional six (6) month period.

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service# (Cont'd)16.7.2 Technical Specifications

The technical specifications for Channel Extension Service using the repeater backbone architecture are described in the following technical publications:

ANSI INCITS 269-1997 (R2007) Fiber Channel Single-byte Command Code Sets Connection Architecture (SBCON)

Enterprise Systems Architecture/390 ESCON I/O Interface, Physical Layer
SA23-0394-06

ESA/390 ESCON I/O Interface
SA22-7202-02

ESCON Introduction
GA23-0383-01

Channel Extension Service using the DWDM backbone architecture is transparent for any data communications protocol and uses the application protocol of the attached device.

The compatible network channel interface code for Channel Extension Service using the repeater backbone architecture is 02FCF.20, and using the DWDM backbone architecture is 02FCF.125.

Service availability limited. Refer to # footnote on Page 16-12.

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service# (Cont'd)16.7.3 Terms and Conditions

Channel Extension Service is available between a customer's two premises where suitable single mode fiber optic facilities exist to provide such service. Where suitable facilities do not exist to provide the service, the Telephone Company may require that facilities be specially constructed subject to the provisions set forth in Sections 2.1.4, Provision of Services, and 5.1.3, Special Construction, preceding.

Channel Extension Service is provided under a 3 year or 5 year term plan as selected by the customer. Each channel is established with a contract that begins with the date of installation.

Channel Extension Service is provided on a Negotiated Interval as described in Section 5 preceding.

The Company will provide monitoring of the signal to the parameters specified in the technical references.

The Company cannot guarantee the successful performance of this service on the repeater backbone architecture when the distance between premises exceeds 20 kilometers or when transmission loss is greater than 14db. In these instances, a repeater is required. The maximum distance from end to end is approximately 43 kilometers, and the maximum number of repeaters per channel is one. The Telephone Company will determine the wire center in which such repeaters will be utilized.

The Telephone Company cannot guarantee the successful performance of this service on the DWDM backbone architecture when the transmission loss between premises is greater than 17db with Path Protection and 23db without Path Protection. The DWDM architecture does not have regeneration capabilities. The customer's interface will be 13nm.

The customer is responsible for purchasing the appropriate circuits and associated equipment required to provide the Telephone Company with out-of-band monitoring of the network devices. These circuits will connect the equipment located at the customer's premises to a control center location.

Service availability limited. Refer to # footnote on Page 16-12.

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service# (Cont'd)16.7.3 Terms and Conditions (Cont'd)

Network maintenance and network upgrades for Channel Extension Service are performed between 11:00pm and 8:00am. At times, during the hours of maintenance activity, it will be necessary to place a customer's service in an inactive (out of service) condition. The amount of time that this scheduled out of service condition will exist is called a "maintenance window." The Company will provide notice to the customer prior to the maintenance window. Down time during a maintenance window does not qualify for credit allowance as a service outage.

Moves and relocations of a channel termination are treated as disconnects.

Channel Extension Service is supported by the Telephone Company's Single Point of Contact (SPOC) center, which provides continuous maintenance, trouble resolution, and network monitoring twenty-four hours per day, seven days per week (24x7). Service order processing and network installation functions are performed during normal business hours only.

16.7.4 Rate Regulations

The minimum payment period for Channel Extension Service is 3 years.

All rate elements of the same channel are charged in the same term plan.

At the expiration of a term plan, the customer's Channel Extension Service will automatically be renewed at the currently effective 3 year or 5 year rate or the customer may subscribe to a new term plan.

Termination liability charges apply when a service is disconnected prior to the end of the selected term period. Liability is assessed as follows:

For the termination of a 3 year term plan prior to its expiration date, the termination liability is equal to 100% of the applicable monthly charges (channel terminations, mileage and either repeater or redundant path switching) for each month or fraction thereof remaining in the term plan.

For the termination of a 5 year term plan, the termination liability is equal to the difference between the monthly rates for 36 months at the 3-year term rates and the actual number of months the plan has been in effect multiplied by the 5-year monthly rates.

Termination liability is not assessed when the customer elects to change a current plan to a longer term plan. The current plan is cancelled and the new longer term plan is established.

Service availability limited. Refer to # footnote on Page 16-12.

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service# (Cont'd)16.7.5 Rate Categories

Applicable rate categories with monthly recurring rates are channel termination, channel mileage, and where applicable, repeater or redundant path switching rate elements.

A channel termination rate element applies for each customer designated premises at which the channel is terminated. It includes the interface at each designated premises and the communications path from the premises to the serving wire center. As a two point service, each Channel Extension Service has two channel terminations. An Initial Channel Termination monthly recurring charge applies for the first channel termination at each premises. A Subsequent Channel Termination Charge applies for the second and any subsequent channel terminations added at each premises.

The channel mileage rate category applies for the interoffice transmission facilities between the serving wire centers. It consists of a fixed and a per mile rate element. See Section 7.4.6 preceding for mileage measurement.

The Repeater rate element applies when repeater equipment is required in a wire center to meet the transmission requirements for the service using the repeater backbone architecture. The Initial monthly recurring Repeater Charge applies for the first Channel Extension service requiring a repeater in a serving wire center. The Subsequent Repeater Charge applies to the second and all succeeding services requiring a repeater in the same wire center.

The Redundant Path Switching rate element applies when path redundancy is provided in the network for the service using the DWDM backbone redundancy.

Nonrecurring charges apply to the channel termination rate category. There are Initial and Subsequent charges that are applied on the same basis as the recurring rate element.

Service availability limited. Refer to # footnote on Page 16-12.

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service# (Cont'd)16.7.6 Rates and Charges

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
-		
(A) Repeater Backbone Architecture		
(1) Channel Terminations		
<u>3 Year</u>		
Per Initial Termination		
N-MSA	\$3,600.00	\$1,500.00
Price Band 4	3,600.00	1,500.00
Price Band 5	3,600.00	1,500.00
Price Band 6	3,600.00	1,500.00
Per Subsequent Termination		
N-MSA	1,250.00	1,100.00
Price Band 4	1,250.00	1,100.00
Price Band 5	1,250.00	1,100.00
Price Band 6	1,250.00	1,100.00
<u>5 Year</u>		
Per Initial Termination		
N-MSA	3,250.00	1,500.00
Price Band 4	3,250.00	1,500.00
Price Band 5	3,250.00	1,500.00
Price Band 6	3,250.00	1,500.00
Per Subsequent Termination		
N-MSA	900.00	1,100.00
Price Band 4	900.00	1,100.00
Price Band 5	900.00	1,100.00
Price Band 6	900.00	1,100.00

Service availability limited. Refer to # footnote on Page 16-12.

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service# (Cont'd)16.7.6 Rates and Charges (Cont'd)(A) **Repeater Backbone Architecture** (Cont'd)(2) **Channel Mileage**

		<u>Monthly Rate</u>	
		<u>Fixed</u>	<u>Per Mile</u>
<u>3 Year</u>			
	N-MSA	20.00	135.00
	Price Band 4	20.00	135.00
	Price Band 5	20.00	135.00
	Price Band 6	20.00	135.00
<u>5 Year</u>			
	N-MSA	15.00	100.00
	Price Band 4	15.00	100.00
	Price Band 5	15.00	100.00
	Price Band 6	15.00	100.00

Service availability limited. Refer to # footnote on Page 16-12.

Issued: June 16, 2010

Effective: July 1, 2010

(This page filed under Transmittal No. 5)
Vice President, Government and Regulatory Affairs
180 S. Clinton Ave., Rochester, NY 14646

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service# (Cont'd)16.7.6 Rates and Charges (Cont'd)(A) **Repeater Backbone Architecture** (Cont'd)

(3) Repeater		Monthly Rate	Nonrecurring Charge
<u>3 Year</u>			
Per Initial Circuit			
	N-MSA	1,700.00	N/A
	Price Band 4	1,700.00	N/A
	Price Band 5	1,700.00	N/A
	Price Band 6	1,700.00	N/A
Per Subsequent Circuit			
	N-MSA	800.00	N/A
	Price Band 4	800.00	N/A
	Price Band 5	800.00	N/A
	Price Band 6	800.00	N/A
<u>5 Year</u>			
Per Initial Circuit			
	N-MSA	1,500.00	N/A
	Price Band 4	1,500.00	N/A
	Price Band 5	1,500.00	N/A
	Price Band 6	1,500.00	N/A
Per Subsequent Circuit			
	N-MSA	600.00	N/A
	Price Band 4	600.00	N/A
	Price Band 5	600.00	N/A
	Price Band 6	600.00	N/A

Service availability limited. Refer to # footnote on Page 16-12.

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service# (Cont'd)16.7.6 Rates and Charges (Cont'd)(B) **Dense Wave Division Multiplexing Backbone Architecture**(1) **Channel Terminations**

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
<u>3 Year</u>		
Per Initial Termination		
N-MSA	\$4,600.00	\$1,000.00
Price Band 4	4,600.00	1,000.00
Price Band 5	4,600.00	1,000.00
Price Band 6	4,600.00	1,000.00
Per Subsequent Termination		
N-MSA	900.00	500.00
Price Band 4	900.00	500.00
Price Band 5	900.00	500.00
Price Band 6	900.00	500.00
<u>5 Year</u>		
Per Initial Termination		
N-MSA	4,500.00	1,000.00
Price Band 4	4,500.00	1,000.00
Price Band 5	4,500.00	1,000.00
Price Band 6	4,500.00	1,000.00
Per Subsequent Termination		
N-MSA	750.00	500.00
Price Band 4	750.00	500.00
Price Band 5	750.00	500.00
Price Band 6	750.00	500.00

Service availability limited. Refer to # footnote on Page 16-12.

ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service# (Cont'd)16.7.6 Rates and Charges (Cont'd)(B) **Dense Wave Division Multiplexing Backbone Architecture** (Cont'd)(2) **Channel Mileage**

		<u>Monthly Rate</u>	
		<u>Fixed</u>	<u>Per Mile</u>
<u>3 Year</u>			
	N-MSA	\$20.00	\$135.00
	Price Band 4	20.00	135.00
	Price Band 5	20.00	135.00
	Price Band 6	20.00	135.00
<u>5 Year</u>			
	N-MSA	15.00	100.00
	Price Band 4	15.00	100.00
	Price Band 5	15.00	100.00
	Price Band 6	15.00	100.00

(3) **Redundant Path Switching**

		<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
<u>3 Year</u>			
Per Network			
	N-MSA	600.00	N/A
	Price Band 4	600.00	N/A
	Price Band 5	600.00	N/A
	Price Band 6	600.00	N/A
<u>5 Year</u>			
Per Network			
	N-MSA	500.00	N/A
	Price Band 4	500.00	N/A
	Price Band 5	500.00	N/A
	Price Band 6	500.00	N/A

Service availability limited. Refer to # footnote on Page 16-12.