

1. SONET RING AND ACCESS SERVICES^{/1/}

GENERAL

Additional terms and conditions applicable to Special Access Services may be found in Part 2, Section 2.

All rates and charges may be adjusted at a later date.

The minimum period for SONET Ring and Access Services^{/1/} dedicated ring configuration is a 3 year Rate Stability Payment Plan.

/1/ Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1/} (cont'd)**DEFINITION OF TERMS**

Types of Connections for Primary Node Links and Central Office Access Ports:

STS1/DS1: provides for 28 DS1 (Local Loop Access Links - copper or Fiber Advantage) services from the customer's premises to the central office Digital Cross Connect System onto the STS-1 interface.

STS1/DS3: provides for DS3 to DS3 Cross Connect of Local Loop Access Links or Fiber Advantage service from the customer's premises to the central office onto the STS-1 interface.

STS1 hardwired for DS3: provides for DS3 services from the customer premises through the central office bypassing all electronic Cross Connect equipment (Capacity is one DS3).

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Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1} (cont'd)**A. BASIC SERVICE DESCRIPTION**

SONET Ring and Access Services provide dedicated bandwidth capacity (bit rate capacity or bit speed) over self-healing ring and two-point (a.k.a. circuit service) facility configurations for a single customer. Connecting facilities carry synchronous and asynchronous transmissions. The service includes enhanced survivability and network management per SONET (Synchronous Optical Network) technology.

Synchronous Transport Signal-level 1 (STS-1) at 51 Mbps is the basic SONET technology building block. Electrical signals in the form of digital pulses are converted to Optical Carrier rates (OC-n) for transmission on fiber optics.

The Company's service supports synchronous bandwidth capacities at 155 Mbps, 622 Mbps and 2.4 Gbps. The SONET add/drop multiplexer aggregates lesser bit speed services onto the dedicated ring or two point(circuit service) configurations.

Rate elements are:

- Premises and Central Office Nodes for connecting to the ring, using the SONET add/drop multiplexer.
- Premises and Central Office Access Ports that identify facility interfaces.
- Local Loop Access Links that connect a customer's premise to the central office.
- Primary Node Links connecting the primary central office node to the customer's premises or Point of Presence.

Plus Dedicated Ring Fees, Mileage and Optional Features.

An EIS Cross-Connect may connect to a SONET Central Office Access Node or Port.

^{/1} /1/ Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1/} (cont'd)**A. BASIC SERVICE DESCRIPTION (cont'd)**

All service configurations have one working and one standby transmission path. In the event of failure of the customer's transmission path, SONET technology will switch, within 50 milliseconds of detection, the customer's transmissions to a dedicated standby path.

SONET Ring and Access Services are planned for the major metropolitan areas of California. By the end of 1996 facilities will be available in many areas of California including the major central offices of the San Francisco, Sacramento and Los Angeles metropolitan areas, plus Orange and San Diego counties. Where facilities and/or operating conditions do not permit the availability of services, Special Construction will apply as set forth in Part 2, Section 5.

Upon request, SONET Ring and Access Services may be placed on diverse fiber facilities where available. Diversity is available as shown in Part 15, Section 3.1, F.3.f.

Channel Interfaces

Compatible channel interfaces are listed in Technical Reference PUB L-780046-PB/NV - Technical Requirements for SONET Ring and Access Services.

For the EoS (Ethernet over SONET) offering of 100 Mbps for SONET Ring service, the compatible channel interface is listed in Technical Reference TP-76-412-000.

Interfaces for Ethernet over SONET (EOS) are listed in Technical Reference No. TP-76-412-000.

/1/ Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
 See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1/} (cont'd)**A. BASIC SERVICE DESCRIPTION (cont'd)****(1) Mileage**

Mileage charges apply to the varying configurations of the SONET Ring and Access Services. Mileage is charged based on V&H miles determined from National Exchange Carrier Association (NECA) Tariff FCC No. 4. Fractions of a mile are rounded up to the whole mile for rate calculations.

For the dedicated ring recurring mileage is for the interoffice facilities between nodes. The chargeable mileage is that mileage per link exceeding the ten miles included in the Dedicated Ring Fee for Interoffice or Alternate Wire Center. Distances obtained from V&H coordinates set forth in NECA Tariff FCC No. 4, will determine the chargeable mileage on a per link basis. The V&H Coordinates of the normal serving wire center of the customer premises will be used for calculating mileage from Premises Nodes. The monthly mileage charge for the dedicated ring is determined by multiplying the applicable rate times the chargeable mileage.

For circuit service configurations recurring mileage provides for interoffice facilities between the end point nodes of the circuit. The chargeable mileage is the distance between the central offices with the end point nodes. These distances are determined using the V&H coordinates of NECA Tariff FCC No. 4. The monthly mileage charge for circuit service is determined by multiplying the applicable monthly rate times the chargeable mileage.

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Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1} (cont'd)**A. BASIC SERVICE DESCRIPTION (cont'd)****(2) Dedicated Ring Fee**

Dedicated Ring Fees provide for the construction of dedicated transport facilities, related service order activity and ongoing ring maintenance. There are three Fees: (1) Interoffice: for CO Node to CO Node facilities; (2) Local Loop: for facilities connecting a CO Node to one or more Premises Nodes in the customer's normal serving wire center, and (3) Alternate Wire Center: for facilities connecting a Premise Node to a central office outside of the customer's normal serving wire center. The fee does not apply to circuit service configurations.

(3) CO and Premises Node

Nodes, available in Rate Stability Payment Plans, aggregate lower bandwidth capacities onto the ring or circuit service through use of the SONET add/drop multiplexer function. The CO Node is located in the central office; the Premises Node, including Customer Provided Node, at the customer's location. Customer Provided Nodes must connect to Company nodes. CO Nodes shall be required for extending the range of the ring (i.e., for ring regeneration). Circuit service CO Nodes may be used for interconnection to other rings (appropriate Circuit Service Mileage and CO Access Ports will be charged). For ring nodes bandwidth capacities are 155 Mbps, 622 Mbps, and 2.4 Gbps. For circuit service configurations, bandwidth capacities are 155 Mbps and 622 Mbps. A minimum of one CO Node is required on a ring.

An EIS Cross-Connect may connect to a CO Node.

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Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1} (cont'd)**A. BASIC SERVICE DESCRIPTION (cont'd)**

(4) Local Loop Access Link

(a) Local Loop Access Link With Equipment

The Local Loop Access Link provides the equipment for delivering transmissions from the customer's premises to the Company's dedicated ring or circuit service. Bandwidth is 155 Mbps.

(b) Local Loop Access Link Without Equipment

Reserved for future use

(5) Premises Access Port

The Premises Access Port is associated with a Premises Node at the customer's location. It is identified by 1.5 Mbps, 45 Mbps, 155 Mbps, 100 Mbps and 622 Mbps bandwidth capacities.

An Additional Connection for 2.4 Gbps (OC-48) at 622 Mbps² bandwidth capacity connects to a Premises Node to accommodate interfaces at 1.5 Mbps or 155 Mbps. This additional connection port must be purchased for each 622 Mbps² bandwidth before the 1.5 Mbps, or 155 Mbps Premises Access Ports will work on an OC-48 Premises Node.

The additional connection for 2.4 Gbps at 622 Mbps² is not required for OC-12c (622 Mbps) Premises Access Ports, 155 Mbps Premises Access Ports or DS3 (45 Mbps) Premises Access Ports. However, an OC-48 Premises Node is required to provision 622 Mbps bandwidth service or OC-12c Premises Access Ports.

Existing customers subscribing to SONET Ring service must have completed at least 36 months in a single or subsequent Term Payment Plan (Rate Stability Plan) and sign a new 3 or 5 Year Term Payment Plan (Rate Stability Plan) in order to qualify for the 100 Mbps or 1 Gbps Ethernet Port offering.

^{/1}/ Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

^{/2}/ 622 Mbps Additional Connection interface not applicable to new customers served by new equipment for interface connections to 155 Mbps. Additional Connection still required for 1.5 Mbps capacity. Existing customers with the Additional Connection interface will retain it.

1. SONET RING AND ACCESS SERVICES^{/1/} (cont'd)**A. BASIC SERVICE DESCRIPTION (cont'd)****(6) Central Office Access Port**

The Central Office Access Port connects Local Loop Access Links, or channel terminations, multiplexers or circuit service facilities to the Central Office Node in dedicated ring configurations. It offers bandwidth capacities of 51 Mbps, 155 Mbps and 622 Mbps.

An EIS Cross-Connect may connect to a Central Office Access Port.

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Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1/} (cont'd)**A. BASIC SERVICE DESCRIPTION (cont'd)****(7) Primary Node Link**

The Primary Node Link may act as the interface to the dedicated interoffice ring at the customer's designated primary CO Node location (primary node). The Primary Node Link can be located at either a customer's premises or a Point of Presence (POP). The customer can designate one primary node on a ring that has no premises node locations for use with the Primary Node Links. Other nodes on the ring require Central Office Access Ports, Local Loop Access Links and/or channel terminations for the ring interface. The Primary Node Link cannot be used on rings with a Premise Node. Primary Node Link bandwidth capacities are: 1.5 Mbps, 51 Mbps or 155 Mbps. The Primary Node Link can only be used on rings not having a Premises Node.

(8) Optional Features and Functions**(a) Central Office Multiplexing****(i) DS3 to DS1**

An arrangement that converts a DS3 channel to 28 DS1 channels using digital time division multiplexing.

(ii) There is no SONET multiplexing arrangement for bandwidth capacities above 51 Mbps.**(b) Additional Connection for 2.4 Gbps (OC-48)****(i) OC3 not offered****(ii) OC-12 to DS1**

An arrangement for DS1 limits availability of total drop capacity.

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Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1} (cont'd)

A. BASIC SERVICE DESCRIPTION (cont'd)

(8) Optional Features and Functions (cont'd)

(b) Customer Provided Node

Customer Provided Nodes, compatible with Company specifications, may connect from customer premises to Company provided nodes on the ring. The customer will furnish all equipment between the Company's optical network interface units serving the customer premises. Through a mutually agreed upon interoperability agreement the Company will maintain network control and inventory as well as direct all provisioning and maintenance of the ring.

For network security purposes, the customer will place the provided node/transport equipment in a locked cabinet or other appropriate secure arrangement.

/1/ Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1/} (cont'd)**A. BASIC SERVICE DESCRIPTION (cont'd)****(9) Ethernet over SONET (EoS)**

Ethernet over SONET (EoS) interfaces have distance limitations from the Company Serving Wire Center to the customer's demarcation point. These limitations will be discussed with the customer and the Company and customers will determine the appropriate EoS interface for the customer's SONET Ring service.

Ethernet over SONET (EoS) requires that customers utilize certain settings for their Customer Provided Equipment (CPE). The Company will work cooperatively with the customer to make sure that customer utilizes the correct settings. In some cases customers may be required to make modifications (including upgrades) to their CPE, which will be entirely at the customer's expense. Failure to use these settings will result in service problems possibly leading to outages for which the customer will not hold the Company liable.

Ethernet over SONET (EoS) throughputs may vary depending on the type of equipment used to provide the service. Certain protocols may not be available. Additional information on the settings that customers must utilize can be found in Technical Publication TP-76-412-000.

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Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1/} (cont'd)**B. RATES AND CHARGES**

(1) Mileage

		<u>USOC</u>	<u>Monthly Rate</u>
(a) Dedicated Ring			
	- per interoffice mile		
155 Mbps (OC3)	0 - 10 miles	1L8XX	NO
	over 10 miles	1L8XX	\$145.00
622 Mbps (OC12)	0 - 10 miles	1L8XX	NO
	over 10 miles	1L8XX	485.00
2.4 Gbps (OC48)	0 - 10 miles	1L8XX	NO
	over 10 miles	1L8XX	968.00
(b) Circuit Service			
	- per interoffice mile		
155 Mbps (OC3c)		1L8XX	145.00
622 Mbps (STS-12)		1L8XX	485.00

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Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1} (cont'd)

B. RATES AND CHARGES (cont'd)

(2) Dedicated Ring Fee

	<u>USOC</u>	Monthly <u>Rate</u>	Nonrecurring <u>Charge</u>
(a) Interoffice			
- per CO Node to CO Node Link			
<u>3 Year Plan</u>			
155 Mbps (OC3)	DEDF3	\$ 440.00	\$165.00
622 Mbps (OC12)	DEDF3	495.00	165.00
2.4 Gbps (OC48)	DEDF3	990.00	165.00
<u>5 Year Plan</u>			
155 Mbps (OC3)	DEDF5	385.00	NO
622 Mbps (OC12)	DEDF5	440.00	NO
2.4 Gbps (OC48)	DEDF5	880.00	NO
(b) Local Loop			
- per CO Node to Premises Node Link (within the customer's wire center)			
<u>3 Year Plan</u>			
155 Mbps (OC3)	DEDL3	990.00	165.00
622 Mbps (OC12)	DEDL3	1540.00	165.00
2.4 Gbps (OC48)	DEDL3	2090.00	165.00
<u>5 Year Plan</u>			
155 Mbps (OC3)	DEDL5	880.00	NO
622 Mbps (OC12)	DEDL5	1265.00	NO
2.4 Gbps (OC48)	DEDL5	1650.00	NO

/1/ Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1/} (cont'd)

B. RATES AND CHARGES (cont'd)

(2) Dedicated Ring Fee (cont'd)

(c) Alternate Wire Center

- per CO Node to Premises Node Link
(outside of customer's wire center)

3 Year Plan

	USOC	Monthly Rate	Nonrecurring Charge
155 Mbps (OC3)	DEDA3	\$1320.00	\$165.00
622 Mbps (OC12)	DEDA3	1430.00	165.00
2.4 Gbps (OC48)	DEDA3	2420.00	165.00

5 Year Plan

155 Mbps (OC3)	DEDA5	1100.00	NO
622 Mbps (OC12)	DEDA5	1210.00	NO
2.4 Gbps (OC48)	DEDA5	2035.00	NO

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Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1} (cont'd)

B. RATES AND CHARGES (cont'd)

(3) Nodes: CO and Premises

- per node

(a) CO Node for Dedicated Ring

3 Year Plan

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
155 Mbps (OC3)	NODC3	\$2145.00	\$1540.00
622 Mbps (OC12)	NODC3	2420.00	1760.00
2.4 Gbps (OC48)	NODC3	5500.00	3410.00

5 Year Plan

155 Mbps (OC3)	NODC5	1760.00	NO
622 Mbps (OC12)	NODC5	1980.00	NO
2.4 Gbps (OC48)	NODC5	4785.00	NO

(b) Premises Node for Dedicated Ring

3 Year Plan

155 Mbps (OC3)	NODD3	2970.00	1540.00
622 Mbps (OC12)	NODD3	3300.00	1760.00
2.4 Gbps (OC48)	NODD3	6545.00	3410.00

5 Year Plan

155 Mbps (OC3)	NODD5	2145.00	NO
622 Mbps (OC12)	NODD5	2420.00	NO
2.4 Gbps (OC48)	NODD5	5445.00	NO

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Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1/} (cont'd)

B. RATES AND CHARGES (cont'd)

(3) Nodes: CO and Premises (cont'd)
 - per node

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(c) Customer Provided Node for Dedicated Ring			
<u>3 Year Plan</u>			
155 Mbps (OC3)	NODN3	\$ 770.00	\$1430.00
622 Mbps (OC12)	NODN3	880.00	1650.00
2.4 Gbps (OC48)	NODN3	990.00	3300.00
<u>5 Year Plan</u>			
155 Mbps (OC3)	NODN5	660.00	NO
622 Mbps (OC12)	NODN5	770.00	NO
2.4 Gbps (OC48)	NODN5	880.00	NO
(d) CO Node for Two-point (circuit service) Configuration			
<u>Month-to-Month</u>			
155 Mbps (OC3/3c)	NOCCM	1320.00	
622 Mbps (STS12)	NOCCM	4950.00	
<u>1 Year Plan</u>			
155 Mbps (OC3/3c)	NOCC1	1210.00	
622 Mbps (STS12)	NOCC1	4400.00	
<u>3 Year Plan</u>			
155 Mbps (OC3/3c)	NOCC3	990.00	
622 Mbps (STS12)	NOCC3	3300.00	
<u>5 Year Plan</u>			
155 Mbps (OC3/3c)	NOCC5	770.00	
622 Mbps (STS12)	NOCC5	2310.00	

/1/ Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
 See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1/} (cont'd)**B. RATES AND CHARGES (cont'd)**

(4) Local Loop Access Link

<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>		<u>1st Add'l</u>		
		<u>1st</u>	<u>Add'l</u>			
- per link (with equipment)						
<u>Month-to-Month</u>						
155 Mbps (OC3c)	LLALM	\$8360.00	\$61800.00	\$30900.00		
<u>1 Year Plan</u>						
155 Mbps (OC3c)	LLAL1	6930.00	6600.00	3300.00		
<u>3 Year Plan</u>						
155 Mbps (OC3c)	LLAL3	3850.00	3300.00	1650.00		
<u>5 Year Plan</u>						
155 Mbps (OC3c)	LLAL5	3190.00	NO	NO		

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Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1/} (cont'd)

B. RATES AND CHARGES (cont'd)

(5) Premises Access Ports

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
			<u>1st</u>	<u>Add'l</u>
- per port				
<u>Month-to-Month</u>				
1.5 Mbps (DS1)	LSA1M	\$110.00	\$770.00	\$385.00
45 Mbps (DS3)	LSA3M	400.00	770.00	385.00
155 Mbps (OC3c)	LSAO1M	814.00	770.00	385.00
<u>1 Year Plan</u>				
1.5 Mbps (DS1)	LSA11	100.00	770.00	385.00
45 Mbps (DS3)	LSA31	363.00	770.00	385.00
155 Mbps (OC3c)	LSAO1	726.00	770.00	385.00
<u>3 Year Plan</u>				
1.5 Mbps (DS1)	LSA13	72.00	385.00	193.00
45 Mbps (DS3)	LSA33	280.00	385.00	193.00
155 Mbps (OC3c)	LSAO3	572.00	385.00	193.00
<u>5 Year Plan</u>				
1.5 Mbps (DS1)	LSA15	61.00	NO	NO
45 Mbps (DS3)	LSA35	242.00	NO	NO
155 Mbps (OC3c)	LSAO5	539.00	NO	NO

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Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1/} (cont'd)

B. RATES AND CHARGES (cont'd)

(5) Premises Access Ports (cont'd)

Additional Connection for
2.4 Gps (OC48):
- per port

Month-to-Month

		<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
				<u>1st</u>	<u>Add'l</u>

622 Mbps		LSABM	\$2420.00	\$770.00	\$385.00
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1 Year Plan

622 Mbps		LSAB1	2200.00	770.00	385.00
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3 Year Plan

622 Mbps		LSAB3	1925.00	385.00	192.00
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5 Year Plan

622 Mbps		LSAB5	1650.00	NO	NO
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Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1} (cont'd)

B. RATES AND CHARGES (cont'd)

(6) Central Office Access Ports

USOC	Monthly <u>Rate</u>	Nonrecurring <u>Charge</u>		
		<u>1st</u>	<u>Add'l</u>	
- per port				
<u>Month-to-Month</u>				
51 Mbps (STS1 hardwired)	LSADM	\$ 302.00	\$660.00 \$330.00	
51 Mbps (STS1/DS3)	LSASM	302.00	660.00 330.00	
51 Mbps (STS1/DS1)	LSAW	1100.00	660.00 330.00	
M				
155 Mbps (OC3/c-48)	LSA4M	825.00	660.00 330.00	
155 Mbps (OC3/c-12)	LSAC	407.00	660.00 330.00	
M				
622 Mbps (STS12)	LSATM	907.00	660.00 330.00	
<u>1 Year Plan</u>				
51 Mbps (STS1 hardwired)	LSAD1	275.00	660.00 330.00	
51 Mbps (STS1/DS3)	LSAS1	275.00	660.00 330.00	
51 Mbps (STS1/DS1)	LSAW1	968.00	660.00 330.00	
155 Mbps (OC3/c-48)	LSA41	726.00	660.00 330.00	
155 Mbps (OC3/c-12)	LSAC1	363.00	660.00 330.00	
622 Mbps (STS12)	LSAT1	825.00	660.00 330.00	
<u>3 Year Plan</u>				
51 Mbps (STS1 hardwired)	LSAD3	192.00	330.00 165.00	
51 Mbps (STS1/DS3)	LSAS3	192.00	330.00 165.00	
51 Mbps (STS1/DS1)	LSAW3	715.00	330.00 165.00	
155 Mbps (OC3/c-48)	LSA43	522.00	330.00 165.00	
155 Mbps (OC3/c-12)	LSAC3	259.00	330.00 165.00	
622 Mbps (STS12)	LSAT3	578.00	330.00 165.00	
<u>5 Year Plan</u>				
51 Mbps (STS1 hardwired)	LSAD5	165.00	NO NO	
51 Mbps (STS1/DS3)	LSAS5	165.00	NO NO	
51 Mbps (STS1/DS1)	LSAW5	605.00	NO NO	
155 Mbps (OC3/c-48)	LSA45	440.00	NO NO	
155 Mbps (OC3/c-12)	LSAC5	220.00	NO NO	
622 Mbps (STS12)	LSAT5	495.00	NO NO	

/1/ Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

1. SONET RING AND ACCESS SERVICES^{/1/} (cont'd)

B. RATES AND CHARGES (cont'd)

(7) Primary Node Link

<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
		<u>1st</u>	<u>Add'l</u>

- per link

3 Year Plan

51 Mbps (STS1 hardwired)	PLNB3	\$1540.00	\$440.00	\$220.00
51 Mbps (STS1/DS3)	PNLD3	1540.00	440.00	220.00
51 Mbps (STS1/DS1)	PNLC3	1925.00	440.00	220.00
155 Mbps (OC3/c-48)	PNLF3	3190.00	440.00	220.00
155 Mbps (OC3/c-12)	PNLE3	2200.00	440.00	220.00

5 Year Plan

51 Mbps (STS1 hardwired)	PLNB5	1430.00	NO	NO
51 Mbps (STS1/DS3)	PNLD5	1430.00	NO	NO
51 Mbps (STS1/DS1)	PNLC5	1815.00	NO	NO
155 Mbps (OC3/c-48)	PNLF5	3080.00	NO	NO
155 Mbps (OC3/c-12)	PNLE5	2090.00	NO	NO

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Frozen/Grandfathered SONET Ring and Access Service effective June 30, 2006.
See Part 2, Section 2 (2.3.2.4.F).

2. GIGAMAN® SERVICE

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GENERAL

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Effective September 30, 2017, GigaMAN Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for GigaMAN Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing GigaMAN term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

(N)
(N)

Additional terms and conditions applicable to Special Access Services may be found in Part 2, Section 2.

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- Alternate Wire Center Diversity is not available
- Equipment Plus Alternate Wire Center Path Protection is not available

All rates and charges may be adjusted at a later date.

GigaMAN® service is available at the listed rates in this Guidebook where facilities and operating conditions permit. Where facilities can only be provided as a Special Construction offering, special construction charges as set forth in Part 2, Section 5, on an Individual Case Basis (ICB), will apply.

A. BASIC SERVICE DESCRIPTION

GigaMAN® (Gigabit Metro Area Network) Service is an intraLATA service providing transmission of digital signals at a discrete bit rate of 1 Gigabit per second (Gbps) in Ethernet format (Ethernet IEEE 802.3) between end-user customer premises. GigaMAN® is available in a point to point service configuration.

GigaMAN® service is only available where facilities and operating conditions permit. Where facilities and/or operating conditions do not permit, Special Construction as set forth in Part 2, Section 5, shall apply.

B. TERMS AND CONDITIONS

- (1) The customer provided equipment (CPE) must deliver the data signal for the GigaMAN® transport within the industry specification for the subscribed data service.
- (2) GigaMAN® provides physical layer transport only. The Company assumes no responsibility for the through transmission of signals generated by the customer's CPE, for the quality of, or defects in such transmission, for the reception of signals by the customer's CPE, or address signaling to the extent addressing is performed by the customer's CPE. Error detection and correction of data generated by the customer's CPE is the customer's responsibility.
- (3) GigaMAN® is designed to provide connectivity at the discrete bit rate of 1 Gbps.

/1/

® GigaMAN is a registered trademark of AT&T Intellectual Property

/1/ (C)

/1/ Material formerly appeared in Part 15, Section 4, Sheets 1 and 2.

2. GIGAMAN® SERVICE (cont'd)

/2/

B. TERMS AND CONDITIONS (cont'd)

- (4) GigaMAN® is available on one, two, three or five year Term Pricing Plan (TPP) offerings.
- (5) Out of service adjustments for credit allowances are set forth in Part 2, Section 2 (see 2.3.5.4).
- (6) GigaMAN® is not available in a Meet Point billing configuration as set forth in Part 2, Section 2 (see 2.3.5.7 and 3.2.10).
- (7) Conversion from other services (e.g., Hicap DS1 1,544 Mbps, etc.) are not available with GigaMAN® service.
- (8) Regulations for moves of a GigaMAN® service are set forth in Part 2, Section 2 (see 2.4.12.D.(2)).
- (9) The Minimum period for GigaMAN® service is 12 months.
- (10) GigaMAN® service is not offered with guaranteed throughput thresholds.
- (11) A repeater (circuit regenerator) may be used to extend the transmission of GigaMAN® service. The Company will determine when repeaters are necessary. Repeaters will be located in the Company Serving Wire Center.

C. OPTIONAL FEATURES

- (1) Diversity

GigaMAN® service is offered with Diversity. Diversity requires two GigaMAN® services purchased by the same customer of record.^{/1/}

The customer premises locations for the two Diverse GigaMAN® services may differ respectively in A to Z locations for the two circuits and both circuits must be served by the same type of Company equipment.

Diversity is only available to GigaMAN® customers with service installed after November 13, 2003. Customers with installations completed prior to November 13, 2003 will not be able to order the Diversity options on their GigaMAN® service. Customers with the service installed prior to November 13, 2003 who request Diversity, would be required to convert their existing service per Part 2, Section 2 (see 2.4.12.,(2)A.).

GigaMAN® diversity (including Channel Termination Diversity, Alternate Wire Center Diversity and Inter-Wire Center Diversity) may be configured to be diverse from other eligible Access services as determined by the Company.

/2/

/1/ Alternate Wire Center Diversity does not require a second GigaMAN® circuit.

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/2/ Material formerly appeared in Part 15, Section 4, Sheets 3 and 4.

2. GIGAMAN® SERVICE (cont'd)

/2/

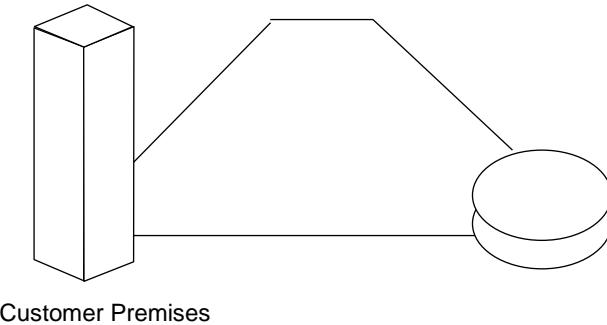
C. OPTIONAL FEATURES (cont'd)

(1) Diversity (cont'd)

a. Channel Termination Diversity (Local Channel Diversity)^{/1/}

Where facilities and/or operating conditions do not exist, Special Construction charges as set forth in Part 2, Section 5, may apply.

Circuit No.2 Diverse Route



Channel Termination Diversity (Local Channel Diversity)

Channel Termination Diversity (Local Channel Diversity) provides for a transmission path between a designated customer premises and the standard Serving Wire Center (SWC) that is diverse from the standard transmission path of the GigaMAN® service. With this arrangement, a Channel Termination will be provisioned over the standard route and another Channel Termination will be provisioned over the diverse route, both utilizing the same Serving Wire Center.

Channel Termination Diversity (Local Channel Diversity) does not provide for full diversity of the GigaMAN® service. It provides diversity from the splice point closest to the customer's property line. Customers requiring full diversity must utilize Special Construction as set forth in Part 2, Section 5.

/2/

/1/ GigaMAN® diversity (including Channel Termination Diversity, Alternate Wire Center Diversity and Inter-Wire Center Diversity) may be configured to be diverse from other eligible Access services as determined by the Company.

/2/

/2/ Material formerly appeared in Part 15, Section 4, Sheet 5.

2. GIGAMAN® SERVICE (cont'd)

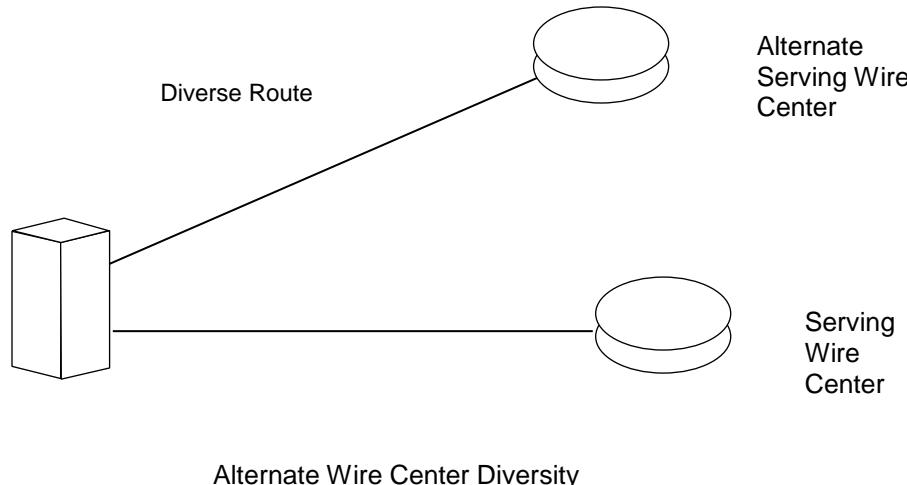
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C. OPTIONAL FEATURES (cont'd)

(1) Diversity (cont'd)

b. Alternate Wire Center Diversity

Where facilities and/or operating conditions do not exist, Special Construction charges as set forth in Part 2, Section 5, may apply.



Alternate Wire Center Diversity is offered on the Channel Termination only and may be applicable to one or both Channel Terminations of a GigaMAN® service.

Alternate Wire Center Diversity provides for a transmission path from the customer's designated premises through a Serving Wire Center that is not the customer's standard Serving Wire Center. The Company will select the closest Alternate Wire Center to the customer's premises.

Alternate Wire Center Diversity does not provide full diversity of the GigaMAN® service. Customers requiring full diversity must utilize Special Construction as set forth in Part 2, Section 5.

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 6.

2. GIGAMAN® SERVICE (cont'd)

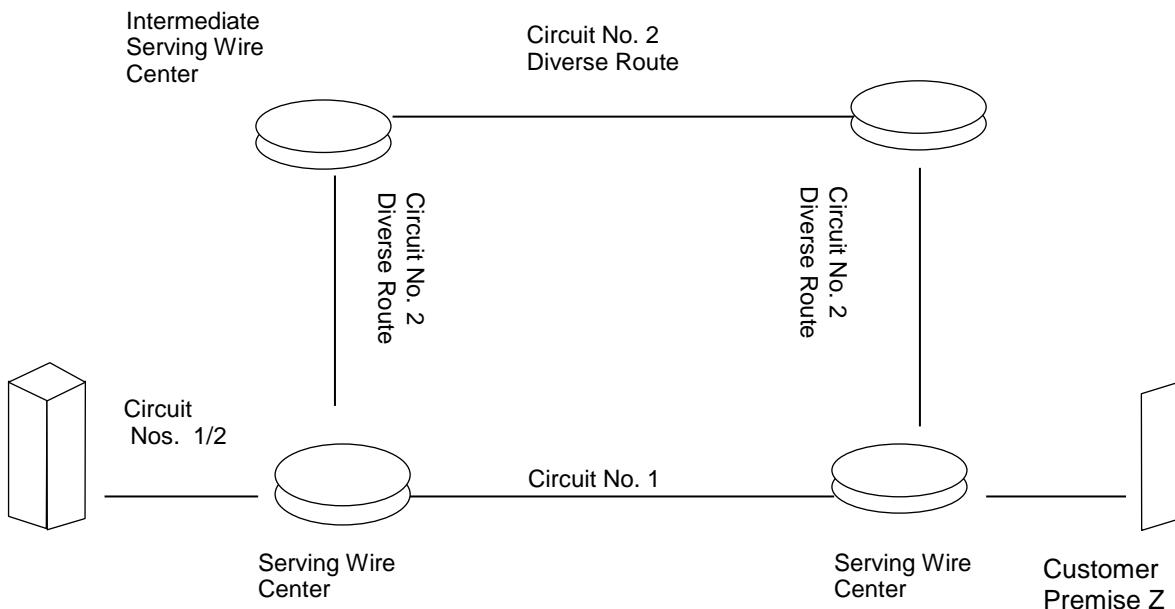
/2/

C. OPTIONAL FEATURES (cont'd)

(1) Diversity (Cont'd)

c. Inter-Wire Center Diversity^{1/}

Where facilities and/or operating conditions do not exist, Special Construction charges as set forth in Part 2, Section 5, may apply.



Inter-Wire Center Diversity

Inter-Wire Center Diversity applies to GigaMAN® service that requires more than one Serving Wire Center to provide the transmission path between the customer premises. Inter-Wire Center Diversity provides for a transmission path that is not the standard transmission path between the Serving Wire Centers of a GigaMAN® service.

The Company will select the closest diverse Serving Wire Centers to the customer's premises for the Inter-Wire Center Diversity.

Inter-Wire Center Diversity does not provide for full diversity of the GigaMAN® service. It provides a diverse route between Serving Wire Centers. Customers requiring full diversity must utilize Special Construction as set forth in Part 2, Section 5.

/2/

^{1/} GigaMAN® diversity (including Channel Termination Diversity, Alternate Wire Center Diversity and Inter-Wire Center Diversity) may be configured to be diverse from other eligible Access services as determined by the Company.

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/2/

^{2/} Material formerly appeared in Part 15, Section 4, Sheet 7.

2. GIGAMAN® SERVICE (cont'd)

/1/

C. OPTIONAL FEATURES (cont'd)**(2) Protection Options**

Protection options are available to GigaMAN® customers whose orders for GigaMAN® service were completed after January 5, 2004. Customers subscribing to GigaMAN® service prior to January 5, 2004 requesting Protection options must follow the Change rules set forth in Part 2, Section 2 (see 2.4.12).

Protection options are provisioned on the customer's GigaMAN® service and the customer is not required to purchase a second GigaMAN® circuit for Protection options. Protection options are applied on a per GigaMAN® circuit basis only. Protection options provide additional levels of reliability to GigaMAN® service. There are multiple Protection options offered. The options do not need to be the same, but both Channel Terminations of the GigaMAN® service must include some form of protection for the service to be considered protected (except for Power Protection which can be on either one or both ends).

Protection options are available where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not permit, Special Construction charges as set forth in Part 2, Section 5, may apply.

The Company will design the Protection options based upon the configuration of the customer's GigaMAN® service.

Additional repeaters may be necessary on the protected path as determined by the Company as set forth in Part 2, Section 2 (see 2.4.12.(2)B).

Protection switching in less than 50 milliseconds will occur on GigaMAN® services with Protection options, with the exception of Power Protection which is not Switch protected. Protection options are offered with a Service Level Agreements (SLA) that target a service availability of 99.999%. SLAs are not applicable in the event of a cable cut in any unprotected portion of the GigaMAN® service fiber path or when customer requested modifications to the service requires downtime.

GigaMAN® Protection options are offered as follows:

- Equipment Only Protection - Per Terminating End
- Equipment Plus Fiber Path Protection
 - Equipment Plus Alternate Wire Center Path Protection - Per Terminating End
 - Equipment Plus Channel Termination Path Protection - Per Terminating End
- Inter-Wire Center Path Protection - Per Interoffice Segment
- Power Protection

/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheets 8 and 9.

2. GIGAMAN® SERVICE (cont'd)

/1/

C. OPTIONAL FEATURES (cont'd)

(2) Protection Options (cont'd)

a. Equipment Only Protection – Per Terminating End

Equipment Only Protection offers one GigaMAN® signal routed on two different fiber pairs that co-exist in the same cable and conduit structure that terminate into the same device, but in a separate and distinct module. Protection switching will occur between the modules if necessary.

All protected configurations have one working and one standby path. In the event of a failure of the transmission path, GigaMAN® equipment will switch to a dedicated standby path within 50 milliseconds of detection. In the event of a failure to both fiber transmission paths, an Out Of Service condition will result. This form of protection can only be ordered per Channel Termination for each protected GigaMAN® service.

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 10.

2. GIGAMAN® SERVICE (cont'd)

/1/

C. OPTIONAL FEATURES (cont'd)

(2) Protection Options (cont'd)

b. Equipment Plus Fiber Path Protection

Equipment Plus Fiber Path Protection offers varying degrees of path protection for each Channel Termination of the GigaMAN® service, and is offered as follows:

(i) Equipment Plus Alternate Wire Center Path Protection – Per Terminating End

Equipment Plus Alternate Wire Center Path Protection offers one GigaMAN® signal Routed over one fiber pair of the protected GigaMAN® service from the customer's premises to the customer's normal Company Serving Wire Center, and a duplicate GigaMAN® signal routed over a diversely routed fiber pair to the Alternate Wire Center selected by the Company.

If any location(s) between the two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine to accept the engineered path or agree to pay Special Construction charges as set forth in Part 2, Section 5, to provide a completely diverse route where the ten foot allowance is not acceptable to the customer.

This option can be selected for one or both Channel Terminations of the GigaMAN® service.

All protected configurations have one working and one standby path. In the event of a failure of the transmission path, GigaMAN® equipment will switch to a dedicated standby path within 50 milliseconds of detection. In the event of a failure to both fiber transmission paths, an Out of Service condition will result. This form of protection can only be ordered per Channel Termination for each protected GigaMAN® service.

If a customer requests complete protection extending to the Company Serving Wire Center from their premises location when utilizing Equipment Protection Plus Alternate Wire Center Path Protection, they must request diverse entrance facilities into their premises at each end from the nearest Company splice point closest to the customer premises location. This work is subject to Special Construction charges as set forth in Part 2, Section 5.

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 11.

2. GIGAMAN® SERVICE (cont'd)

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C. OPTIONAL FEATURES (cont'd)

(2) Protection Options (cont'd)

b. Equipment Plus Fiber Path Protection (cont'd)

Equipment Plus Fiber Path Protection offers varying degrees of path protection for each Channel Termination of the GigaMAN® service, and is offered as follows: (cont'd)

(ii) Equipment Plus Channel Termination Path Protection – Per Terminating End

Equipment Plus Channel Termination Path Protection offers a duplicate GigaMAN® signal routed over two diversely routed fiber paths to the customer's normal Company Serving Wire Center.

If any location(s) between the two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine to accept the engineered path or agree to pay Special Construction charges as set forth in Part 2, Section 5, to provide a completely diverse route where the ten foot allowance is not acceptable to the customer.

All protected configurations have one working and one standby path. In the event of a failure of the transmission path, GigaMAN® equipment will switch to a dedicated standby path within 50 milliseconds of detection. In the event of a failure to both fiber transmission paths, an Out of Service condition will result.

This form of protection can only be ordered per Channel Termination for each protected GigaMAN® service, from the customer's premises location, or from the Company manhole/splice point nearest the customer premises, to the Company Serving Wire Center.

If a customer requests complete protection extending to the Company Serving Wire Center from their premises location when utilizing Equipment Protection Plus Channel Termination Path Protection, they must request diverse entrance facilities into their premises at each end from the nearest Company splice point closest to the customer premises location. This work is subject to Special Construction charges as noted above.

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 12.

2. GIGAMAN® SERVICE (cont'd)

/1/

C. OPTIONAL FEATURES (cont'd)

(2) Protection Options (cont'd)

c. Inter-Wire Center Path Protection – Per Interoffice segment

Inter-Wire Center Path Protection offers a duplicate GigaMAN® signal routed over two diversely routed fiber paths, between the two Company Serving Wire Centers or a SWC and an Alternate Wire Center. Path protection starts at the nearest Company manhole outside the Company Serving Wire Center.

If any location(s) between the two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine to accept the engineered path or agree to pay Special Construction charges as set forth in Part 2, Section 5 to provide a completely diverse route where the ten foot allowance is not acceptable to the customer.

All protected configurations have one working and one standby path. In the event of a failure of the transmission path, GigaMAN® equipment will switch to a dedicated standby path within 50 milliseconds of detection. In the event of a failure to both fiber transmission paths, an Out of Service condition will result.

d. Power Protection

Power Protection provides GigaMAN® customers with battery backup for up to eight (8) hours to maintain GigaMAN® equipment in the event of a power failure.

Power Protection is offered on a per rack or per cabinet basis, per customer premises, as determined by the Company. Requests for Power Protection are subject to equipment availability and compatibility. The Company will determine the availability, design and engineering requirements for Power Protection, and the appropriate number of service elements to apply. Power protection is available at either one end or both ends of the GigaMAN® service.

Customers in multi-tenant buildings will require separate equipment and bays dedicated to each customer.

The addition of Power Protection to existing GigaMAN® service may result in temporary service interruption.

Power Protection is not available for installations using the wall mounted cabinet.

Customers are responsible for providing floor space for power equipment as set forth in Part 2, Section 2 (see 2.3.4.3).

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 13.

2. GIGAMAN® SERVICE (cont'd)

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D. TECHNICAL REFERENCES

Technical specifications are set forth in the following technical references:

Ethernet Standards - SBC TP 76412-000

This publication may be obtained from:

APEx Support Team
(734) 523-7348

E. MOVES

/1/

Regulations regarding moves are set forth in Part 2, Section 2 (see 2.4.12).

/1/ Material formerly appeared in Part 15, Section 4, Sheet 14.

2. GIGAMAN® SERVICE (cont'd)

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F. RATES AND CHARGES

	<u>USOC</u>	Monthly <u>Rate</u>	Nonrecurring <u>Charge</u>
(1) Channel Termination			
- 1 Year Plan	LNVX1	\$3,300.00	\$1,500.00
- 2 Year Plan	LNVX2	\$3,100.00	\$1,500.00
- 3 Year Plan	LNVX3	\$2,850.00	\$1,500.00
- 5 Year Plan	LNVX5	\$2,500.00	\$1,500.00
- Monthly Extension	LNVXM	\$3,800.00	None

(2) Channel Mileage

Mileage Bands	<u>USOC</u>	Monthly Rates <u>Fixed</u>	Monthly Rates <u>Per Mile</u>
- 1 Year Plan			
O	1L5X1	None	None
Over 0	1L5X1	\$250.00	\$125.00
- 2 Year Plan			
O	1L5X2	None	None
Over 0	1L5X2	\$225.00	\$115.00
- 3 Year Plan			
O	1L5X3	None	None
Over 0	1L5X3	\$200.00	\$100.00
- 5 Year Plan			
O	1L5X5	None	None
Over 0	1L5X5	\$100.00	\$75.00
- Monthly Extension			
O	1L5XX	None	None
Over 0	1L5XX	\$250.00	\$125.00

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 15.

2. GIGAMAN® SERVICE (cont'd)

/1/

F. RATES AND CHARGES (cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(3) Optional Features			
a. Channel Termination Diversity (Local Channel Diversity)			
- 1 Year Plan	CPAL1	\$750.00	None
- 2 Year Plan	CPAL2	750.00	None
- 3 Year Plan	CPAL3	750.00	None
- 5 Year Plan	CPAL5	750.00	None
- Monthly Extension	CPALP	750.00	None
b. Inter-Wire Center Diversity			
- 1 Year Plan	CPAT1	500.00	None
- 2 Year Plan	CPAT2	500.00	None
- 3 Year Plan	CPAT3	500.00	None
- 5 Year Plan	CPAT5	500.00	None
- Monthly Extension	CPATP	500.00	None

/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 16.

2. GIGAMAN® SERVICE (cont'd)

/2/

F. RATES AND CHARGES (cont'd)

	<u>USOC</u>	Monthly <u>Rate</u>	Nonrecurring <u>Charge</u>
(3) Optional Features (cont'd)			
c. Repeater ^{/1/}			
- per GigaMAN Service arranged			
- 1 Year Plan	VU4X1	\$2,400.00	None
- 2 Year Plan	VU4X2	1,700.00	None
- 3 Year Plan	VU4X3	1,150.00	None
- 5 Year Plan	VU4X5	850.00	None
- Monthly Extension	VU4XP	2,500.00	None
d. Equipment Only Protection			
- per terminating end			
- 1 Year Plan	CPAE1	ICB	ICB
- 2 Year Plan	CPAE2	ICB	ICB
- 3 Year Plan	CPAE3	ICB	ICB
- 5 Year Plan	CPAE5	ICB	ICB
- Monthly Extension	CPAEP	ICB	ICB
e. Equipment Plus Channel Termination Path Protection			
- per terminating end			
- 1 Year Plan	CPAG1	ICB	ICB
- 2 Year Plan	CPAG2	ICB	ICB
- 3 Year Plan	CPAG3	ICB	ICB
- 5 Year Plan	CPAG5	ICB	ICB
- Monthly Extension	CPAGP	ICB	ICB
f. Inter-Wire Center Path Protection			
- per interoffice segment			
- 1 Year Plan	CPAH1	ICB	ICB
- 2 Year Plan	CPAH2	ICB	ICB
- 3 Year Plan	CPAH3	ICB	ICB
- 5 Year Plan	CPAH5	ICB	ICB
- Monthly Extension	CPAHP	ICB	ICB

/2/

/1/ Applies to additional Repeaters required to provision the service. Does not apply to the first Repeater designed with the service. /2/

/2/ Material formerly appeared in Part 15, Section 4, Sheet 17. /2/

2. GIGAMAN® SERVICE (cont'd)

/1/

F. RATES AND CHARGES (cont'd)

	<u>USOC</u>	Monthly <u>Rate</u>	Nonrecurring <u>Charge</u>
(3) Optional Features (cont'd)			
g. Power Protection			
- per customer premises			
- 1 Year Plan	VBBG1	ICB	ICB
- 2 Year Plan	VBBG2	ICB	ICB
- 3 Year Plan	VBBG3	ICB	ICB
- 5 Year Plan	VBBG5	ICB	ICB
- Monthly Extension	VBBGP	ICB	ICB

G. Migration to AT&T Dedicated Ethernet

Customers subscribing to GigaMAN Service may migrate to AT&T Dedicated Ethernet provided by the Company without incurring Termination Charges, subject to the following conditions:

- The new AT&T Dedicated Ethernet and the existing GigaMAN Service must be billed to the same customer of record at the same customer locations.
- The customer's existing service must have been in place for at least 12 months.
- The minimum term for the new service must be at least 12 months and must be equal to or greater than the number of months remaining in the customer's existing Term Payment Plan (TPP) term.
- The speed (capacity/bandwidth) of the new service must be equal to or greater than that of the existing service.
- The customer must issue a disconnect order for the replaced GigaMAN Service to be effective within 90 days after the AT&T Dedicated Ethernet installation date. The disconnect and new orders must be coordinated through the Company.
- If overlapping service is required, the period will be limited to not more than 90 days and billing will apply to both services during the time both services are available.

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 18.

3. DECAMAN® SERVICE

/1/

GENERAL

/1/

Effective September 30, 2017, DecaMAN Service will no longer be available for purchase by new or existing customers. The Company will no longer accept orders for adds, moves, changes or new term plans for DecaMAN Service, and existing term plans may not be renewed, converted or extended. Following the expiration of a customer's existing DecaMAN term agreement, service will be provided on a month-to-month basis at the applicable monthly extension rates until the service is discontinued.

(N)

(N)

Additional terms and conditions applicable to Special Access Services may be found in Part 2, Section 2. All of these terms and conditions are applicable to the provisions of service from this Guidebook, unless listed as an exception following:

/1/

- Alternate Wire Center Diversity is not available
- Equipment Plus Alternate Wire Center Path Protection is not available

All rates and charges may be adjusted at a later date.

DecaMAN Service is available at the listed rates in this Guidebook where facilities and operating conditions permit. Where facilities can only be provided as a Special Construction offering, special construction charges as set forth in Part 2, Section 5, on an Individual Case Basis (ICB), will apply.

/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 19.

3. DECAMAN® SERVICE (cont'd)

/1/

A. SERVICE DESCRIPTION

DecaMAN Service is an intraLATA, dedicated high capacity service limited to the transport of data signals between customer locations. DecaMAN provides for the transmission of data at a discrete bit rate of 10 Gbps in Ethernet format (10 Gigabit Ethernet IEEE 802.3ae). DecaMAN is available in a point-to-point (node-to-node) configuration. DecaMAN is a fiber-based transport service that enables LAN PHY and WAN PHY connectivity between customer LANs, MANs and WANs within the same LATA.

DecaMAN Service can be used to seamlessly extend customer local area networks to off-site locations such as data centers, storage locations or satellite office locations within the same metro area. Applications that could be used with DecaMAN Service include LAN-to-LAN connectivity, CAD/CAM file transfer, telemedicine and business continuity transport.

The 802.3ae 10 GigE standard defines two OSI Layer 1 Physical ("PHY") specifications:

WAN PHY	provides a carrier-grade interface capability at a discrete bit rate of 9.95 Gbps (physical layer rate), allowing customers to transport data signals over a SONET infrastructure
LAN PHY	provides a carrier-grade interface capability at a discrete bit rate of 10.3125 Gbps (physical layer rate), allowing customers to interconnect Ethernet LANs

DecaMAN is provisioned over dedicated fiber-optic channels, which may include Wave Division Multiplexing in all or part of the network. Each DecaMAN Service provides dedicated bandwidth to the customer. All DecaMAN Services traverse through a Company Central Office gateway that serves to regenerate the DecaMAN signal and provides the Company with in-band monitoring and maintenance capability. Network Terminating Equipment (NTE) may be required on customer premises, at the discretion of the Company, based on technical design criteria.

/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 20.

3. DECAMAN® SERVICE (cont'd)

/1/

B. TERMS AND CONDITIONS

- (1) The customer provided equipment (CPE) must deliver the data signal for the DecaMAN transport within the industry specification for the subscribed data service.
- (2) DecaMAN provides physical layer transport only. The Company assumes no responsibility for the through transmission of signals generated by the customer's CPE, for the quality of or defects in such transmission, for the reception of signals by the customer's CPE, or address signaling to the extent addressing is performed by the customer's CPE. Error detection and correction of data generated by the customer's CPE is the customer's responsibility.
- (3) DecaMAN is designed to provide connectivity at the discrete bit rate of 9.95 Gbps physical layer rate (WAN PHY) or 10.3125 Gbps physical layer rate (LAN PHY). The service is considered interrupted when the customer reports to the Company and the Company confirms that continuity has been lost.
- (4) DecaMAN is available on one, two, three or five year Term Pricing Plan (TPP) offerings. The minimum period for DecaMAN service is 12 months.
- (5) Out of service adjustments for credit allowances for DecaMAN are set forth in Part 2, Section 2 (see 2.3.5.4).
- (6) DecaMAN is not available in a meet-point billing arrangement involving other Carriers.
- (7) Regulations for moves of a DecaMAN service and conversion from WAN to LAN PHY (or vice versa) are set forth in F., following.
- (8) DecaMAN Service can be distance-limited, based on circuit configuration and signal loss parameters, as determined by the Company. One repeater (signal regenerator) is included in all DecaMAN Service designs. Additional repeaters may be used to extend the transmission of DecaMAN Service, where technically feasible. See Repeater under Standard Features and Rate Regulations following for further definition and charge application.
- (9) DecaMAN Service is provided at the option of the Company where facilities permit. Where facilities and/or operating conditions do not permit, Special Construction charges, as set forth in Part 2, Section 5, shall apply.

/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 21.

3. DECAMAN® SERVICE (cont'd)

/1/

C. STANDARD FEATURESLocal Distribution Channel

Defined as the channel between the customer's premises and the serving wire center that provides service to the customer's premises.

Interoffice Channel Mileage (ICM)

Defined as the component of the service between the serving wire centers, consisting of a fixed charge and a per mile charge.

Repeater

A repeater (circuit regenerator) will be used to extend the transmission of DecaMAN Service. The Company will determine when repeaters are necessary. In addition, the first repeater in a multi-repeater circuit will be used for service alarming and monitoring purposes.

D. OPTIONAL FEATURES

(1) Diversity Options

The following options are available with Diversity:

- Local Channel Diversity
- Alternate Wire Center Diversity
- Inter-Wire Center Diversity

End-to-end diversity can be achieved by coupling Alternate Wire Center Diversity with Inter-Wire Center Diversity, in those instances where each end of a DecaMAN circuit is served out of different serving wire centers.

/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 22.

3. DECAMAN® SERVICE (cont'd)

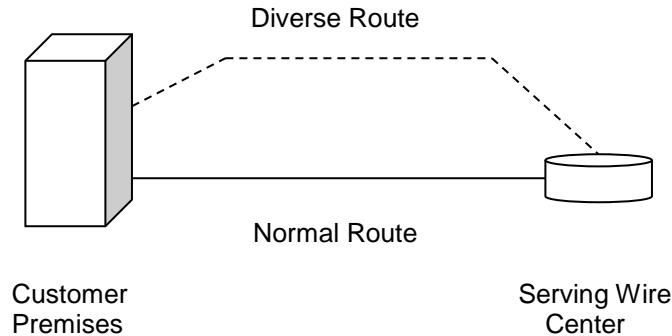
/1/

D. OPTIONAL FEATURES (cont'd)

(1) Diversity Options (cont'd)

a. Local Channel Diversity

Local Channel Diversity provides for a transmission path between a designated customer premises and the standard serving wire center (SWC) that is diverse from the normal/standard transmission path. Local Channel Diversity requires two eligible services purchased by (or for the benefit of) the same customer. The Company will determine which services are eligible based on technical or operational limitations. With this arrangement, one or more local distribution channels will be provisioned over the standard route and one or more local distribution channels will be provisioned over a diverse route. Local Channel Diversity does not provide for full diversity; it only allows for diversity from the splice point closest to the customer's property line to the SWC. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premises, at the customer's expense.



/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 23.

3. DECAMAN® SERVICE (cont'd)

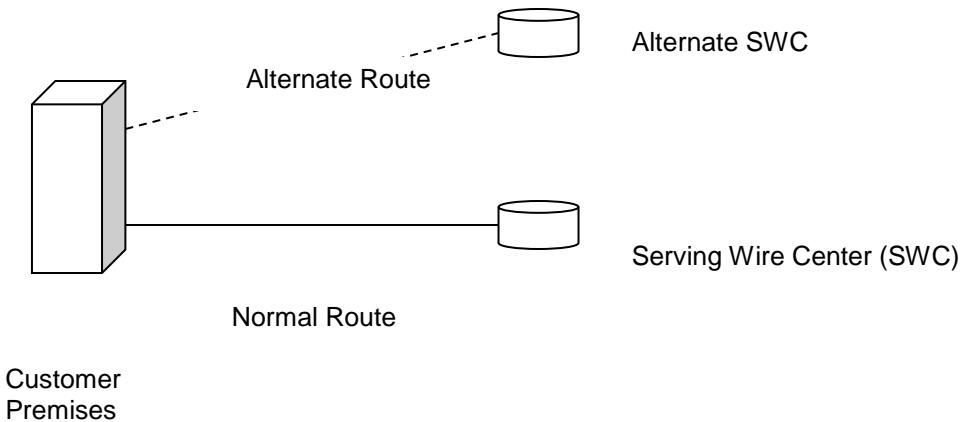
/1/

D. OPTIONAL FEATURES (cont'd)

(1) Diversity Options (cont'd)

b. Alternate Wire Center Diversity

Alternate Wire Center Diversity is for the local loop only. It provides a local channel transmission path for DecaMAN service between the customer's designated premises and a wire center that is not the normal (or standard) serving wire center. The Company will choose the alternate wire center closest to the customer's designated premises that is capable of providing DecaMAN Service over the alternate route. Alternate Wire Center Diversity does not require the purchase of two DecaMAN Services by (or for the benefit of) the same customer, nor does it require the customer to have an existing DecaMAN circuit operating over the normal (or standard) route to the normal (or standard) serving wire center. With this arrangement, one or more local distribution channels will be provisioned over the alternate route. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premises, at the customer's expense.



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/1/ Material formerly appeared in Part 15, Section 4, Sheet 24.

3. DECAMAN® SERVICE (cont'd)

/1/

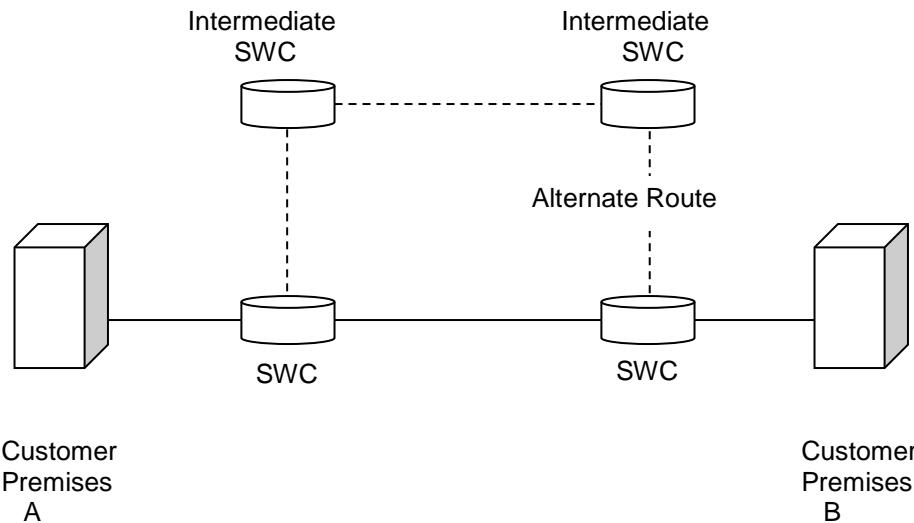
D. OPTIONAL FEATURES (cont'd)

(1) Diversity Options (cont'd)

c. Inter-Wire Center Diversity

Inter-Wire Center Diversity arrangements presume that each end of a DecaMAN local distribution channel is served out of a different serving wire center (SWC). This arrangement provides a transmission path for DecaMAN local distribution channels between the customer's designated SWC and the serving wire center at the distant end of the circuit, over a transmission path that is separate from the standard transmission path between the two wire centers. Interoffice mileage will be calculated between the intermediate serving wire centers along the circuit path of the diversely routed DecaMAN Service. Inter-Wire Center Diversity requires two eligible services purchased by (or for the benefit of) the same customer. The Company will determine which services are eligible based on technical or operational limitations.

Inter-wire center diversity does not provide for full diversity; it only offers interoffice diversity. If a customer desires full diversity, Alternate Wire Center Diversity must be implemented along with Inter-Wire Center Diversity. Additionally, arrangements must be made for constructing dual entrance facilities at the customer's premises, at the customer's expense.



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/1/ Material formerly appeared in Part 15, Section 4, Sheet 25.

3. DECAMAN® SERVICE (cont'd)

/1/

D. OPTIONAL FEATURES (cont'd)**(2) Protection Options**

The following options are available for Protection:

- Equipment Only Protection
- Equipment Plus Fiber Path Protection, with ...
 - Alternate Wire Center Path Protection, or
 - Local Channel Path Protection
- Inter-Wire Center Path Protection
- Power Protection

Protection Options provide additional levels of reliability to DecaMAN Service. All Protection Options utilize NTE at the customer's premises. There are multiple options for Protection at each end of a two point circuit. The options at each end do not need to be the same, but both ends must include some form of Protection for any to be offered. A DecaMAN circuit cannot include Protection at only one end (excluding Power Protection which can be at just one end, or both ends, of the circuit).

a. Equipment Only Protection

Equipment Only Protection offers a network design where one DecaMAN signal will be routed down two different fiber pairs that co-exist in the same cable and conduit structure, and terminate at the customer's premises in the same device (but into separate and distinct modules). Protection switching will occur between the two modules if necessary. Should one fiber pair or network element become defective, service will be maintained through 50 millisecond protection switching within the network terminating equipment (NTE) at the customer's demarcation point. If both fiber pairs are cut, an Out-Of-Service condition will result. This form of protection can only be ordered per loop (per end) for each circuit the customer wishes to protect.

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 26.

3. DECAMAN® SERVICE (cont'd)

/1/

D. OPTIONAL FEATURES (cont'd)

(2) Protection Options (cont'd)

b. Equipment Plus Fiber Path Protection

Equipment Plus Fiber Path Protection offers varying degrees of path protection for each terminating end of the circuit. For circuits that are served by different wire centers, Equipment Plus Fiber Path Protection may be combined with Inter-Wire Center Path Protection, to ensure a fully-protected circuit.

Equipment Plus Fiber Path Protection, with ...

Alternate Wire Center Path Protection

One DecaMAN signal will be routed over one fiber pair of the protected circuit from the customer's premises to the normal serving wire center, and a duplicate DecaMAN signal will be routed over a diversely routed fiber pair to the Alternate Wire Center selected by the Company. If any location between the fiber paths is closer than 10 feet, the location or locations will be disclosed to the customer. The customer will determine whether to accept the engineered path, or agree to pay Special Construction Charges to have a completely diverse route constructed in those instances where there is not a minimum separation of 10 feet between paths. The customer can also select Equipment Only Protection for an inter-office segment where facilities are not available. This option can be selected for one or both terminating ends. If an equipment failure or fiber cable cut occurs in a segment of the circuit that has this form of protection, the circuit will be switched to the alternate path in 50 milliseconds or less. If a customer desires full path diversity, arrangements must be made for constructing dual entrance facilities into the customer's premises, at the customer's expense.

Local Channel Path Protection

The two fiber pairs of the protected service will be routed diversely to the normal serving wire center. If any location between the fiber paths is closer than 10 feet, the location or locations will be disclosed to the customer. The customer will determine whether to accept the engineered path, or agree to pay Special Construction Charges to have a completely diverse route constructed. This option can be selected for one or both terminating ends. If an equipment failure or fiber cable cut occurs in a segment of the circuit that has this form of protection, the circuit will be switched to the alternate path in 50 milliseconds or less. If a customer desires full path diversity, arrangements must be made for constructing dual entrance facilities into the customer's premises, at the customer's expense.

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 27.

3. DECAMAN® SERVICE (cont'd)

/1/

D. OPTIONAL FEATURES (cont'd)

(2) Protection Options (cont'd)

c. Inter-Wire Center Path Protection

Each fiber pair is routed through different Central Offices between the two serving wire centers, or between the standard serving wire center and an alternate serving wire center. Inter-Wire Center Protection begins at the first manhole out of the Central Office. If only the two serving wire centers are involved, the two fiber pairs will be routed down two fiber paths that are separated by at least 10 feet. If any location between the fiber paths is closer than 10 feet, the location or locations will be disclosed to the customer. The customer will determine whether to accept the engineered path, or agree to pay Special Construction Charges to have a completely diverse route constructed. If an equipment failure or fiber cable cut occurs on one of the inter-office routes, the circuit will be switched to the alternate path in 50 milliseconds or less. Interoffice mileage will be calculated between the intermediate serving wire centers along the circuit paths of both protected fiber pairs.

d. Power Protection

Power Protection provides customers with battery back-up for up to eight (8) hours to maintain DecaMAN equipment in case of a power failure. Power Protection is provided on a per rack or cabinet basis, and customers in a multi-tenant building will require separate equipment and bays dedicated to each customer. Power Protection is not available for installations using a wall mounted cabinet. Requests for Power Protection are subject to equipment availability and compatibility. Upon receipt of a customer request for Power Protection, the Company will determine the availability, design and engineering requirements for Power Protection, and the appropriate number of service element charges to apply. The addition of Power Protection to existing DecaMAN Service will result in a temporary service interruption.

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 28.

3. DECAMAN® SERVICE (cont'd)

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E. TECHNICAL REFERENCES

DecaMAN standards are defined in IEEE Std 802.3ae™-2002 (Amendment to IEEE Std 802.3-2002): Media Access Control (MAC) Parameters, Physical Layers, and Management Parameters for 10 Gbps Operation.

The customer interface to DecaMAN Service is as specified in:

<u>Subject</u>	<u>Technical Reference</u>
SBC Customer Interface Standards for 100 Mbps and Higher	SBC-TP-76412
Ethernet suite standards for D5 10GBASE-LR and D5 10GBASE-LW	IEEE 802.3ae
Network Performance Parameters for Dedicated Digital Services – Definitions and Measurements	ANSI T1.503-2002

The Technical References can be obtained from:

APEx Support Team
734-523-7348

The ANSI publication can be obtained from:

Alliance for Telecommunications Industry Solutions
1200 G. Street, NW Suite 500
Washington, DC 20005

The IEEE publication can be obtained from:

<http://standards.ieee.org/catalog/olis/lanman.html>

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 29.

3. DECAMAN® SERVICE (cont'd)

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F. RATE TERMS**(1) Term Pricing Plan****a. General Information**

DecaMAN Service is offered under a 1, 2, 3 or 5 year Term Pricing Plan (TPP). For customers that subscribe to a 1, 2, 3 or 5 year TPP, the monthly rates in effect at the time the service is installed will be in effect. If the Company initiates rate changes resulting in a decrease of rates for an existing service with a 1, 2, 3 or 5 year fixed service period, those rate changes will be passed along to the customer. Rate changes resulting in an increase of rates for an existing service will not exceed the original rate for that selected service period unless mandated by the California Public Utilities Commission.

b. Renewal of Term Pricing Plan

At the end of a Term Pricing Plan, the customer may renew with a written notice of intent to renew no later than 90 days prior to its expiration, for any TPP in effect without incurring new nonrecurring charges.

If the customer elects not to renew the TPP or does not notify the Company of its intent to renew the TPP, the service will automatically be billed under the Monthly Extension rates in effect at the time the TPP expires until the customer cancels or renews the service with a new TPP term. Subsequently, customers under the Monthly Extension rates may convert their existing service to either a 1, 2, 3 or 5 year TPP. The customer will not be assessed any associated nonrecurring charges as long as the physical serving arrangement does not change.

Monthly Extensions are not available to new service.

c. Change of Term Pricing Plan

At any time a customer may change an existing TPP to a new TPP only when the new TPP payment period is longer than the remaining period currently in effect, without any Termination Liability Charges or nonrecurring charges applying as long as all other aspects of the service and facilities remain unchanged. The new TPP begins on the service order completion date and is treated as a new TPP period.

Customers may change to a shorter TPP by paying the associated Termination Liability Charges with the current TPP. The rates that will apply will be the current rates in effect for the TPP ordered on the date of conversion, however, no new nonrecurring charges apply as long as all other aspects of the service and facilities remain unchanged.

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 30.

3. DECAMAN® SERVICE (cont'd)

/1/

F. RATE TERMS (cont'd)**(1) Term Pricing Plan (cont'd)****d. Other Changes to Term Pricing Plans**

Any change to a TPP arrangement not otherwise permitted shall constitute a discontinuance of the existing service and all applicable Termination Liability Charges shall apply. The new service will be subject to all applicable rates and charges (e.g., nonrecurring charges, recurring and termination) in effect on the date of the service change.

e. Termination Liability Charges

Termination Liability Charges will apply to service terminated prior to the contracted period (excluding those terminated as a result of renegotiations) and shall be calculated as follows:

- Any unpaid Special Construction or nonrecurring charges (excluding any waived charges); plus
- Fifty percent (50%) of all recurring charges for the remaining months of the customer's term

(2) Interoffice Channel Mileage

Interoffice channel mileage is calculated using the V and H coordinate method. Interoffice Channel Mileage charges are applicable on both paths of the DecaMAN Service when any of the Diversity or Protection Options are ordered.

(3) Repeater

Repeaters (circuit regenerators) will be located in Company wire centers as required. A monthly charge will be associated with each repeater network element, except for the first repeater in a circuit path (as the first repeater is also used for service alarming and monitoring purposes).

Additional repeaters may be required on the diverse or alternately routed path when Diversity or Protection options are ordered by the customer. The need for repeaters on the diverse or protected path will be determined by the Company. Additional charges will apply.

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 31.

3. DECAMAN® SERVICE (cont'd)

/1/

F. RATE TERMS (cont'd)**(4) Diversity and Protection Options**

Diversity and Protection Options are available where facilities exist. If appropriate facilities do not exist, Special Construction charges may apply. In addition to charges for the various Diversity and Protection Options, normal charges for the Local Distribution Channel and Interoffice Channel Mileage will apply.

Additional repeaters may be required on the diverse or alternately routed path when Diversity or Protection options are ordered by the customer. The need for repeaters on the diverse or protected path will be determined by the Company. Additional charges will apply.

Interoffice Channel Mileage charges are applicable on both paths of the DecaMAN Service when any of the Diversity or Protection Options are ordered.

(5) Protection Options Changes

If Protection Options are later added to an existing DecaMAN circuit, a temporary service interruption will result as the new protected circuit must be re-designed and re-installed. This installation must occur during an agreed-upon maintenance window between a designated customer representative and the Company. The customer will be responsible for providing adequate floor space, as determined by the Company, to accommodate additional equipment bays and related power protection equipment (such as batteries).

Termination Liability Charges for the existing circuit will not apply, given the following conditions are met:

- The customer must issue a disconnect order for the existing circuit and place a service order for the newly protected circuit. Standard nonrecurring charges to install the newly protected DecaMAN Service will apply. (The conditions described here do not apply to Power Protection added to an existing DecaMAN circuit).
- Negotiated down time will apply, as the new circuit will need to be designed and installed.
- The term of the new contract must be equal to or greater than the remaining time left on the existing DecaMAN contract. (The conditions described here do not apply to Power Protection added to an existing DecaMAN circuit).
- Addition of Protection Options are contingent on availability of equipment and fiber facilities from premises to premises. Other Special Construction charges, as necessary, may apply.

/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 32.

3. DECAMAN® SERVICE (cont'd)

/1/

F. RATE TERMS (cont'd)**(6) LAN PHY and WAN PHY Conversions**

Customers will be permitted to convert DecaMAN Service from a WAN PHY to LAN PHY interface, or vice versa, without incurring Termination Charges, given the following conditions are met:

- The customer must issue a disconnect order for the existing interface and place a new service order for DecaMAN Service using the new interface. Termination Liability Charges for the existing interface will be waived. Standard nonrecurring charges to install DecaMAN Service as a new circuit (using the new interface chosen) will apply.
- Negotiated down time will apply, as the new circuit will need to be designed and installed.
- The term of the new contract must be equal to or greater than the remaining time left on the existing DecaMAN contract.
- Conversions are contingent on availability of equipment, and a determination by the Company that such conversion is technically feasible. Other Special Construction charges, as necessary, may apply.

(7) Moves

Customers will be permitted to move one end of a DecaMAN Service to another location, without incurring Termination Charges, given the following conditions are met:

- The customer must issue a disconnect order for the existing location and place a new service order for DecaMAN Service at the new location. Termination Charges for the existing location will be waived. Standard nonrecurring charges to install DecaMAN Service as a new circuit will apply.
- Negotiated down time will apply, as the new circuit will need to be designed and installed.
- The term of the new contract must be equal to or greater than the remaining time left on the existing DecaMAN contract.
- The existing DecaMAN Service must have been in service for a minimum period of 12 months for a 2-year contract, 15 months for a 3-year contract or 18 months for a 5-year contract. Existing DecaMAN Service with 1-year contracts will not be eligible for this Moves option.
- Moves are contingent on availability of fiber from premises to premises. Other Special Construction charges, as necessary, may apply.

/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 33.

3. DECAMAN® SERVICE (cont'd)

/1/

F. RATE TERMS (cont'd)**(8) Upgrades**

Customers will be permitted to upgrade to a higher-speed service provided by the Company, without incurring Termination Liability Charges, given the following conditions are met:

- an upgrade is considered an increase in speed or capacity when comparing DecaMAN Service to the new service.
- the customer must issue a disconnect order for the existing DecaMAN Service and place a service order for the new, higher-speed service, such that there is no more than 90 days overlap in service.
- the same customer locations must be utilized for the new, higher-speed service.
- the expiration date for the new, higher-speed service is beyond the end of the original TPP term associated with the existing DecaMAN Service.
- the existing DecaMAN Service must have been in service for a minimum period of 12 months for a 2-year contract, 15 months for a 3-year contract or 18 months for a 5-year contract. Existing DecaMAN Service with 1-year contracts will not be eligible for this Upgrade option.

(9) Migration to AT&T Dedicated Ethernet

(C)

Customers subscribing to DecaMAN Service may migrate to AT&T Dedicated Ethernet provided by the Company without incurring Termination Charges, subject to the following conditions:

- The new AT&T Dedicated Ethernet and the existing DecaMAN Service must be billed to the same customer of record at the same customer locations.
- The customer's existing service must have been in place for at least 12 months.
- The minimum term for the new service must be at least 12 months and must be equal to or greater than the number of months remaining in the customer's existing Term Payment Plan (TPP) term.
- The speed (capacity/bandwidth) of the new service must be equal to or greater than that of the existing service.
- The customer must issue a disconnect order for the replaced DecaMAN Service to be effective within 90 days after the AT&T Dedicated Ethernet installation date. The disconnect and new orders must be coordinated through the Company.
- If overlapping service is required, the period will be limited to not more than 90 days and billing will apply to both services during the time both services are available.

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 34.

3. DECAMAN® SERVICE (cont'd)

/3/

G. RATES AND CHARGES

(1) Standard Features

	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
a. Local Distribution Channel			
LAN-PHY			
1 Year Plan	TMECS/1RSTX	ICB	ICB
2 Year Plan	TMECS/1RSTX	ICB	ICB
3 Year Plan	TMECS/1RSTX	ICB	ICB ^{1/}
5 Year Plan	TMECS/1RSTX	ICB	ICB ^{1/}
Monthly Extension	TMECS/1RSTX	ICB	ICB
WAN-PHY			
1 Year Plan	TMECS/1RSTX	ICB	ICB
2 Year Plan	TMECS/1RSTX	ICB	ICB
3 Year Plan	TMECS/1RSTX	ICB	ICB ^{1/}
5 Year Plan	TMECS/1RSTX	ICB	ICB ^{1/}
Monthly Extension	TMECS/1RSTX	ICB	ICB
b. Interoffice Channel Mileage		Monthly Rates	
		<u>Fixed</u>	<u>Per Mile</u>
1 Year Plan	1L5XX/JZ68S	ICB	ICB
2 Year Plan	1L5XX/JZ68S	ICB	ICB
3 Year Plan	1L5XX/JZ68S	ICB	ICB
5 Year Plan	1L5XX/JZ68S	ICB	ICB
Monthly Extension	1L5XX/JZ68S	ICB	ICB
c. Repeater ^{2/}		Monthly Rate	
- each			<u>Nonrecurring Charge</u>
1 Year Plan	VU4/VU4	ICB	ICB
2 Year Plan	VU4/VU4	ICB	ICB
3 Year Plan	VU4/VU4	ICB	ICB
5 Year Plan	VU4/VU4	ICB	ICB
Monthly Extension	VU4/VU4	ICB	ICB

/3/

/1/ Nonrecurring charges are not applicable for new service installed under the 3 or 5 year TPP.

/3/

/2/ Applies to additional Repeaters required to provision the service. Does not apply to the first Repeater designed with the service.

/3/

/3/ Material formerly appeared in Part 15, Section 4, Sheet 35.

3. DECAMAN® SERVICE (cont'd)

/1/

G. RATES AND CHARGES (cont'd)

(2) Optional Features

	<u>USOC</u> <u>CABS/CRIS</u>	<u>Monthly</u> <u>Rate</u>	<u>Nonrecurring</u> <u>Charge</u>
a. Diversity Options			
Local Channel Diversity			
- per terminating end			
1 Year Plan	CPALX/CPALX	ICB	ICB
2 Year Plan	CPALX/CPALX	ICB	ICB
3 Year Plan	CPALX/CPALX	ICB	ICB
5 Year Plan	CPALX/CPALX	ICB	ICB
Monthly Extension	CPALX/CPALX	ICB	ICB
Inter-Wire Center Diversity			
- per circuit			
1 Year Plan	CPATX/CPATX	ICB	ICB
2 Year Plan	CPATX/CPATX	ICB	ICB
3 Year Plan	CPATX/CPATX	ICB	ICB
5 Year Plan	CPATX/CPATX	ICB	ICB
Monthly Extension	CPATX/CPATX	ICB	ICB
b. Protection Options			
Equipment Only Protection			
- per terminating end			
1 Year Plan	CPAEX/CPAEX	ICB	ICB
2 Year Plan	CPAEX/CPAEX	ICB	ICB
3 Year Plan	CPAEX/CPAEX	ICB	ICB
5 Year Plan	CPAEX/CPAEX	ICB	ICB
Monthly Extension	CPAEX/CPAEX	ICB	ICB
Equipment Plus Channel			
Termination Path Protection			
- per terminating end			
1 Year Plan	CPAGX/CPAGX	ICB	ICB
2 Year Plan	CPAGX/CPAGX	ICB	ICB
3 Year Plan	CPAGX/CPAGX	ICB	ICB
5 Year Plan	CPAGX/CPAGX	ICB	ICB
Monthly Extension	CPAGX/CPAGX	ICB	ICB

/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 36.

3. DECAMAN® SERVICE (cont'd)

/1/

G. RATES AND CHARGES (cont'd)

(2) Optional Features (cont'd)

	<u>USOC</u> <u>CABS/CRIS</u>	<u>Monthly</u> <u>Rate</u>	<u>Nonrecurring</u> <u>Charge</u>
b. Protection Options (cont'd)			
Inter-Wire Center Path Protection			
- per interoffice segment			
1 Year Plan	CPAHX/CPAHX	ICB	ICB
2 Year Plan	CPAHX/CPAHX	ICB	ICB
3 Year Plan	CPAHX/CPAHX	ICB	ICB
5 Year Plan	CPAHX/CPAHX	ICB	ICB
Monthly Extension	CPAHX/CPAHX	ICB	ICB
Power Protection			
- per customer premises			
1 Year Plan	VBBGX/VBBGX	ICB	ICB
2 Year Plan	VBBGX/VBBGX	ICB	ICB
3 Year Plan	VBBGX/VBBGX	ICB	ICB
5 Year Plan	VBBGX/VBBGX	ICB	ICB
Monthly Extension	VBBGX/VBBGX	ICB	ICB

/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 37.

4. ADVANCED DIGITAL NETWORK

/2/(C)

A. OPTIONAL FEATURES AND FUNCTIONS

(C)

1. Network Reconfiguration Service^{/1}

/2/(C)

Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers, and NRS service agreements may no longer be renewed. Effective July 31, 2022, the Company will no longer accept new requests for physical changes to existing service arrangements including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses.

(N)

Network Reconfiguration Service will allow the customer or AT&T technician to make changes in the individual circuit segments of their network. These changes can be mapped and stored, and executed automatically based on time of day, or the customer can make on demand changes based on disaster recovery or traffic smoothing requirements.

(N)

There are two alternatives that will allow a customer to access the circuits in their Network Reconfiguration Service database; (1) Client RAS or (2) Client VPN.

/2/

- a. Client RAS (Remote Administrator Software) is a dial-up configuration. Using a toll free 8XX number and a SecureID card, the NRS customer is allowed partitioned access to their NR database for the purpose of making changes within their ADN network.
- b. Client VPN (Virtual Private Networking) access can be granted to a customer who has dedicated Internet access. Utilizing specific software provided by the Company in addition to the SecureID card, the customer can access their NRS database for the purpose of making changes within their ADN network.

One rate element shall apply per DS0, DS1 or DS3 channel termination in the Digital Cross Connect machine.

/2/

/1/ Applicable to 1.544 Mbps service set forth in Part 15, Section 3, Paragraph 1. High Capacity Service.

/2/(C)

/2/ Material formerly appeared in Part 15, Section 3, Sheet 36.

4. ADVANCED DIGITAL NETWORK (cont'd)

/2/(C)

A. OPTIONAL FEATURES AND FUNCTIONS (cont'd)

(C)

1. Network Reconfiguration Service^{/1/} (cont'd)

(C)

In addition, the customer must separately order the transport service DS0, DS1, DS3 required to connect the customer designated premises to the Port location at a Company Serving Wire Center.

The customers may order terminations that terminate at the Digital Cross-Connect Switch as part of their overall end to end service.

All terminations on a circuit configuration for the customer's network to be capable of reconfiguration must be similarly equipped.

In each of the above alternatives the customer will supply the compatible Network Channel Terminating Equipment designated in Technical Reference PUB L-780036 at their premises. The Company will provide the Network Channel Terminating Equipment at the Company site.

The customer is responsible for assigning and maintaining a record of all reconfigurations and access. The customer also agrees to provide the Company with a central point of contact for inquiries, trouble reports and security management involving reconfiguration.

In addition to, and not limiting the other provisions contained in the Company's tariffs or Guidebooks, the Company will not be responsible for any damage, loss or harm to Advanced Digital Network customers, and/or other Company customers which results from customer and/or third party misuse, unauthorized use, abuse or error using Advanced Digital Network features and/or failure of the customer to adhere to the security policies, methods and tools associated with this product. Such policies, methods and tools will be provided by the Company to the customer.

/2/

^{/1/} Applicable to 1.544 Mbps service set forth in Part 15, Section 3, Paragraph 1. High Capacity Service.

^{/2/} (C)

^{/2/} Material formerly appeared in Part 15, Section 3, Sheet 37.

4. ADVANCED DIGITAL NETWORK (cont'd)

/1/(C)

A. OPTIONAL FEATURES AND FUNCTIONS (cont'd)

(C)

<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
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2. Rates and Charges

(C)

a. Network Reconfiguration Service

(C)

(1) Per Channel Termination

(C)

- DSO	DFOCO	\$10.00	None
- DS1	DFOCO	40.00	None

(2) Per service arrangement

(C)

- 4 DS0	DFOC4	12.50	None
- 6 DS0	DFOC6	15.00	None
- 8 DS0	DFOC8	17.50	None
- 12 DS0	DFOC1	20.00	None
- 24 DS0	DFOCO	40.00	None

(3) Network Reconfiguration Service Database

(C)

- Per Customer database	FN6DD	120.00	\$2,400.00
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(4) Network Reconfiguration Service Access Arrangement

(C)

- per Secure ID Card	RNQPA	120.00	None
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/1/

/1/ Material formerly appeared in Part 15, Section 3, Sheets 40 and 41.

5. HIGH CAPACITY SERVICE

/2/

A. OPTIONAL FEATURES AND FUNCTIONS

(C)

1. Network Reconfiguration Service^{/1/}

a. Rates and Charges

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
- per Fiber Advantage SM DS3 termination, per channel termination	CNND3	\$300.00	None

/2/

/1/ Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers. See paragraph 4.A.1.

(N)
(N)

/2/ Material formerly in Part 15, Section 3, Sheet 30.