1. RESTORATION PRIORITY CHARGE

Upon receipt of certification in conformance with Part 64, Subpart D, Appendix A of the Federal Communications Commission's Rules and Regulations which specifies the priority system for restoration of private line service, the Company will change the priority designation of a private line service. A restoration priority change charge in an amount equal to the charge specified in Part 15, Section 1, applies when the customer requests a change in the restoration priority after the service has been established or after the service has been ordered but prior to start of service. No charge applies when the restoration priority certification is provided with the order to establish the service.

Effective September 10, 1990 no further requests for Restoration Priority (RP) Service will be accepted by the Company. Existing RP customers will be converted to the Telecommunications Service Priority (TSP) System subject to the provisions set forth in 2.6.11 preceding.

RP service will expire on March 10, 1993, or when all services are converted to TSP, whichever is sooner.

2. CHANNELS

2.1 Classification and Rates

2.1.1 Basic Digital Service (BDS)

Effective March 16, 1992, no further requests for, or rearrangements of Basic Digital Service will be accepted by the Company. Existing customers who will not experience any increase in rate will be converted to Base Rate Service at no charge. For those customers Base Rate Service rates will apply. Customers who would experience a rate increase will continue to subscribe to Basic Digital Service.

A. Types and Description

Basic Digital Service (BDS) provides for the four-wire simultaneous two way transmission of digital signals at synchronous speeds of 2.4, 4.8, 9.6 or 56 Kilobits per second (Kbps).

BDS is used to connect two customer premises for digital communication between such premises, or a customer premise and central office.

B. Regulations

In addition to the regulations set forth in Part 15, Section 2, the following regulations apply to BDS.

1. The regulations specified herein are in addition to the applicable regulations specified in this Guidebook and other tariffs of this Company, except as modified in the following paragraphs:

   a. Termination Charges

      (1) When service is terminated by the customer, or by the Company for any reason for which it may terminate such service under the provisions of this Guidebook, prior to the expiration of the initial contract period, the following termination charges apply in addition to all charges due for the service which has been furnished:

         (a) Contract Period of One Month

         In the case of services for which the initial contract period is one month, the termination charge will be charges due for the unexpired portion of the one month period.

         (b) Change Speed of Service

         In the case of a change of speed from or to 2.4, 4.8 and 9.6 Kbps, termination charges do not apply. A change from 56 Kbps to 2.4, 4.8, 9.6 or vice versa constitutes a termination of contract and termination charges as specified in (a) preceding, will apply.

2. CHANNELS (cont'd)

2.1 Classification and Rates (cont'd)

2.1.1 Basic Digital Service (BDS) (cont'd)

B. Regulations (cont'd)

1. (cont'd)

a. (cont'd)

(1) (cont'd)

(c) The total amount of the nonrecurring charges may be deferred. The minimum amount that may be deferred is $1200.00. The deferred payment period must be equal to the customers VTPP payment period.

(d) Termination charges apply to all changes in the serving address of the service.

2. Availability of Service

a. BDS is available on a 24 hour per day, seven days a week basis.

b. BDS can only be provided from central offices equipped with suitable digital facilities and equipment. Where special construction of facilities is necessary, such construction will be provided at the charges specified in Part 2, Section 5 .

c. All signals generated by customer terminating equipment must meet signal and format constraints contained in Ameritech Technical Reference AM-TR-NPL-000007.

d. Suspension of service is not provided on BDS.

3. Minimum Service Period

The minimum service period is one month.

4. Channel Interface (CIs)

CIs are required for customer-provided premises equipment. The following CIs define the bit rates that are available for BDS.

CI	Bit Rate
DU-24	2.4 Kbps
DU-48	4.8 Kbps
DU-96	9.6 Kbps
DU-56	56.0 Kbps

2. CHANNELS (cont'd)

2.1 Classification and Rates (cont'd)

2.1.1 Basic Digital Service (BDS) (cont'd)

C. Rates

The following rates and charges apply for BDS service in addition to the rates and charges for the associated service.

1. One channel termination is applicable to each station connected.

2. Channel mileage is portrayed in mileage bands. There are two rates that apply for each band, i.e., a flat rate per band and a rate per mile.

3. Channel Termination

USOC		Nonrecurring Charge	Monthly Rate
1DCPX	2.4 kbps	$299.11	$59.00
1DCPX	4.8 kbps	299.11	59.00
1DCPX	9.6 kbps	299.11	59.00
1DCPX	56 kbps	398.81	95.00

4. Channel Mileage

(a) 2.4 kbps

		Monthly Rates	
USOC	Mileage Bands	Fixed	Per Mile
XUQ1X	0	$21.00/1/	None
1LNPB	0 to 4	21.00	$2.65
	5 to 8	21.00	2.65
	9 to 25	21.00	2.65
	26 to 50	21.00	2.65
	51 and over	21.00	2.65

/1/ The fixed mileage rate does not apply to zero (0) mileage band channels connected to High Capacity Transport Service.

2. CHANNELS (cont'd)

2.1 Classification and Rates (Cont'd)

2.1.1 Basic Digital Service (BDS) (Cont'd)

C. Rates (Cont'd)

4. Channel Mileage (Cont'd)

(b) 4.8 kbps

USOC	Mileage Bands	Monthly Rates Fixed	Per Mile
XUQ2X	0	$21.00/1/	None
1LNPC	0 to 4	21.00	$2.65
	5 to 8	21.00	2.65
	9 to 25	21.00	2.65
	26 to 50	21.00	2.65
	51 and over	21.00	2.65

(c) 9.6 kbps

	Mileage Bands		
XUQ3X	0	21.00/1/	None
1LNP9	0 to 4	21.00	2.65
	5 to 8	21.00	2.65
	9 to 25	21.00	2.65
	26 to 50	21.00	2.65
	51 and over	21.00	2.65

(d) 56 kbps

	Mileage Bands		
XUQ4X	0	44.00/1/	None
1LNPD	0 to 4	44.00	5.25
	5 to 8	44.00	5.25
	9 to 25	44.00	5.25
	26 to 50	44.00	5.25
	51 and over	44.00	5.25

/1/ The fixed mileage rate does not apply to zero (0) mileage band channels connected to High Capacity Transport Service.

2. CHANNELS (Cont'd)

2.2 High Capacity Transport Service

Effective March 16, 1992, no further requests for Direct High Capacity Service will be accepted by the Company. Existing customers who will not experience any increase in rate will be converted to DS1 Service at no charge. For those customers DS1 Service rates will apply. Customers who would experience a rate increase will continue to subscribe to Direct High Capacity Service.

A. General

1. High Capacity Transport Service consists of two-point digital channels and equipment which provides for simultaneous two-way isochronous transmission at a speed of 1.544 Megabits per second (Mbps). High Capacity Transport Service may be used to connect:

   a. two customer premises

   b. a customer premises and the central office

   c. between central offices for access between Centrex Services.

2. CHANNELS (Cont'd)

2.2 High Capacity Transport Service (Cont'd)

B. Regulations

1. The regulations specified herein are in addition to the applicable regulations specified in this Guidebook and other tariffs of this Company.

2. High Capacity Transport Service is offered under the Variable Term Payment Plan (VTPP) as specified in Part 2, Section 3. All conditions and regulations pertaining to the VTPP are included in Part 2, Section 3, except as modified in the following paragraphs:

   a. Termination Charges

      (1) When service is terminated by the customer, or by the Company for any reason for which it may terminate such service under the provisions of this Guidebook, prior to the expiration of the initial contract period, the following termination charges apply in addition to all charges due for the service which has been furnished:

      (a) Contract Period of One Month

      In the case of services for which the initial contract period is one month, the termination charges will be charges due for the unexpired portion of a twelve month period.

      (b) Contract Periods of Three or Five Years

      In the case of services for which the initial contract period is three or five years, the termination charges will be an amount equal to fifty per cent of the charges for the unexpired portion of such initial contract period, at the rate in effect at the time the service is discontinued.

2. CHANNELS (Cont'd)

2.2 High Capacity Transport Service (Cont'd)

B. Regulations (Cont'd)

3. Availability of Service

   a. High Capacity Transport Service can only be provided from central offices equipped for appropriate digital transmission.

   b. High Capacity Transport Service is available on channels confined to the same building or continuous property on a cost incurred basis.

4. Provision of Service

   a. High Capacity Transport Service is available only on a two-point basis.

   b. Performance Criteria

      (1) High Capacity Transport Service is designed to provide an average performance of at least 95% error-free seconds of transmission measured over a continuous 24 hour period.

5. Customer Signal Parameters

   All signals generated by customer terminal equipment must meet the signal and format constraints described in Bell System Technical Reference Publication 43801 dated November, 1982, Bell System Technical Reference Publication 41451 dated January, 1983 and in Bell System Technical Reference Publication 62411 dated September, 1983.

C. Service Functions

1. Channelization

   a. Channelization equipment will be provided by the Company at the central office. If the customer wants the channelization equipment located on his premises, the equipment must be provided by the customer.

   b. The Company will provide channelization equipment at the central office when the customer desires two-point, premises to central office or central office to central office services.

   c. Company provided central office channelization equipment provides service for up to 24 voice grade channels.

2. Channel Plug-Ins

   One channel plug-in is required for each channel termination in the channelization equipment.

2. CHANNELS (cont'd)

2.2 High Capacity Transport Service (Cont'd)

D. Rates and Charges

The following rates and charges apply for High Capacity Transport Service in addition to the rates and charges for the associated service.

1. Local channel	USOC
a. First mile or fraction thereof	1LDPX
Installation charge	$960.25
Variable term option monthly rate	
- 1 month	260.30
- 36 months	251.00
- 60 months	241.80
b. Each additional mile or fraction thereof	1LDPB
Installation charge	$233.75
Variable term option monthly rate	
- 1 month	79.50
- 36 months	76.60
- 60 months	73.80

2. Additional channel

Additional local channel rates and charges apply to the installation of each additional local channel furnished on the same occasion as the local channel, to the same customer to the same location, i.e., originating and terminating.

a. First mile or fraction thereof	1LDP2
Installation charge	$960.25
Variable term option monthly rate	
- 1 month	158.35
- 36 months	153.85
- 60 months	149.30
b. Each additional mile or fraction thereof	1LDP4
Installation charge	$233.75
Variable term option monthly rate	
- 1 month	33.05
- 36 months	32.10
- 60 months	31.20

2. CHANNELS (cont'd)

2.2 High Capacity Transport Service (cont'd)

D. Rates and Charges (cont'd)

3. Interoffice Mileage	USOC
a. First mile or fraction thereof	1LNPX
Installation charge	-
Variable term option monthly rate	
- 1 month	$80.40
- 36 months	77.60
- 60 months	74.70
b. Each additional mile or fraction thereof	1LNPR
Installation charge	-
Variable term option monthly rate	
- 1 month	$50.50
- 36 months	49.10
- 60 months	47.65
4. Channelization Equipment	VBD24
a. Basic equipment to derive up to 24 Voice grade channels per 1.544 line	
Installation charge	-
Variable term option monthly rate	
- 1 month	$266.05
- 36 months	258.50
- 60 months	250.85

2. CHANNELS (cont'd)

2.2 High Capacity Transport Service (cont'd)

D. Rates and Charges (cont'd)	USOC
4. Channelization Equipment (cont'd)	
b. Channel plug-ins	
(1) Voice plug-in, per location	
Two-wire	VV2
Installation charge	-
Variable term option monthly rate	
- 1 month	$6.40
- 36 months	6.25
- 60 months	6.05
Two-wire - off premise station	VOM
Installation charge	-
Variable term option monthly rate	
- 1 month	$6.35
- 36 months	6.20
- 60 months	6.00
Four-wire with no signaling or with E & M signaling	VV4
Installation charge	-
Variable term option monthly rate	
- 1 month	$4.45
- 36 months	4.30
- 60 months	4.20
Four-wire with SF signaling	VV4SF
Installation charge	-
Variable term option monthly rate	
- 1 month	$12.40
- 36 months	12.10
- 60 months	11.75
Four-wire with signaling	VV4DT
Installation charge	-
Variable term option monthly rate	
- 1 month	$11.15
- 36 months	10.85
- 60 months	10.50

2. CHANNELS (cont'd)

2.2 High Capacity Transport Service (cont'd)

D. Rates and Charges (Cont'd)	USOC
4. Channelization Equipment (Cont'd)	
b. Channel plug-ins (Cont'd)	
(2) Analog Data Plug-in, per location	
Four-wire	VDZ
Installation charge	-
Variable term option monthly rate	
- 1 month	$7.00
- 36 months	6.80
- 60 months	6.60
Four-wire connect through	CQV
Installation charge	-
Variable term option monthly rate	
- 1 month	$4.70
- 36 months	4.55
- 60 months	4.45

3. 128, 256 and 384 SERVICE/1/ /2/(C)

A. Description

128, 256 and 384 Service provides for the simultaneous two-way transmission of a serial, bipolar, return-to-zero, isochronous digital signal at speeds of 128, 256 and 384 Kbps. The service is available in a two-point configuration only between;

- Two customer-designated premises.
- A customer designated premise and a Company wire center where cross-connection or hubbing is performed.
- A customer designated premise and a Company wire center for termination in a DS3 or DS1/128, 256 or 384 Central Office Multiplexer, NRS system, or for connection to Optical Interconnection Service.
- Two Company offices when connecting two NRS systems via Base Rate Service, 128, 256 or 384 Service, DS1 Service, and DS3 Service channel mileage and channel mileage terminations to interconnect Base Rate Services, 128, 256 or 384 Services, DS1 Service, DS3 service channels included in the customer's database for the NRS.

B. Definitions

DS1
A service which provides for the simultaneous two-way transmission of a serial, bipolar, return-to-zero, isochronous digital signal at a terminating bit rate of 1.544 megabits per second (Mbps). Timing is provided by the Company through the Company's facilities to the customer in the receiving bit stream. /2/

/1/ Effective September 6, 2016, customers may not establish new term plans of any length for 128, 256 and 384 Service, and existing term plans may not be renewed. For existing service after any term plan expires, service will be provided only on a month-to-month basis. (N)
/2/ Material formerly appeared in Part 15, Section 3, Sheet 9.

3. 128, 256 and 384 SERVICE/1/ (cont'd)

C. Terms and Conditions

1. 128, 256 and 384 Service is provided at the option of the Company where facilities permit. If appropriate facilities are not available, *Special Construction* charges may apply.

2. Rate Zone Wire Center Assignment
   Each Company wire center has been assigned to a Rate Zone. A table listing all Rate Zone assignments can be found in Part 15, Section 1, Paragraph V.

D. Features

1. Optional Features

   Network Reconfiguration Service/2/ (C)
   128, 256 and 384 Service is available for use with Network Reconfiguration Service.

   Central Office Multiplexing and Cross Connect Services
   These optional services are available with 128, 256 and 384 Service. Refer to Central Office Multiplexing and Cross Connect Services later in this Section.

   Shared Network Arrangement
   128, 256 and 384 Service is available for connection to a host's central office multiplexer.

/1/ Effective September 6, 2016, customers may not establish new term plans of any length for 128, 256 and 384 Service, and existing term plans may not be renewed. For existing service after any term plan expires, service will be provided only on a month-to-month basis.
/2/ Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers. See Part 20, Section 15. (N) (N)

3. 128, 256 and 384 SERVICE/1/ (cont'd) /2/(C)

E. Technical References

Performance parameters for 128, 256 and 384 Service may be found in the Technical References listed below.

All signals generated by Network Channel Terminating Equipment (NCTE) must meet the signal and format constraints contained in Telcordia Technologies (formerly known as Bellcore) Publication GR-54-CORE. This document also contains the specifications for Clear Channel Capability.

Subject	Technical Reference
Service Description and Interface Requirements for Ameritech FT-1 Digital Service	AM TR-TMO-000106
High-Capacity Digital Service (1.544 Mbps) Interface Generic Requirements for End Users	GR-54-CORE (Telcordia)

APEX Support Team
(734) 523-7348

The Telcordia Publication(s) can be obtained from:

Telcordia Technologies, Inc.
8 Corporate Place, PYA 3A-184
Piscataway, New Jersey 08854-4156 /2/

/1/ Effective September 6, 2016, customers may not establish new term plans of any length for 128, 256 and 384 Service, and existing term plans may not be renewed. For existing service after any term plan expires, service will be provided only on a month-to-month basis. (N) (N)

/2/ Material formerly appeared in Part 15, Section 3, Sheet 11.

3. 128, 256 and 384 SERVICE[/1/] (cont'd) /3/(C)

F. Prices

1. Service Elements

Description/Billing Code/	Nonrecurring Charge	
Administrative Charge[/2/]		(C)
- per order		
Zone 1 /NRBA1/	$60.00	
Zone 2 /NRBA2/	60.00	
Zone 3 /NRBA3/	60.00	
Design and Central Office Connection Charge[/2/]		(C)
- per circuit		
Zone 1 /NRBD1/	144.00	
Zone 2 /NRBD2/	144.00	
Zone 3 /NRBD3/		
Customer Connection Charge[/2/]		(C)
- per termination		
Zone 1 /NRBB1/	213.00	
Zone 2 /NRBB2/	213.00	
Zone 3 /NRBB3/	240.00	/3/

/1/ Effective September 6, 2016, customers may not establish new term plans of any length for 128, 256 and 384 Service, and existing term plans may not be renewed. For existing service after any term plan expires, service will be provided only on a month-to-month basis. (N) (N)

/2/ For those customers who choose a Term Payment Plan (TPP) period of 36 months or greater in length for new installations, the Administrative Charge, Design and Central Office Connection Charge and Customer Connection Charge will not apply. However, customers requesting termination of service prior to the completion of a minimum of 36 months of a 36 month or greater TPP term will become liable for payment of Nonrecurring Charges described above /3/(C) /3/

/3/ Material formerly appeared in Part 15, Section 3, Sheet 12.

3. 128, 256 and 384 SERVICE[/1/] (cont'd) /3/(C)

F. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payments *Term Payment Plans* 12 Months	36 Months	60 Months[/2/]	Monthly	
Local Distribution Channel					(C)
- per point of termination					
Zone 1 /TZ4X1/	$265.00	$157.50	$140.00	$395.00	
Zone 2 /TZ4X2/	275.00	162.50	145.00	415.00	
Zone 3 /TZ4X3/	290.00	175.00	155.00	440.00	
Channel Mileage Termination					
- per point of termination					
Zone 1 /CZ4X1/				50.00	
Zone 2 /CZ4X2/				50.00	
Zone 3 /CZ4X3/				50.00	
Channel Mileage					
- per mile					
Zone 1 /1YZX1/				12.00	
Zone 2 /1YZX2/				12.00	
Zone 3 /1YZX3/				12.00	/3/

/1/ Effective September 6, 2016, customers may not establish new term plans of any length for 128, 256 and 384 Service, and existing term plans may not be renewed. For existing service after any term plan expires, service will be provided only on a month-to-month basis. (N) (N)

/2/ As of October 1, 2013, Term Payment Plan terms greater than 36 months are no longer available for new or renewing subscribers. /3/(C) /3/

/3/ Material formerly appeared in Part 15, Section 3, Sheet 13.

3. 128, 256 and 384 SERVICE[/1/] (cont'd) /2/(C)

F. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Nonrecurring Charge	
Optional Features and Functions		
Shared Network Arrangement		
- processing charge, per order /NRBOP/	$36.00	/2/

/1/ Effective September 6, 2016, customers may not establish new term plans of any length for 128, 256 and 384 Service, and existing term plans may not be renewed. For existing service after any term plan expires, service will be provided only on a month-to-month basis. (N) (N)

/2/ Material formerly appeared in Part 15, Section 3, Sheet 14.

3. 128, 256 and 384 SERVICE/1/ (cont'd) /3/(C)

F. Prices (cont'd)

2. Payment Plans

- Month to Month
  128, 256 and 384 Service is available on a month to month basis.

- Term Payment Plans
  128, 256 and 384 Service is available under the Term Payment Plan (TPP) whereby customers must select either a 12, 36 or 60 month/2/ period. After the selected Term Payment Plan period is satisfied, the monthly rate will apply unless a new TPP is selected. Refer to *Term Payment Plans* in Part 15, Section 1. (C)

- Single Payment Option (SPO)
  A Single Payment Option is available for this service. Refer to *Term Payment Plans - Single Payment Option* in Part 15, Section 1.

3. Termination Charges

Termination Charges will apply to service terminated prior to the contracted period. The termination charge for all TPP terms for 128, 256 and 384 Service will be calculated as described in *Term Payment Plans - Termination Charges* in Part 15, Section 1.

4. Credit Allowance

A credit allowance will be given for failure to meet the installation interval service date or for interruption of service. Refer to Credit Allowances in Part 15, Section 1 for calculating credit allowances. /3/

/1/ Effective September 6, 2016, customers may not establish new term plans of any length for 128, 256 and 384 Service, and existing term plans may not be renewed. For existing service after any term plan expires, service will be provided only on a month-to-month basis. (N) (N)

/2/ As of October 1, 2013, Term Payment Plan terms greater than 36 months are no longer available for new or renewing subscribers. /3/(C) /3/

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

4. NETWORK RECONFIGURATION SERVICE (NRS)

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.

A. Description

Network Reconfiguration Service (NRS) gives customers the ability to reconfigure individual channel segments within their networks via electronic cross-connections. These segments may consist of DS3 Service, DS1 Service, 128, 256 and 384 Service/1/ and Base Rate Service/2/. Customers may also reconfigure individual channels that are part of a reconfigurable multiplexed DS1 Service or multiplexed DS3 Service. Although NRS is focused primarily on digital services, customers may utilize NRS with analog services by ordering reconfigurable DS1's equipped with Central Office Multiplexing in addition to the NRS DS1 Terminations and then using the multiplexed DS1 for the transport of the analog services. Customer access to NRS may be made directly by the customer utilizing customer-provided terminal equipment on the customer's premises in conjunction with a dial-in line. Access is also available through a Company attendant reached by a dial-access telephone line. (C)

/1/ Effective September 6, 2016, customers may not establish new term plans of any length for 128, 256 and 384 Service, and existing term plans may not be renewed. For existing service after any term plan expires, service will be provided only on a month-to-month basis.

/2/ Effective June 30, 2021, Base Rate Service is grandfathered. See Part 20, Section 15, Sheet 141 for service availability. (N) (N)

4. NETWORK RECONFIGURATION SERVICE (cont'd) /1/ (C)

B. Definitions

Access Arrangement
Provides the interface between the customer and the NRS system. An Access Arrangement must be purchased for each concurrent customer user of the NRS system. The Company issues a SecurID card to the customer user for each Access Arrangement when Attendant Service is not utilized.

NRS Training
Provides for additional training requested by the customer beyond the training session included with the initial installation of the NRS system.

Attendant Access
Provides for reconfiguration activities to be performed by a Company attendant at the direction of the customer. The customer may request that the commands be performed on demand or at a later, scheduled time. Attendant Access cannot be purchased independently, but is available to customers that access NRS through a dial-up arrangement.

Database Modification
A customer initiated change to their network database subsequent to the initial database setup. These changes include:

- Addition or deletion of channel/facility terminations at the NRS system location.
- Addition, deletion or change in the customer's master security word.

Port Termination
Connects a local distribution channel, or channel mileage, to an NRS location allowing the connected service to be reconfigured. All services in a customer's NRS database must be terminated at an NRS system location. Only services included in a customer's NRS database may utilize the NRS termination feature. /1/

/1/ Material formerly appeared in Part 15, Section 3, Sheet 123.

4. NETWORK RECONFIGURATION SERVICE (cont'd) /1/ (C)

C. Terms and Conditions

1. NRS will be available on a continuous basis except for the performance of scheduled preventative and routine maintenance or scheduled software updates. The customer will be notified at least 24 hours in advance of any scheduled service interruptions.

2. NRS system locations are found in the National Exchange Carrier Association, Inc., Tariff F.C.C. No. 4.

3. Services that are cross-connected by the Network Reconfiguration Service will not operate properly unless they have identical technical characteristics to ensure compatibility and proper operation. NRS customers are responsible for the compatibility of the services they choose to cross-connect.

   If the Company determines that the technical characteristics of services selected for cross-connection by the customer are not compatible, they will advise the customer and give them the opportunity to change the order.

4. Network Reconfiguration Service is provided at the option of the Company where facilities permit. If appropriate facilities are not available, Special Construction charges may apply.

5. Each Company wire center has been assigned to a Rate Zone. A table listing all Rate Zone assignments can be found in Part 15, Section 1, Paragraph V. /1/

/1/ Material formerly appeared in Part 15, Section 3, Sheet 124.

4. NETWORK RECONFIGURATION SERVICE (cont'd) /1/ (C)

D. Features

1. Optional Features

NRS Training
Additional training, beyond that provided with the initial installation, is available.

Attendant Access
The customer may choose to have reconfiguration activities performed by the Company. (See *Definitions* preceding.)

Database Modification
Subsequent to the initial installation, the customer may request modification to the database. (See *Definitions* preceding.)

E. Technical References

Subject	Technical Reference
Ameritech OPTINET Reconfiguration Interface Specifications	AM-TR-TMO-000064

The Technical Reference can be obtained from:

APEX Support Team
(734) 523-7348 /1/

/1/ Material formerly appeared in Part 15, Section 3, Sheet 125.

4. NETWORK RECONFIGURATION SERVICE (cont'd)

F. Prices

1. Service Elements

Description /Billing Code/	Nonrecurring Charge	Monthly Payment *Term Payment Plans* 12 Months	36 Months	60 Months[/1/]	Monthly	
NRS Service Charge - per customer database /FN6DD/	$4,800.00	$228.00	$204.00	$192.00	$240.00	
NRS Access Arrangement - per arrangement /RNQPA/	75.00	199.50	178.50	168.00	210.00	
NRS System Location Port Termination - per termination						
• Base Rate[/2/] /PT5/	-	19.00	17.00	16.00	20.00	(C)
• DS1						
Zone 1 /PQD11/	-	45.60	40.80	38.40	48.00	
Zone 2 /PQD12/	-	45.60	40.80	38.40	48.00	
Zone 3 /PQD13/	-	45.60	40.80	38.40	48.00	
• DS3						
Zone 1 /R6SX1/	-	166.25	148.75	140.00	175.00	
Zone 2 /R6SX2/	-	166.25	148.75	140.00	175.00	
Zone 3 /R6SX3	-	166.25	148.75	140.00	175.00	

Optional Features	Nonrecurring Charge
Database Modification - per modification /FN6DC/	$50.00
Attendant Access - per first 30 minutes (per occurrence) /NRBN1/ - per additional 15 minute increments /NRBNA/	55.00 10.00
NRS Training - per hour of additional training /NRBNT/	50.00

/1/ As of October 1, 2013, Term Payment Plan terms greater than 36 months are no longer available for new or renewing subscribers.

/2/ Effective June 30, 2021, Base Rate Service is grandfathered. See Part 20, Section 15, Sheet 141 for service availability. (N) (N)

4. NETWORK RECONFIGURATION SERVICE (cont'd) /2/ (C)

F. Prices (cont'd)

2. Payment Plans

- Month to Month
  Network Reconfiguration Service is available on a month to month basis.

- Term Payment Plans
  Network Reconfiguration Service is available under the Term Payment Plan (TPP) whereby customers must select either a 12, 36 or 60 month/1/ period. After the selected Term Payment Plan period is satisfied, the monthly rate will apply unless a new TPP is selected. Refer to *Term Payment Plans* in Part 15, Section 1.

- Single Payment Option (SPO)
  A Single Payment Option is available for this service. Refer to *Term Payment Plans - Single Payment Option* in Part 15, Section 1.

3. Termination Charges

Termination Charges will apply to service terminated prior to the contracted period. The termination charge for all TPP terms for Network Reconfiguration Service will be calculated as described in *Term Payment Plans - Termination Charges* in Part 15, Section 1.

4. Credit Allowance

A credit allowance will be given for failure to meet the installation interval service date or for interruption of service. Refer to *Credit Allowances* in Part 15, Section 1 for calculating credit allowances. (Utilize Step 2 "for two-point services" to compute the credit allowance.) Credit allowances for circuits affected by an NRS failure are calculated on a "by circuit" basis according to the type of circuit affected. /2/

/1/ As of October 1, 2013, Term Payment Plan terms greater than 36 months are no longer available for new or renewing subscribers. /2/ /2/
/2/ Material formerly appeared in Part 15, Section 3, Sheet 129.

5. BASIC DIGITAL SERVICE (BDS)

Effective March 16, 1992, no further requests for, or rearrangements of, Basic Digital Service will be accepted by the Company. Existing customers who will not experience any increase in rate will be converted to Base Rate Service at no charge. For those customers, Base Rate Service rates will apply. Customers who would experience a rate increase will continue to subscribe to Basic Digital Service.

A. Types and Description

Basic Digital Service (BDS) provides for the four-wire simultaneous two-way transmission of digital signals at synchronous speeds of 2.4, 4.8, 9.6 or 56 Kilobits per second (Kbps).

BDS is used to connect two customer premises for digital communication between such premises, or a customer premise and central office.

B. Regulations

In addition to the regulations set forth in Part 15, Sections 1 and 3, the following regulations apply to BDS.

1. The regulations specified herein are in addition to the applicable regulations specified in this Guidebook and in tariffs of this Company, except as modified in the following paragraphs:

a. Termination Charges

(1) When service is terminated by the customer, or by the Company for any reason for which it may terminate such service under the provisions of this Guidebook, prior to the expiration of the initial contract period, the following termination charges apply in addition to all charges due for the service which has been furnished:

(a) Contract Period of One Month

In the case of services for which the initial contract period is one month, the termination charge will be charges due for the unexpired portion of the one month period.

(b) Change Speed of Service

In the case of a change of speed from or to 2.4, 4.8, and 9.6 Kbps, termination charges do not apply. A change from 56 Kbps to 2.4, 4.8, 9.6 or vice versa constitutes a termination of contract and termination charges as specified in (a) preceding will apply.

5. BASIC DIGITAL SERVICE (BDS) (cont'd)

B. Regulations (cont'd)

1. (cont'd)

a. (cont'd)

(1) (cont'd)

(c) The total amount of the nonrecurring charges may be deferred. The minimum amount that may be deferred is $1200.00. The deferred payment period must be equal to the customer's VTPP payment period.

(d) Termination charges apply to all changes in the serving address of the service.

2. Availability of Service

a. BDS is available on a 24 hour per day, seven days a week basis.

b. BDS can only be provided from central offices equipped with suitable digital facilities and equipment. Where special construction of facilities is necessary, such construction will be provided at the charges specified in Part 2, Section 5.

c. All signals generated by customer terminating equipment must meet signal and format constraints contained in Ameritech Technical Reference AN-TR-NPL-000007.

d. Suspension of service is not provided on BDS.

3. Minimum Service Period

The minimum service period is one month.

4. Channel Interface (CIs)

CIs are required for customer-provided premises equipment. The following CIs define the bit rates that are available for BDS.

CI	Bit Rate
DU-24	2.4 Kbps
DU-48	4.8 Kbps
DU-96	9.6 Kbps
DU-56	56.0 Kbps

5. BASIC DIGITAL SERVICE (BDS) (cont'd)

C. Rates

The following rates and charges apply for BDS service in addition to the rates and charges for the associated service.

1. One channel termination is applicable to each station connected.

2. Channel mileage is portrayed in mileage bands. There are two rates that apply for each band, i.e., a flat rate per band and a rate per mile.

3. Channel Termination

Description /Billing Code/	Nonrecurring Charge	Monthly Rate
2.4 Kbps /1DCPX/	$299.11	$59.00
4.8 Kbps /1DCPX/	299.11	59.00
9.6 Kbps /1DCPX/	299.11	59.00
56 Kbps /1DCPX/	398.81	59.00

4. Channel Mileage

Description /Billing Code/	Monthly Rates Fixed	Per Mile
(a) 2.4 Kbps /XUQ1X/ /1LNPB/		
0	21.00/1/	None
0 to 4	21.00	2.65
5 to 8	21.00	2.65
9 to 25	21.00	2.65
26 to 50	21.00	2.65
51 and over	21.00	2.65

/1/ The fixed mileage rate does not apply to zero (0) mileage band channels connected to High Capacity Transport Service.

5. BASIC DIGITAL SERVICE (BDS) (cont'd)

C. Rates (cont'd)

4. Channel Mileage (cont'd)

Description /Billing Code/	Monthly Rates Fixed	Per Mile
Mileage Bands		
(b) 4.8 Kbps /XUQ2X/ /1LNPC/		
0	$21.00/1/	None
0 to 4	21.00	$2.65
5 to 8	21.00	2.65
9 to 25	21.00	2.65
26 to 50	21.00	2.65
51 and over	21.00	2.65
(c) 9.6 Kbps /XUQ3X/ /1LNP9/		
0	21.00/1/	None
0 to 4	21.00	2.65
5 to 8	21.00	2.65
9 to 25	21.00	2.65
26 to 50	21.00	2.65
51 and over	21.00	2.65
(d) 56 Kbps /XUQ4X/ /1LNPD/		
0	44.00/1/	None
0 to 4	44.00	5.25
5 to 8	44.00	5.25
9 to 25	44.00	5.25
26 to 50	44.00	5.25
51 and over	44.00	5.25

/1/ The fixed mileage rate does not apply to zero (0) mileage band channels connected to High Capacity Transport Service.

6. HIGH CAPACITY TRANSPORT SERVICE

Effective March 16, 1992, no further requests for Direct High Capacity Service will be accepted by the Company. Existing customers who will not experience any increase in rate will be converted to DS1 Service at no charge. For those customers DS1 Service rates will apply. Customers who would experience a rate increase will continue to subscribe to Direct High Capacity Service.

A. General

1. High Capacity Transport Service consists of two-point digital channels and equipment which provides for simultaneous two-way isochronous transmission at a speed of 1.544 Megabits per second (Mbps). High Capacity Transport Service may be used to connect:

   a. two customer premises

   b. a customer premises and the central office

   c. between central offices for access between Centrex Services.

B. Regulations

1. The regulations specified herein are in addition to the applicable regulations specified in this Guidebook and in tariffs of this Company.

2. High Capacity Transport Service is offered under the Variable Term Payment Plan (VTPP) as specified in Part 2, Section 3. All conditions and regulations pertaining to the VTPP are included in Part 2, Section 3, except as modified in the following paragraphs:

   a. Termination Charges

      (1) When service is terminated by the customer, or by the Company for any reason for which it may terminate such service under the provisions of this Guidebook, prior to the expiration of the initial contract period, the following termination charges apply in addition to all charges due for the service which has been furnished:

         (a) Contract Period of One Month

            In the case of services for which the initial contract period is one month, the termination charges will be charges due for the unexpired portion of a twelve month period.

6. HIGH CAPACITY TRANSPORT SERVICE (cont'd)

B. Regulations (cont'd)

2. (cont'd)

a. Termination Charges (cont'd)

(1) (cont'd)

(b) Contract Periods of Three or Five Years

In the case of services for which the initial contract period is three or five years, the termination charges will be an amount equal to fifty per cent of the charges for the unexpired portion of such initial contract period, at the rate in effect at the time the service is discontinued.

3. Availability of Service

a. High Capacity Transport Service can only be provided from central offices equipped for appropriate digital transmission.

b. High Capacity Transport Service is available on channels confined to the name building or continuous property on a cost incurred basis.

4. Provision of Service

a. High Capacity Transport Service is available only on a two-point basis.

b. Performance Criteria

High Capacity Transport Service is designed to provide an average performance of at least 95% error-free seconds of transmission measured over a continuous 24 hour period.

5. Customer Signal Parameters

All signals generated by customer terminal equipment must meet the signal and format constraints described in Bell System Technical Reference Publication 43801 dated November, 982, Bell System Technical Reference Publication 41451 dated January, 1983 and in Bell System Technical Reference Publication 62411 dated September, 1993.

6. HIGH CAPACITY TRANSPORT SERVICE (cont'd)

B. Regulations (cont'd)

6. Service Functions/Channelization

a. Channelization equipment will be provided by the Company at the central office. If the customer wants the channelization equipment located on his premises, the equipment must be provided by the customer.

b. The Company will provide channelization equipment at the central office when the customer desires two-point, premises to central office or central office to central office services.

c. Company provided central office channelization equipment provides service for up to 24 voice grade channels.

7. Channel Plug-Ins

One channel plug-in is required for each channel termination in the channelization equipment.

C. Rates and Charges

The following rates and charges apply for High Capacity Transport Service in addition to the rates and charges for the associated service.

6. HIGH CAPACITY TRANSPORT SERVICE (cont'd)

C. Rates and Charges (cont'd)

1. Local channel

Description /Billing Code/	Rate
a. First mile or fraction thereof	
Installation charge	$960.25
Variable term option monthly rate	
- 1 month	260.30
- 36 months	251.00
- 60 months	241.80
b. Each additional mile or fraction thereof	
Installation charge	233.75
Variable term option monthly rate	
- 1 month	79.50
- 36 months /1LDPB/	76.60
- 60 months	73.80

2. Additional channel

Additional local channel rates and charges apply to the installation of each additional local channel furnished on the same occasion as the local channel, to the same customer to the same location, i.e., originating and terminating.

Description /Billing Code/	Rate
a. First mile or fraction thereof	
Installation charge	$960.25
Variable term option monthly rate	
- 1 month	158.35
- 36 months /1LDP2/	153.85
- 60 months	149.30
b. Each additional mile or fraction thereof	
Installation charge	233.75
Variable term option monthly rate	
- 1 month	33.05
- 36 months /1LDP4/	32.10
- 60 months	31.20

6. HIGH CAPACITY TRANSPORT SERVICE (cont'd)

C. Rates and Charges (cont'd)

Description /Billing Code/	Rate
3. Interoffice Mileage	
a. First mile or fraction thereof	
Installation charge	-
Variable term option monthly rate	
- 1 month	$ 80.40
- 36 months /ILNPX/	77.60
- 60 months	74.70
b. Each additional mile or fraction thereof	
Installation charge	-
Variable term option monthly rate	
- 1 month	50.50
- 36 months /1LNPR/	49.10
- 60 months	47.65
4. Channelization Equipment	
a. Basic equipment to derive up to 24 Voice grade channels per 1.544 line	
Installation charge	
Variable term option monthly rate	-
- 1 month	
- 36 months /VBD24/	266.05
- 60 months	258.50
	250.85

6. HIGH CAPACITY TRANSPORT SERVICE (cont'd)

C. Rates and Charges (cont'd)

Description /Billing Code/	Rate
4. Channelization Equipment (cont'd)	
b. Channel plug-ins	
(1) Voice plug-in, per location	
Two-wire	
Installation charge	-
Variable term option monthly rate	
- 1 month	$ 6.40
- 36 months	6.25
- 60 months /VV2/	6.05
Two-wire - off premise station	
Installation charge	-
Variable term option monthly rate	
- 1 month	6.35
- 36 months	6.20
- 60 months /VOM/	6.00
Four-wire with no signaling or with E & M signaling	
Installation charge	-
Variable term option monthly rate	
- 1 month	4.45
- 36 months	4.30
- 60 months /VV4/	4.20
Four-wire with SF signaling	
Installation charge	-
Variable term option monthly rate	
- 1 month	12.40
- 36 months	12.10
- 60 months /VV4SF/	11.75

7. DS3 SERVICE PACKAGES[/1/]

A. Term Payment Plans

Renewal Options

Term Payment Plan Renewal Program Option

Customers may upgrade to a larger DS3 Service Package at the same time as the service is renewed under the TPP Renewal Program. However, the customer will be provided a renewal credit based on the Service Package that was in place prior to the upgrade. If the customer subsequently terminates the larger DS3 Service Package prior to the expiration of the renewed TPP term, or downgrades to a Service Package that is smaller than the Service in place prior to the upgrade, the customer will be liable for a TPP renewal termination charge equal to the original TPP renewal credit.

The following renewal credits will apply to existing 36-month TPP service components renewed under the TPP Renewal Program.

	TPP Renewal Credit	
Service Component	36 Months	60 Months
DS3 Service Package with Electrical Interface		
DS3 (1 package)	$ 580.00	$ 1,160.00
DS3B (2 package)	1,120.00	2,240.00
DS3C (3 package)	1,580.00	3,180.00
DS3F (6 package)	2,840.00	5,670.00
DS3L (12 package)	4,210.00	8,420.00
DS3X (24 package)	6,450.00	12,890.00

/1/ DS3 Service Packages will not be available to new customers after April 10, 2000. Customers with existing DS3 Service Packages may maintain their service as currently configured, or may add/reduce the number of active Service Channels within their existing Service Package configuration subject to the terms and conditions of this Guidebook. However, existing customers may not; order new DS3 Service Packages, renew their DS3 Service Package TPP, or upgrade their DS3 Service Packages after April 10, 2000. Customers may convert their existing DS3 Service Package(s) to DS3 Service as offered after April 10, 2000 at no charge as long as the new TPP is of equal or longer term as their previous Service Package TPP and there is no decrease in the quantity of DS3 channels. DS3 Service Packages will no be available after April 9, 2005.

7. DS3 SERVICE PACKAGES[/1/] (cont'd)

A. Term Payment Plans (cont'd)

Renewal Options (cont'd)

Term Payment Plan Renewal Program Option

The following renewal credits will apply to existing 60-month TPP service components renewed under the TPP Renewal Program.

Service Component	TPP Renewal Credit 36 Months	60 Months
DS3 Service Package with Electrical Interface		
DS3 (1 package)	$ 970.00	$ 1,940.00
DS3B (2 package)	1,870.00	3,730.00
DS3C (3 package)	2,650.00	5,300.00
DS3F (6 package)	4,730.00	9,450.00
DS3L (12 package)	7,020.00	14,040.00
DS3X (24 package)	10,740.00	21,480.00

/1/ DS3 Service Packages will not be available to new customers after April 10, 2000. Customers with existing DS3 Service Packages may maintain their service as currently configured, or may add/reduce the number of active Service Channels within their existing Service Package configuration subject to the terms and conditions of this Guidebook. However, existing customers may not; order new DS3 Service Packages, renew their DS3 Service Package TPP, or upgrade their DS3 Service Packages after April 10, 2000. Customers may convert their existing DS3 Service Package(s) to DS3 Service as offered after April 10, 2000 at no charge as long as the new TPP is of equal or longer term as their previous Service Package TPP and there is no decrease in the quantity of DS3 channels. DS3 Service Packages will no be available after April 9, 2005.

7. DS3 SERVICE PACKAGES[/1/] (cont'd)

A. Term Payment Plans (cont'd)

Termination Charges

3. DS3 Service Packages

- Service discontinued in the first through 11th month

((.85 x 12-month TPP price) x (12 - number of months in service)) + ((12-month TPP price - subscribed to TPP price) x number of months in service) = Termination Charge

Example:

A customer subscribed to a 36-month TPP term and disconnected service at the end of the fifth month. This customer's termination charge would be:

((.85 x 12-month TPP price) x (12 - 5 months)) + ((12-month TPP price - 36-month TPP price) x 5 months) = Termination Charge

All recurring price termination charges will be based on the TPP prices in effect at the time of termination.

/1/ DS3 Service Packages will not be available to new customers after April 10, 2000. Customers with existing DS3 Service Packages may maintain their service as currently configured, or may add/reduce the number of active Service Channels within their existing Service Package configuration subject to the terms and conditions of this Guidebook. However, existing customers may not; order new DS3 Service Packages, renew their DS3 Service Package TPP, or upgrade their DS3 Service Packages after April 10, 2000. Customers may convert their existing DS3 Service Package(s) to DS3 Service as offered after April 10, 2000 at no charge as long as the new TPP is of equal or longer term as their previous Service Package TPP and there is no decrease in the quantity of DS3 channels. DS3 Service Packages will no be available after April 9, 2005.

7. DS3 SERVICE PACKAGES/1/ (cont'd)

A. Term Payment Plans (cont'd)

Termination Charges (cont'd)

3. DS3 Service Packages

- Service discontinued in the 12th through 60th month

  The dollar difference between the current TPP price for the TPP term that could have been completed during the time the service was actually in service and the customer's current TPP price for each month the service was provided.

  Example:

  A customer subscribed to a 60-month TPP term and disconnected service during the 37th month. This customer's termination charge would be:

  (36-month TPP price - 60-month TPP price) x 37 =
  Termination Charge

  The 36-month TPP term could have been completed during the months the service was actually in service.

  All recurring price termination charges will be based on the TPP prices in effect at the time of termination.

/1/ DS3 Service Packages will not be available to new customers after April 10, 2000. Customers with existing DS3 Service Packages may maintain their service as currently configured, or may add/reduce the number of active Service Channels within their existing Service Package configuration subject to the terms and conditions of this Guidebook. However, existing customers may not; order new DS3 Service Packages, renew their DS3 Service Package TPP, or upgrade their DS3 Service Packages after April 10, 2000. Customers may convert their existing DS3 Service Package(s) to DS3 Service as offered after April 10, 2000 at no charge as long as the new TPP is of equal or longer term as their previous Service Package TPP and there is no decrease in the quantity of DS3 channels. DS3 Service Packages will no be available after April 9, 2005.

7. DS3 SERVICE PACKAGES/1/ (cont'd)

B. Definitions

DS3 Service Channel
The individually activated DS3 channel(s) within a DS3 Service Package.

DS3 Service Package
Provides the capability to provision a maximum number of DS3 channels.

Local Distribution Channel
Provides interconnection between the Company Serving Wire Center (SWC) and the customer premises. Consists of two rates elements: DS3 Service Packages and DS3 Service Channels.

/1/ DS3 Service Packages will not be available to new customers after April 10, 2000. Customers with existing DS3 Service Packages may maintain their service as currently configured, or may add/reduce the number of active Service Channels within their existing Service Package configuration subject to the terms and conditions of this Guidebook. However, existing customers may not; order new DS3 Service Packages, renew their DS3 Service Package TPP, or upgrade their DS3 Service Packages after April 10, 2000. Customers may convert their existing DS3 Service Package(s) to DS3 Service as offered after April 10, 2000 at no charge as long as the new TPP is of equal or longer term as their previous Service Package TPP and there is no decrease in the quantity of DS3 channels. DS3 Service Packages will no be available after April 9, 2005.

7. DS3 SERVICE PACKAGES/1/ (cont'd)

C. Terms and Conditions

In addition to the Terms and Conditions set forth in Part 15, Section 1, the following applies to DS3 Service.

1. DS3 Service Package

Each DS3 Service Package must have a minimum number of service channels activated at all times. A new DS3 Service Package must be installed with at least the minimum required Service Channels. A customer may not disconnect Service Channels from an existing DS3 Service Package below the minimum required in that package without downgrading the Service Package size or terminating the DS3 LDC Service.

DS3 Service Package (with Electrical Interface)	Minimum Required SCs	Maximum Available SCs
DS3	1	1
DS3B	1	2
DS3C	1	3
DS3F	3	6
DS3L	7	12
DS3X	13	24

/1/ DS3 Service Packages will not be available to new customers after April 10, 2000. Customers with existing DS3 Service Packages may maintain their service as currently configured, or may add/reduce the number of active Service Channels within their existing Service Package configuration subject to the terms and conditions of this Guidebook. However, existing customers may not; order new DS3 Service Packages, renew their DS3 Service Package TPP, or upgrade their DS3 Service Packages after April 10, 2000. Customers may convert their existing DS3 Service Package(s) to DS3 Service as offered after April 10, 2000 at no charge as long as the new TPP is of equal or longer term as their previous Service Package TPP and there is no decrease in the quantity of DS3 channels. DS3 Service Packages will no be available after April 9, 2005.

7. DS3 SERVICE PACKAGES/1/ (cont'd)

C. Terms and Conditions (cont'd)

1. DS3 Service Package (cont'd)

DS3 Service Packages are available with an optical channel interface. These DS3 Service Packages provide a single optical interface for multiple DS3 Service Channels (SCs) and are available as follows:

DS3 Service Package (with Optional Interface)	Minimum Required SCs in Package	Maximum Number of DS3 Equivalent SCs
DS3012	1	12
DS3024	13	24

All DS3 service channels within the package must be ordered for termination at the same customer designated premises, billed to the same customer and in the same Serving Wire Center (SWC). All service channels in a package are required to be connected to other service components (i.e., channel mileage, multiplexing, or another service channel) at the time the service channel is installed, except at the fiber hub.

The interconnection of individual service channels with other components, such as channel mileage and multiplexing, may be different. For example, one service channel within the package may have multiplexing, while another service channel may have channel mileage associated with it. Components connected to each service channel in the service package may have different Term Payment Plans periods from the service package in which the service channels reside.

/1/ DS3 Service Packages will not be available to new customers after April 10, 2000. Customers with existing DS3 Service Packages may maintain their service as currently configured, or may add/reduce the number of active Service Channels within their existing Service Package configuration subject to the terms and conditions of this Guidebook. However, existing customers may not; order new DS3 Service Packages, renew their DS3 Service Package TPP, or upgrade their DS3 Service Packages after April 10, 2000. Customers may convert their existing DS3 Service Package(s) to DS3 Service as offered after April 10, 2000 at no charge as long as the new TPP is of equal or longer term as their previous Service Package TPP and there is no decrease in the quantity of DS3 channels. DS3 Service Packages will no be available after April 9, 2005.

7. DS3 SERVICE PACKAGES[/1/] (cont'd)

D. Prices

1. Service Elements

Description /Billing Code/	Monthly Payment *Term Payment Plans* 12 Months	36 Months	60 Months	Monthly Extension
Local Distribution Channel[/1/]				
- per point of termination				
• Electrical Interface				
- per service package				
Zone 1				
DS3 /PCG31/	$ 2,070.00	$ 855.00	$ 608.00	$ 2,070.00
DS3B /PCG31/	2,700.00	1,652.00	1,173.00	2,700.00
DS3C /PCG31/	3,690.00	2,355.00	1,666.00	3,690.00
DS3F /PCG31/	6,615.00	4,590.00	2,970.00	6,615.00
DS3L /PCG31/	10,350.00	6,660.00	4,410.00	10,350.00
DS3X /PCG31/	15,750.00	9,450.00	6,750.00	15,750.00

/1/ DS3 Service Packages will not be available to new customers after April 10, 2000. Customers with existing DS3 Service Packages may maintain their service as currently configured, or may add/reduce the number of active Service Channels within their existing Service Package configuration subject to the terms and conditions of this Guidebook. However, existing customers may not; order new DS3 Service Packages, renew their DS3 Service Package TPP, or upgrade their DS3 Service Packages after April 10, 2000. Customers may convert their existing DS3 Service Package(s) to DS3 Service as offered after April 10, 2000 at no charge as long as the new TPP is of equal or longer term as their previous Service Package TPP and there is no decrease in the quantity of DS3 channels. DS3 Service Packages will no be available after April 9, 2005.

7. DS3 SERVICE PACKAGES[/1/] (cont'd)

D. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payment *Term Payment Plans* 12 Months	36 Months	60 Months	Monthly Extension
Local Distribution Channel (cont'd)				
- per point of termination				
• Electrical Interface				
- per service package				
Zone 2				
DS3 /PCG32/	$ 2,139.00	$ 901.00	$ 643.00	$ 2,139.00
DS3B /PCG32/	2,790.00	1,739.00	1,239.00	2,790.00
DS3C /PCG32/	3,813.00	2,478.00	1,759.00	3,813.00
DS3F /PCG32/	6,835.50	4,743.00	3,069.00	6,835.50
DS3L /PCG32/	10,695.00	6,883.00	4,557.00	10,695.00
DS3X /PCG32/	16,275.00	9,765.00	6,975.00	16,275.00

/1/ DS3 Service Packages will not be available to new customers after April 10, 2000. Customers with existing DS3 Service Packages may maintain their service as currently configured, or may add/reduce the number of active Service Channels within their existing Service Package configuration subject to the terms and conditions of this Guidebook. However, existing customers may not; order new DS3 Service Packages, renew their DS3 Service Package TPP, or upgrade their DS3 Service Packages after April 10, 2000. Customers may convert their existing DS3 Service Package(s) to DS3 Service as offered after April 10, 2000 at no charge as long as the new TPP is of equal or longer term as their previous Service Package TPP and there is no decrease in the quantity of DS3 channels. DS3 Service Packages will no be available after April 9, 2005.

7. DS3 SERVICE PACKAGES[/1/] (cont'd)

D. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payment *Term Payment Plans* 12 Months	36 Months	60 Months	Monthly Extension
Local Distribution Channel (cont'd)				
- per point of termination				
• Electrical Interface				
- per service package				
Zone 3				
DS3 /PCG33/	$ 2,300.00	$ 933.00	$ 668.00	$ 2,300.00
DS3B /PCG33/	3,000.00	1,801.00	1,286.00	3,000.00
DS3C /PCG33/	4,100.00	2,564.00	1,825.00	4,100.00
DS3F /PCG33/	7,350.00	5,100.00	3,300.00	7,350.00
DS3L /PCG33/	11,500.00	7,400.00	4,900.00	11,500.00
DS3X /PCG33/	17,500.00	10,500.00	7,500.00	17,500.00

/1/ DS3 Service Packages will not be available to new customers after April 10, 2000. Customers with existing DS3 Service Packages may maintain their service as currently configured, or may add/reduce the number of active Service Channels within their existing Service Package configuration subject to the terms and conditions of this Guidebook. However, existing customers may not; order new DS3 Service Packages, renew their DS3 Service Package TPP, or upgrade their DS3 Service Packages after April 10, 2000. Customers may convert their existing DS3 Service Package(s) to DS3 Service as offered after April 10, 2000 at no charge as long as the new TPP is of equal or longer term as their previous Service Package TPP and there is no decrease in the quantity of DS3 channels. DS3 Service Packages will no be available after April 9, 2005.

7. DS3 SERVICE PACKAGES[/1/] (cont'd)

D. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payment *Term Payment Plans* 12 Months	36 Months	60 Months	Monthly Extension
Local Distribution Channel				
- per point of termination				
• Optical Interface				
- per service package				
Zone 1				
DS3012 /PCG31/	$ 9,500.00	$4,900.00	$3,000.00	$ 9,500.00
DS3024 /PCG31/	15,000.00	7,000.00	4,000.00	15,000.00
Zone 2				
DS3012 /PCG32/	9,500.00	$4,900.00	$3,000.00	9,500.00
DS3024 /PCG32/	15,000.00	7,000.00	4,000.00	15,000.00
Zone 3				
DS3012 /PCG33/	9,500.00	$4,900.00	$3,000.00	9,500.00
DS3024 /PCG33/	15,000.00	7,000.00	4,000.00	15,000.00

/1/ DS3 Service Packages will not be available to new customers after April 10, 2000. Customers with existing DS3 Service Packages may maintain their service as currently configured, or may add/reduce the number of active Service Channels within their existing Service Package configuration subject to the terms and conditions of this Guidebook. However, existing customers may not; order new DS3 Service Packages, renew their DS3 Service Package TPP, or upgrade their DS3 Service Packages after April 10, 2000. Customers may convert their existing DS3 Service Package(s) to DS3 Service as offered after April 10, 2000 at no charge as long as the new TPP is of equal or longer term as their previous Service Package TPP and there is no decrease in the quantity of DS3 channels. DS3 Service Packages will no be available after April 9, 2005.

7. DS3 SERVICE PACKAGES[/1/] (cont'd)

D. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Price
DS3 Service Channel	
- per termination	
• Electrical	
Zone 1 /HZ4X1/	$400.00
Zone 1 /HZ4X2/	400.00
Zone 1 /HZ4X3/	400.00
• Optical	
Zone 1 /HZ4X1/	300.00
Zone 1 /HZ4X2/	300.00
Zone 1 /HZ4X3/	300.00

/1/ DS3 Service Packages will not be available to new customers after April 10, 2000. Customers with existing DS3 Service Packages may maintain their service as currently configured, or may add/reduce the number of active Service Channels within their existing Service Package configuration subject to the terms and conditions of this Guidebook. However, existing customers may not; order new DS3 Service Packages, renew their DS3 Service Package TPP, or upgrade their DS3 Service Packages after April 10, 2000. Customers may convert their existing DS3 Service Package(s) to DS3 Service as offered after April 10, 2000 at no charge as long as the new TPP is of equal or longer term as their previous Service Package TPP and there is no decrease in the quantity of DS3 channels. DS3 Service Packages will no be available after April 9, 2005.

8. GIGAMAN® SERVICE

A. Prices

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payment *Term Payment Plans* 84 Months[/1/]
Node Termination - per point of termination /N2TDX/	$690.00
Node Port - per 1 Gbps Channel Interface /LNVXO/	310.00
Wire Center Termination - per termination /CTJ/	30.00
Channel Mileage - per inter-wire center mile /3LN5S/	30.00

/1/ Effective August 17, 2001, the 84-month recurring rate will no longer be available to new customers as part of the Term Payment Plan (TPP) for GigaMAN Service[/2/]. Existing customers may retain the 84-month recurring rate through the length of their existing contract. (C)

/2/ Effective September 30, 2017, GigaMAN Service will no longer be available for purchase by new or existing customers. See Paragraph 11. in this Section. (N) (N)

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10. Multi-Service Optical Network (MON) Ring Service[/1/] /4/

A. Description

Multi-service Optical Network Ring (MON Ring) Service provides high volume optical transport utilizing multiplexing technology in a dedicated ring configuration. Multiple data signals are transmitted over fiber-optic cable using different wavelengths of light. Each of these wavelengths represents a transmission channel in the MON Ring system and is protocol independent of every other channel in the system.

MON Ring Service is only available within the Local Access and Transport Areas (LATAs) served by and within the service territories of the Company.

MON Ring Service allows customers to combine their multiple data signals so that they can be amplified and transported over one network. MON Ring Service provides dedicated capacity over a single pair of fiber in two directions that increases capacity without limiting customer-required data interfaces. /4/

Sub-Rate Systems /5/

- Sub-Rate System – provides a multiplexing system operating at 1.25 Gbps with 4 ports. Applicable to ESCON™, Fast Ethernet, D1 Video, DVB-ASI Video, and OC-3/OC-3c port interfaces. Sub-rate multiplexing is offered at the serving wire center only for OC-3/OC-3c.[/2/]

- ESCON™ Sub-Rate System - provides a multiplexing system which allows customers to put up to 8 ESCON™ Channels (no other protocol) on one port card.[/2/]

- GigE/FC/FICON™ Sub-Rate System - provides a multiplexing system which allows customers to put 2 Gigabit Ethernet (GigE) Channels or 2 Fibre Channels (1.0625 Gbps) or 2 FICON™ Channels (1.0625 Gbps) or any combination thereof totaling two channels on the sub-rate system. Fibre Channel (2.125 Gbps) and FICON™ (2.125 bps) cannot be placed on this sub-rate system.

- OC-3/OC-12 Sub-Rate System – provides a multiplexing system which allows customers to put up to either 4 OC-3/OC-3c signals or OC-12/OC-12c signals or combinations thereof on one card. This sub-rate multiplexing system will have independent timing which allows multiple OC-3/OC-3c services or OC-12/OC-12c services on one port card.[/2/]

- SONET OC-48 Sub-Rate System – provides a multiplexing system which allows customers to put up to four (4) OC-48/OC-48c signals on one card.[/3/] /5/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Available where facilities and equipment permit. /5/
/3/ Available where facilities and equipment permit, beginning November 30, 2005. /5/
/4/ Material formerly appeared on Part 15, Section 3, Sheet 130.
/5/ Material formerly appeared on Part 15, Section 3, Sheet 131.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont') /3/

A. Description (cont'd)

MON Ring Service offers the following port interfaces:

IBM Protocols

- ESCON™ (200 Mbps) – Enterprise Systems Connection – An IBM duplex optical connection used for computer-to-computer data exchange. ESCON™ is limited to a maximum distance of 43 km and actual data throughput is distance sensitive. ESCON™ is offered as a riding circuit where facilities and equipment permit.

- ETR/CLO™ (8 Mbps – Manchester Encoded) – External Timing References/Control Link Oscillator. This protocol is used for IBM GDPS™ architecture for multiple-location host processors. ETR/CLO™ is limited to a maximum distance of 40 km.[/2/]

- FICON™ (1.0625 Gbps and 2.125 Gbps) – A higher-speed evolution of ESCON™, enabling 1 Gbps connectivity among mainframes, storage devices and peripherals. FICON™ is limited to a maximum distance of 100 km and actual data throughput is distance sensitive. 1.0625 Gbps service is offered as a riding circuit where facilities and equipment permit. 1.0625 Gbps service is capable of being multiplexed on the GigE/FC/FICON™ Sub-Rate System.

- ISC-1™ (1.0625 Gbps) – Inter-System Coupling – This protocol is used with IBM GDPS™ architecture for multiple-location host processors. ISC-1™ is limited to a maximum distance of 40 km.[/2/]

- ISC-3™ (2.125 Gbps) – Inter-System Channel. ISC-3™ links have a peak data rate of 2.125 Gbps and can interconnect IBM™ eServer z900 systems for distances up to 100 km. /3/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.

/2/ ESCON™, ETR™, FICON™, ISC™ and GDPS™ are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504. /3/

/3/ Material formerly appeared on Part 15, Section 3, Sheet 132.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /3/

A. Description (cont'd)

Other Protocols

- Fibre Channel (1.0625 Gbps and 2.125 Gbps) – an industry standard protocol used to interconnect Storage Area Networks (SANs). Fibre Channel is limited to a maximum distance of 100 km and actual data throughput is distance sensitive. 1.0625 Gbps service is offered as a riding circuit where facilities and equipment permit. 1.0625 Gbps service is capable of being multiplexed on the GigE/FC/FICON™ Sub-Rate System.

- Fast Ethernet – a version of Ethernet that allows data transmission rates of 100 Mbps. Offered as a riding circuit where facilities and equipment permit.

- Gigabit Ethernet – a version of Ethernet that allows data transmission rates of 1 Gbps. Gigabit Ethernet (GigE) offered as a riding circuit where facilities and equipment permit.

- 10 Gigabit Ethernet (WAN-PHY) – a version of Ethernet that allows data transmission rates of 9.953 Gbps with a WAN-PHY only interface.

- 10 Gigabit Ethernet (LAN-PHY) – a version of Ethernet that allows data transmission rates of 10.3125 Gbps with a LAN-PHY only interface.

- D1 Video – uncompressed digital video signal operating at 270 Mbps. Offered as a riding circuit where facilities and equipment permit.

- DVB-ASI Video – Digital Video Broadcasting – provides a 1310 nm optical interface at 270 Mbps. Offered as a riding circuit where facilities and equipment permit.

- SONET OC-3/OC-3c - provides a fiber-based 155.52 Mbps synchronous optical full duplex data transmission capability. Offered as a riding circuit where facilities and equipment permit.[/2/]

- SONET OC-12/OC-12c - provides a fiber-based 622.08 Mbps synchronous optical full duplex data transmission capability. Offered as a riding circuit where facilities and equipment permit.[/2/]

- SONET OC-48/OC-48c - provides a fiber-based 2488.32 Mbps synchronous optical full duplex data transmission capability. Offered as a riding circuit where facilities and equipment permit beginning November 30, 2005.[/2/]

- SONET OC-192/OC-192c - provides a fiber-based 9953.28 Mbps synchronous optical full duplex data transmission capability.[/2/] /3/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.

/2/ These port interfaces are available at both the Customer Premises Node and the Central Office Node. All other port interfaces are available only at the Customer Premises Node. /3/

/3/ Material formerly appeared on Part 15, Section 3, Sheet 133.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /2/

B. Definitions

Bulk Power
Provides for customer premises node power which will be required if the customer's power source is AC.

Central Office Node
Provides for the termination of service at a serving wire center.

Channel Mileage (CM)
Provides for the transmission facilities between the serving wire centers associated with each node involved on the MON Ring. Channel mileage is calculated using the V and H coordinate method described in Part 15, Section 1. A one-mile minimum will be billed between nodes. A two-node ring configuration has a two-mile minimum, one mile from the Central Office Node to the Customer Premises Node, and one mile from the Customer Premises Node to the Central Office Node.

Channel Protection (Optional)
Provides protection for a single channel toward the network. It does not protect the channel against failure towards the customer interface. Protection reduces the maximum individual channel capacity of the system.

Customer Premises Node
Provides for the termination of service at the customer's premises and presents the various selected ports to the customer.

Optical Amplifier
Provides for an optical signal boost if the distance between nodes exceeds the transmission loss parameters (link loss specific). Engineering considerations may dictate the need for more than one optical amplifier on a circuit route. These additions may be service affecting. Optional amplifiers may be located at a Customer Premises Node, a Central Office Node or at a serving wire center.

Port
Provides the channel interface at any Node location for each unprotected or protected channel.

Regenerator
Provides for re-timing, re-shaping and regeneration of signals if degradation exceeds the dispersion or optical amplifier noise limits. Provided on a per shelf basis for up to 2.5 Gigabit Ethernet service and on a per circuit, per each location the circuit is regenerated basis for up to 10 Gigabit Ethernet service.

Sub-Rate System
Allows for multiple ports, also called riding circuits, on a single wavelength. /2/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Material formerly appeared on Part 15, Section 3, Sheet 134.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /2/

C. Terms and Conditions

In addition to regulations set forth elsewhere in this Guidebook, the following regulations apply to MON Ring Service:

1. The customer-provided equipment must deliver the data signals for the MON Ring Service transport within the industry specification for the subscribed data services.

2. MON Ring Service provides physical layer transport only. The Company assumes no responsibility for the signals generated by the customer, for the quality of or defects in such signals, for the reception of signals by the customer, or address signaling to the extent addressing is performed by the customer. Error detection and correction of data generated by the customer is the customer's responsibility.

3. The service is considered interrupted when the customer reports a service disruption to the Company and the Company confirms that continuity of its service has been lost.

4. MON Ring Service may have distance limitations based on the services carried and may require routing through central offices based on loss limits between nodes. Services with facility length limitations may not be available on some MON rings, or may not be available between some nodes on certain MON rings.

5. Optical Amplifiers and/or Regenerators may have to be added to an MON Ring Service subsequent to the initial installation.

6. When additional services are added, such installation may cause a service interruption to existing unprotected channels, or a protection switch on protected channels.

7. Where conditions, equipment, and facilities permit, MON Ring Service will be offered in two configurations. Customers can purchase MON Ring with growth capacity up to 16 wavelengths or up to 32 wavelengths. The 32 wavelength system may, at the discretion of the Company, be built as two 16 wavelength systems sharing common fiber and some common equipment. Depending upon the configuration, conversion from a 16 wavelength MON Ring Service to a 32 wavelength MON Ring Service may not be available.

8. The minimum service period for MON Ring Service is 36 months or 60 months.

9. MON Ring Service is provided at the option of the Company where facilities permit. If appropriate facilities are not available, Special Construction charges may apply. /2/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Material formerly appeared on Part 15, Section 3, Sheet 135.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /2/

C. Terms and Conditions (cont'd)

10. Floor space for subsequent shelf growth at a Central Office Node beyond the initial installation will be provided where available, but cannot be guaranteed for subsequent shelf growth beyond the initial installation.

11. Prior to confirming an order for service, the Company will provide a proposed route diagram to the customer.

12. Installation of service will not begin until the customer has accepted the proposed routing by the Company.

13. Channel protection may not be available for all interface types.

14. Conversion from MON Service to MON Ring Service is not available.

15. Conversions from any other lower speed services to MON Ring Service are not available.

16. Where conditions, equipment, and facilities apply, the customer must first order the MON Ring Transport System followed by the MON Ring Channels. When ordering riding services, the customer must first order the MON Ring Transport System, followed by a MON Ring Sub-rate System over which these services will be assigned. When riding services are ordered on a Sub-Rate System, they are represented by different rate elements than those services ordered directly on the MON Ring.

17. Services with time-delay sensitive protocols have facility length limitations and may affect the design/availability of MON Ring Service. (E.g., CPU to CPU communications have a maximum distance limitation of 60 km.) The Company will work cooperatively with the customer to determine if the desired services can operate between the customers designated premises.

18. Neither electrical interfaces nor optical add/drop multiplexing are available with this service.

19. OC-12/OC-12c, Gigabit Ethernet, Fibre Channel (1.0625 Gbps) and FICON™ (1.0625 Gbps) can be ordered directly on MON Ring, or as a riding service on a sub-rate system. Fibre Channel (2.125 Gbps) and FICON™ (2.125 Gbps) can only be ordered directly on MON Ring, and cannot be ordered on a sub-rate system. OC-12, Gigabit Ethernet, Fibre Channel (1.0625 Gbps) and FICON™ (1.0625 Gbps) when ordered on a sub-rate system, are represented by different rate elements than those ordered directly on the MON Ring. /2/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Material formerly appeared on Part 15, Section 3, Sheet 136.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /2/

D. Features

1. Standard Features

MON Ring Service is available in different ring configurations utilizing Central Office Nodes and Customer Premises Nodes. The total number of circuits and total usable bandwidth to the customer depends upon the mix of services ordered and the specific traffic patterns of the customer. The company will determine the appropriate wavelength assignment and the design of the MON Ring.

The minimum configuration would be two customer nodes either at a serving wire center or a customer premise site. If the customer nodes are not in a serving wire center, a central office management site for monitoring is required. An optical amplifier located at a serving wire center can be used as a monitoring site.

A combination of these configurations may be used in a network design depending on the customer's traffic pattern. /2/

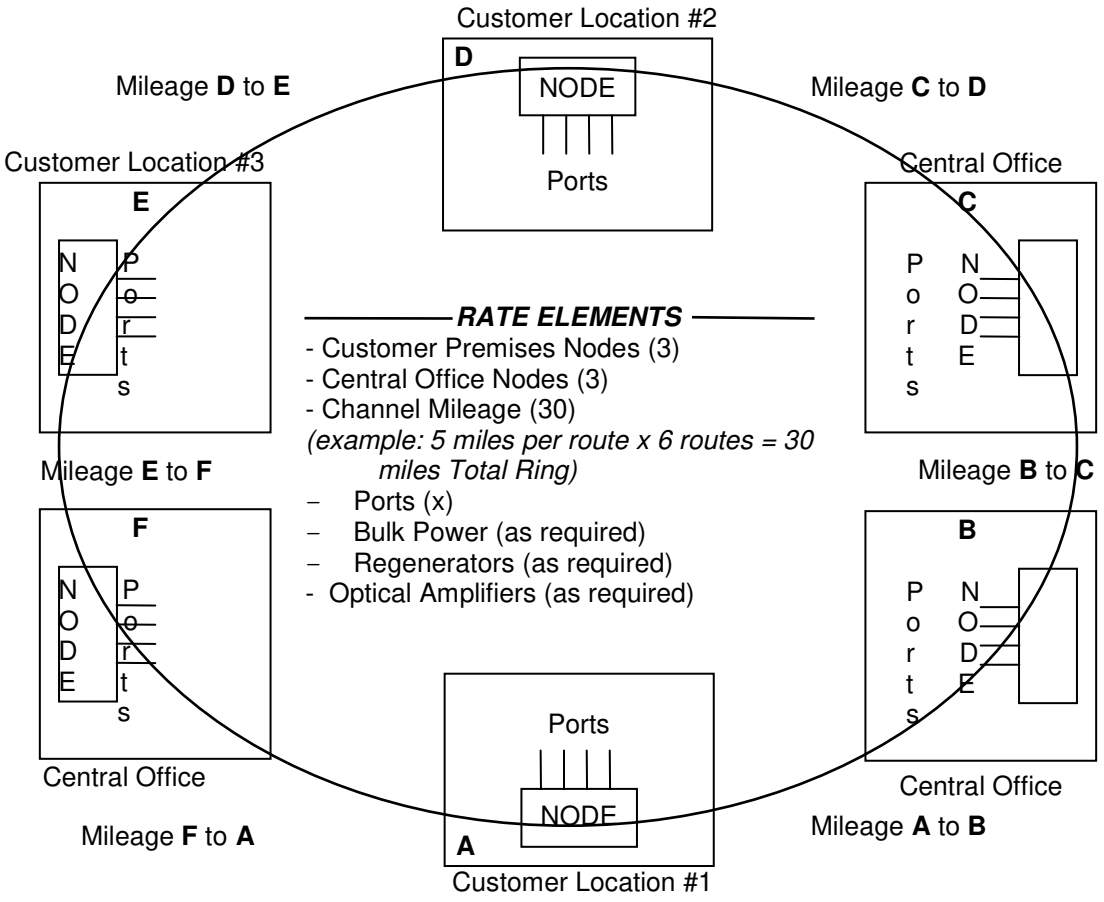
/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Material formerly appeared on Part 15, Section 3, Sheet 137.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /2/

D. Features (cont'd)

1. Standard Features (cont'd)

Diagram of MON Ring



/2/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.

/2/ Material formerly appeared on Part 15, Section 3, Sheet 138.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /2/

D. Features (cont'd)

1. Standard Features (cont'd)

Route Diversity

- MON Ring Service is configured with diversely routed fiber whenever possible. MON Ring Service will be available for protected channels 99.999% of the time and protected channels will switch within 50 milliseconds (not to exceed 2 seconds). Equipment interfaces towards the customer are not protected. Unprotected channels will be lost in the event of a fiber path failure on which the circuit is assigned.

- Routing of fiber may be diversified from the customer's property line to their serving wire center or alternate serving wire center to ensure that loop fibers follow separate paths to the serving central office. In addition, IOF fiber (if applicable) may be diversified to ensure that with any serving wire center Central Office Node, the fibers do not egress and ingress at the same point. In cases where the central office does not have multiple entrance fiber facilities, the section of the fiber from the closest manhole (to the serving wire center) will be routed within the same duct structure.

- At the customer's request, additional protection to the Customer Premises Nodes can be provided via diverse dual entrance facilities. This special request will cause the customer to incur special construction cost. Without this special request, diverse fiber is provided to the closest manhole to the customer location property line. The customer or building owner is responsible for providing conduit designed to meet industry standards and local fire and safety codes from the property line to the building to within the premises. The customer determines route and method of protection inside the premises.

- In the case where dual entrance facilities are not established at the customer premises, facilities routed within the same duct structure from the property line to the building equipment location are not diverse. /2/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Material formerly appeared on Part 15, Section 3, Sheet 139.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /2/

E. Technical References

The customer interfaces to MON Ring Service are as specified in:

Subject	Technical Reference
Ameritech LAN Interconnect Service - Token Ring Interface Specifications	AM TR-NIS-000100
Ameritech LAN Interconnect Service - CSMA/CD Interface Specifications	AM TR-NIS-000104
Ameritech OC-3, OC-12, OC-48 and OC-192 Service Interface Specifications	AM TR-NIS-000111
Ameritech Digital Service Transmission Parameters	AM TR-TMO-000101
Ameritech Service's Network Channel and Network Channel Interface Codes	AM TR-TMO-000080
Ameritech Technical Interface Specifications (ESCON™)	AM TR-NIS-000096 AM TR-NIS-000107
IBM Documentation (ESCON™)	IBM SA22-7202-XX IBM SA23-0394-XX
Fibre Channel (also includes FICON™ and ISC™)	ANSI X3.T9.3
Fast Ethernet	ANSI/IEEE 802.3
GigaBit Ethernet	IEEE 802.3x and z IEEE 802.3ae
D1 Video	ANSI/SMPTE 259M

The Technical References can be obtained from:

APEX Support Team
(734) 523-7348

The Telcordia Technologies Research Publication(s) can be obtained from:

Telcordia Technologies, Inc.
8 Corporate Place, PYA 3A-184
Piscataway, New Jersey 08854-4156 /2/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Material formerly appeared on Part 15, Section 3, Sheet 140.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /2/

F. Prices

1. Service Elements

Description /Billing Code/	Nonrecurring Charge
Administrative Charge	
- per service order /ORCMX/	$125.00
Design and Central Office Connection Charge	
- per riding circuit /NRBCL/	600.00
Customer Connection Charge	
Service Establishment	
- per node /NRBBL/	7,500.00
Subsequent Installation	
- per subsequent shelf /NHCNL/	1,000.00 /2/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Material formerly appeared on Part 15, Section 3, Sheet 141.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /3/

F. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payment *Term Payment Plans* 36 Months	60 Months	Monthly Extension
MON Ring Transport System			
Customer Premises Node (includes first shelf) /F2ND1/	$7,800.00	$6,240.00	$10,920.00
- per subsequent shelf /F2NDS/	5,850.00	4,680.00	8,190.00
Central Office Node (includes first shelf) /F2NC1/	7,800.00	6,240.00	10,920.00
- per subsequent shelf /F2NCS/	5,850.00	4,680.00	8,190.00
Channel Mileage			
- per V&H mile or fraction thereof /1L5XX/	325.00	260.00	455.00
Optical Amplifier (as required)			
- C band (per location) /67QXX/	5,400.00	3,600.00	7,600.00
- L band (per location) /67QSX/[/2/]	5,400.00	3,600.00	7,600.00
Regenerator (as required)			
- up to 2.5 Gbps (per shelf) /V8RXX/	7,500.00	5,000.00	10,500.00
- up to 10 Gbps (per circuit, per each location) /V8R2C/	15,000.00	10,000.00	21,000.00
Bulk Power (as required)			
- per first shelf (shelves 1-4) /CBVDX/	2,000.00	1,600.00	2,600.00
- per subsequent shelf (shelves 5-8) /CBVDS/	1,600.00	1,300.00	2,100.00 /3/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.

/2/ Available where facilities and equipment permit. /3/

/3/ Material formerly appeared on Part 15, Section 3, Sheet 142.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /2/

F. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payment *Term Payment Plans* 36 Months	60 Months	Monthly Extension	
MON Ring Channels				
Ports				
- per port/per circuit terminating location				
ETR/CLO™				
- unprotected channel /POYKW/	$975.00	$750.00	$1,400.00	
FICON™ (1.0625 Gbps)				
- unprotected channel /POYMW/	975.00	750.00	1,400.00	
- protected channel /POYMP/	1,950.00	1,500.00	2,800.00	
FICON™ (2.125 Gbps)				
- unprotected channel /POYWW/	1,700.00	1,300.00	2,400.00	
- protected channel /POYWP/	3,400.00	2,600.00	4,800.00	
ISC-1™				
- unprotected channel /POYJW/	3,250.00	1,250.00	4,600.00	
- protected channel /POYJP/	3,600.00	2,500.00	5,000.00	
ISC-3™				
- unprotected channel /POY9W/	3,750.00	2,500.00	5,000.00	
- protected channel /POY9P/	7,500.00	5,000.00	10,000.00	/2/
Fibre Channel (1.0625 Gbps)				
- unprotected channel /POYNW/	1,200.00	900.00	1,700.00	/3/
- protected channel /POYNP/	2,400.00	1,800.00	3,400.00	
Fibre Channel (2.125 Gbps)				
- unprotected channel /POYYW/	1,700.00	1,300.00	2,400.00	
- protected channel /POYYP/	3,400.00	2,600.00	4,800.00	
Gigabit Ethernet				
- unprotected channel /POYLW/	1,200.00	900.00	1,700.00	
- protected channel /POYLP/	2,400.00	1,800.00	3,400.00	/3/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Material formerly appeared on Part 15, Section 3, Sheet 143.
/3/ Material formerly appeared on Part 15, Section 3, Sheet 144.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /4/

F. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payment *Term Payment Plans* 36 Months	60 Months	Monthly Extension
MON Ring Channels (cont'd)			
Ports (cont'd)			
- per port/per circuit terminating location (cont'd)			
10 Gigabit Ethernet (WAN PHY)			
- unprotected channel /POYTW/	$15,000.00	$12,500.00	$21,000.00
- protected channel /POYTP/	20,000.00	16,700.00	28,000.00
10 Gigabit Ethernet (LAN PHY)			
- unprotected channel /POYUW/	15,375.00	12,815.00	21,525.00
- protected channel /POYUP/	20,500.00	17,120.00	28,700.00
SONET OC-12/OC-12c			
- unprotected channel /POYFW/	1,300.00	1,000.00	1,900.00
- protected channel /POYFP/	2,600.00	2,000.00	3,700.00
SONET OC-48/OC-48c[/2/]			
- unprotected channel /POYGW/	4,400.00	3,700.00	6,000.00
- protected channel /POYGP/	6,600.00	5,560.00	9,000.00
SONET OC-192/OC-192c			
- unprotected channel /POYOW/	15,000.00	12,500.00	21,000.00
- protected channel /POYOP/	20,000.00	16,700.00	28,000.00 /3/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.

/2/ Available where facilities and equipment permit. /3/

/3/ Material formerly appeared on Part 15, Section 3, Sheet 145.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /4/

F. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payment *Term Payment Plans* 36 Months	60 Months	Monthly Extension	
MON Ring Channels (cont'd)				
Ports (cont'd)				
- per port/per circuit terminating location (cont'd)				
GigE/FC/FICON™ Sub-Rate System				
- unprotected channel /POY1W/	$875.00	$700.00	$1,140.00	
- protected channel /POY1P/	1,750.00	1,400.00	2,280.00	
GigE Riding Circuit[/2/]				
- unprotected channel /POY4W/	500.00	400.00	650.00	
- protected channel /POY4P/	1,000.00	800.00	1,300.00	
Fibre Channel (1.065 Gbps) Riding Circuit[/2/]				
- unprotected channel /POY6W/	500.00	400.00	650.00	
- protected channel /POY6P/	1,000.00	800.00	1,300.00	
FICON™ (1.065 Gbps) Riding Circuit[/2/]				
- unprotected channel /POY7W/	400.00	320.00	480.00	
- protected channel /POY7P/	800.00	640.00	960.00	/4/
ESCON™ [/3/]				
- unprotected channel /PWY1W/	1,300.00	1,000.00	1,900.00	/5/
- protected channel /PWY1P/	2,600.00	2,000.00	3,700.00	
Fast Ethernet[/3/]				
- unprotected channel /PWY2W/	1,300.00	1,000.00	1,900.00	
- protected channel /PWY2P/	2,600.00	2,000.00	3,700.00	
DS1 Video Circuit[/3/]				
- unprotected channel /PWY3W/	1,300.00	1,000.00	1,900.00	
- protected channel /PWY3P/	2,600.00	2,000.00	3,700.00	/5/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Available only when ordered with GigE/FC/FICON™ Sub-Rate System. /4/
/3/ Available only where facilities and equipment permit beginning November 30, 2005. /5/
/4/ Material formerly appeared on Part 15, Section 3, Sheet 146.
/5/ Material formerly appeared on Part 15, Section 3, Sheet 147.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /4/

F. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payment *Term Payment Plans* 36 Months	60 Months	Monthly Extension	
MON Ring Channels (cont'd)				
Ports (cont'd)				
- per port/per circuit terminating location (cont'd)				
DVB-ASI Video[/2/]				
- unprotected channel /POY8W/	$2,100.00	$1,650.00	$3,075.00	
- protected channel /POY8P/	4,200.00	3,300.00	5,775.00	
SONET OC-3/OC-3c[/2/]				
- unprotected channel /PWY4W/	1,300.00	1,000.00	1,900.00	
- protected channel /PWY4P/	2,600.00	2,000.00	3,700.00	/4/
SONET OC-48 Sub-Rate System[/2/]				/5/
- unprotected channel /POYRW/	3,500.00	2,750.00	4,250.00	
- protected channel /POYRP/	7,000.00	5,500.00	8,500.00	
SONET OC-48/OC-48c Riding Circuit[/2//3/]				
- unprotected channel /POYZW/	1,900.00	1,200.00	2,800.00	
- protected channel /POYZP/	3,800.00	2,400.00	5,600.00	/5/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.

/2/ Available only where facilities and equipment permit beginning November 30, 2005. /4/

/3/ Available only when ordered with OC-48 Sub-Rate System beginning November 30, 2005. /5/

/4/ Material formerly appeared on Part 15, Section 3, Sheets 147.

/5/ Material formerly appeared on Part 15, Section 3, Sheets 148.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /6/

F. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payment *Term Payment Plans* 36 Months	60 Months	Monthly Extension
MON Ring Channels (cont'd)			
Ports (cont'd)			
- per port/per circuit terminating location (cont'd)			
Sub-Rate System[/2/]			
- unprotected channel /POYSW/	$1,300.00	$1,000.00	$1,900.00
- protected channel /POYSP/	2,600.00	2,000.00	3,700.00
ESCON™ Riding Circuit[/2//3//4/]			
- unprotected channel /POYHW/	100.00	100.00	150.00
- protected channel /POYHP/	100.00	100.00	150.00
Fast Ethernet Riding Circuit[/2//3/]			
- unprotected channel /POYCW/	325.00	250.00	400.00
- protected channel /POYCP/	500.00	400.00	650.00
D1 Video Riding Circuit[/2//3/]			
- unprotected channel /POYVW/	100.00	100.00	150.00
- protected channel /POYVP/	100.00	100.00	150.00
DVB-ASI Video Riding Circuit[/2//3/]			
- unprotected channel /PWY5W/	100.00	100.00	100.00
- protected channel /PWY5P/	100.00	100.00	100.00
SONET OC-3/OC-3c Riding Circuit[/2//3//5/]			
- unprotected channel /POYEW/	100.00	100.00	150.00
- protected channel /POYEP/	100.00	100.00	150.00 /6/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Available where facilities and equipment permit. /6/
/3/ Available only when ordered with a Sub-Rate System.
/4/ Also available with ESCON Sub-Rate System.
/5/ Also available with SONET OC-3/OC-12 Sub-Rate System. /6/
/6/ Material formerly appeared on Part 15, Section 3, Sheet 149.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /4/

F. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payment *Term Payment Plans* 36 Months	60 Months	Monthly Extension
MON Ring Channels (cont'd)			
Ports (cont'd)			
- per port/per circuit terminating location (cont'd)			
ESCON™ Sub-Rate System[/2/]			
- unprotected channel /POY2W/	$1,500.00	$1,125.00	$1,950.00
- protected channel /POY2P/	3,000.00	2,250.00	3,900.00
OC-3/OC-12 Sub-Rate System[/2/]			
- unprotected channel /POY3W/	1,000.00	750.00	1,300.00
- protected channel /POY3P/	2,000.00	1,500.00	2,600.00
OC-12/OC-12c Riding Circuit[/2//3/]			
- unprotected channel /POY5W/	500.00	375.00	700.00
- protected channel /POY5P/	1,000.00	750.00	1,400.00 /4/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Available only where facilities and equipment permit. /4/
/3/ Available only when ordered with OC-3/OC-12 Sub-Rate System. /4/
/4/ Material formerly appeared on Part 15, Section 3, Sheet 150.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /2/

F. Prices (cont'd)

2. Payment Plans

- Term Payment Plans

  MON Ring Service TPP provides the customer with discounted rates for a 36 or 60-month period.

  After the expiration of 25 months of a 36-month TPP term or 42 months of a 60-month TPP term, any MON Ring components added to the existing service configuration provided under that TPP will be billed under monthly extension rates.

  Refer to Term Payment Plans in Part 15, Section 1.

- Single Payment Option (SPO)

  A single payment option is available for this service. Refer to Term Payment Plans in Part 15, Section 1 for calculating Single Payment Options.

3. Termination Charges

Termination Charges will apply to services terminated prior to the contracted period. For purposes of applying Termination Charges, all rate elements making up a MON Ring service are subject to Termination Charges.

If during the duration of the TPP, the customer wishes to rearrange or move a Customer Premises Node, a Termination Charge will apply.

Refer to Termination Charges in Part 15, Section 1 for calculating Termination Charges. /2/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Material formerly appeared on Part 15, Section 3, Sheet 151.

10. Multi-Service Optical Network (MON) Ring Service[/1/] (cont'd) /2/

F. Prices (cont'd)

4. Credit Allowance

A credit allowance will be given for interruptions of service. An interruption of service will start when an inoperative service is reported to the Company and end when the service is operative.

Any protected service interruption of greater than 10 consecutive seconds as a result of a failure on the protected portion of the circuit will result in a credit equal to one month's bill for the individual port-to-port connections involved.

If the interruption occurs on an unprotected portion of the circuit, normal terms and conditions for credit allowances will apply.

In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element.

Refer to Credit Allowance in Part 15, Section 1 for calculating Credit Allowances. /2/

/1/ Effective December 1, 2012, Multi-Service Optical (MON) Ring Service is not available for new installations. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Payment Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.
/2/ Material formerly appeared on Part 15, Section 3, Sheet 152.

11. GIGAMAN® SERVICE /1/

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)

A. Description /1/

GigaMAN Service is a service which provides the transmission of data at a discrete bit rate of 1 Gbps, in Ethernet format. This service can be used to connect customer-designated premises in a Node-to-Node configuration. Within a single network, one or more channels may be provided.

GigaMAN 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 GigaMAN Service include LAN-to-LAN connectivity, CAD/CAM file transfer, telemedicine and business continuity transport.

B. Definitions

Channel Mileage (CM)
Provides for the transmission facilities between the serving wire centers associated with the designated customer premises.

Repeater (RPTR)
A repeater (circuit regenerator) will be used to extend the transmission of GigaMAN 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 purpose.

Node Termination (NT)
Provides for the communications path between the customer-designated premises and the serving wire center of that premise, or between two customer-designated premises.

Wire Center Termination (WCT)
Provides for the termination of digital transmission facilities between two or more serving wire centers. These transmission facilities are categorized as channel mileage, as described above. /1/

GigaMAN is a registered trademark of AT&T Intellectual Property /1/ (C)
/1/ Material formerly appeared in Part 15, Section 4, Sheet 1.

11. GIGAMAN® SERVICE (cont'd) /1/

C. Terms and Conditions

In addition to regulations set forth elsewhere in this Guidebook, the following regulations apply to GigaMAN Service:

1. The customer provided equipment (CPE) must deliver the data signal for the GigaMAN transport within the industry specification for the subscribed data service. See Paragraph E. - *Technical References.*

2. GigaMAN provides physical layer transport only. The Company assumes no responsibility for the through transmission of signals generated by CPE, for the quality of or defects in such transmission, for the reception of signals by CPE, or address signaling to the extent addressing is performed by CPE. Error detection and correction of data generated by CPE is the customer's responsibility.

3. GigaMAN is designed to provide connectivity at the discrete bit rate of 1 Gbps. The service is considered interrupted when the customer reports to the Company and the Company confirms that continuity has been lost.

4. GigaMAN Service is provided at the option of the Company where facilities permit. If appropriate facilities are not available, *Special Construction* charges may apply.

5. Node terminations are not allowed in Company wire centers.

6. Interoffice mileage is calculated using the V and H coordinate method described in Part 15, Section 1 of this Guidebook. /1/

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

11. GIGAMAN® SERVICE (cont'd) /1/

C. Terms and Conditions (cont'd)

7. 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). GigaMAN circuits provisioned prior to November 19, 2003 may not have required a repeater.

8. Route diversity options are available where facilities exist. If appropriate facilities do not exist, Special Construction charges may apply. Route diversity is only available to customers with service installed after November 19, 2003.

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

10. Channel Mileage charges are applicable on both paths of the GigaMAN Service when any of the Protection Options are ordered.

11. If Protection Options are added to an existing GigaMAN circuit that was installed after November 19, 2003, a temporary service interruption will result as the new protected circuit must be re-designed and re-installed. Termination Charges will not apply for the circuit redesign (see *Term Pricing Plan* following for requirements). 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). Protection Options are contingent on availability of equipment and fiber facilities from premise to premise. Other Special Construction charges, as necessary, may apply.

12. GigaMAN Service is not available in a meet-point billing arrangement involving other Carriers. /1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 3.

11. GIGAMAN® SERVICE (cont'd) /1/

D. Features

1. Standard Features

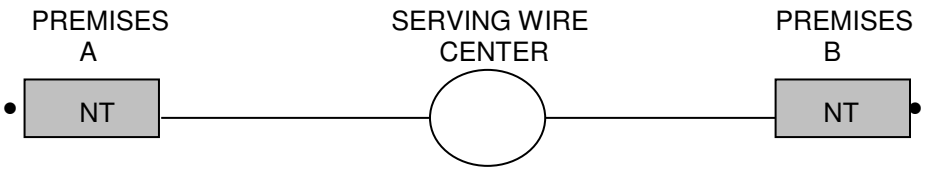
All basic service configurations provide full duplex transmission. There is one type of GigaMAN Service configuration: Node-to-Node Service.

Node-to-Node Service

A Node-to-Node configuration connects two customer-designated premises either inter- or intra-wire center.

The following diagram depicts a Node-to-Node configuration connecting two customer-designated premises served from the same wire center.

Node-to-Node Configuration
(Intra-Wire Center)



NT = Node Termination

Applicable service elements are:
- Node Termination (two applicable) /1/

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

11. GIGAMAN® SERVICE (cont'd) /1/

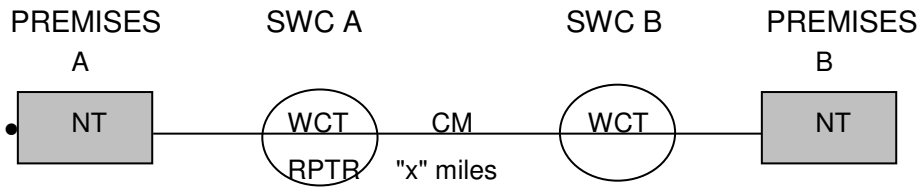
D. Features (cont'd)

1. Standard Features (cont'd)

Node-to-Node Service (cont'd)

The following diagram depicts a Node-to-Node configuration connecting two customer-designated premises with serving wire centers located "x" miles apart.

Node-to-Node Configuration ("x" miles apart)
(Inter-Wire Center)



NT = Node Termination
WCT = Wire Center Termination
CM = Channel Mileage
SWC = Serving Wire Center
RPTR = Repeater (where required)

Applicable service elements are:

- Node Termination (two applicable)
- Wire Center Termination (two applicable)
- Channel Mileage ("x" miles)
- Repeater (where required)

/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 5.

11. GIGAMAN® SERVICE (cont'd) /2/

D. Features (cont'd)

2. Optional Features

Diversity and Protection Options are available where facilities exist. If appropriate facilities do not exist, Special Construction charges may apply. End-to-end diversity can be achieved by coupling Alternative Wire Center Diversity with Inter-Wire Center Diversity, in those instances where each end of a circuit is served out of different serving wire centers. Diversity and Protection Options are only available to customers with service installed after November 19, 2003. In addition to charges for the various Protection Options, normal charges for the Node Termination, Wire Center Termination and Channel Mileage will apply. Protection Options provide additional levels of reliability to GigaMAN Service. 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 GigaMAN circuit cannot include Protection at only one end (excluding Power Protection which can be at just one end, or both ends, of the circuit).

The following options are available for Diversity:

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

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/1/
- Power Protection /2/

/1/ Inter-Wire Center Path Protection must be ordered in conjunction with an Equipment Protection option at each end of the circuit. /2/ /2/

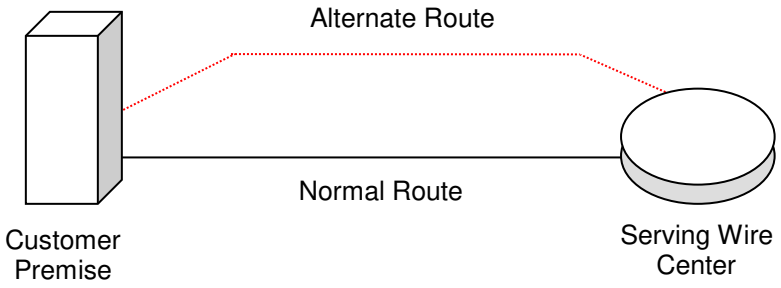
/2/ Material formerly appeared in Part 15, Section 4, Sheet 6.

11. GIGAMAN® SERVICE (cont'd) /1/

D. Features (cont'd)

2. Optional Features (cont'd)

Local Channel Diversity
Local Channel Diversity provides for a transmission path between a designated customer premise 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 node termination channels will be provisioned over the standard route and one or more node termination 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 premise, at the customer's expense.



/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 7.

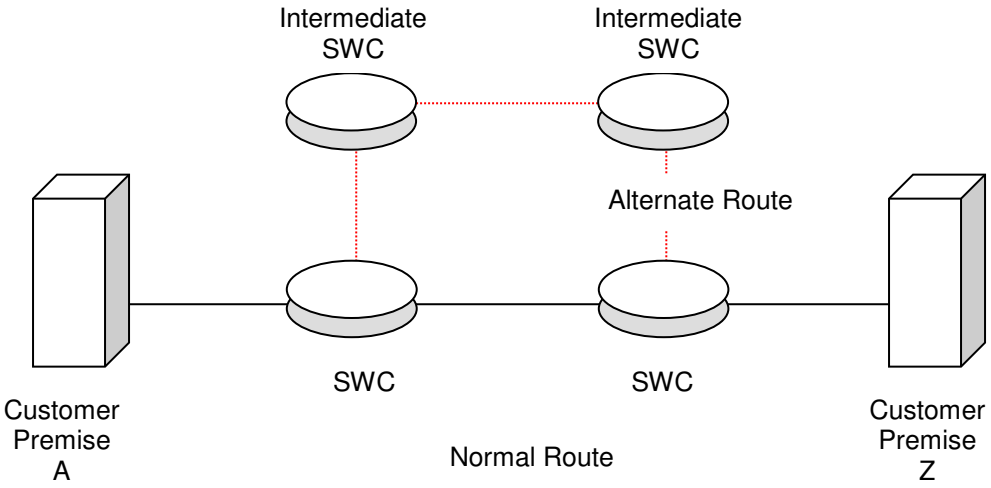
11. GIGAMAN® SERVICE (cont'd) /1/

D. Features (cont'd)

2. Optional Features (cont'd)

Inter-Wire Center Diversity
Inter-Wire Center Diversity arrangements presume that each end of a GigaMAN node termination channel is served out of a different serving wire center (SWC). This arrangement provides a transmission path for GigaMAN node termination 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 GigaMAN 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 premise, at the customer's expense.



/1/

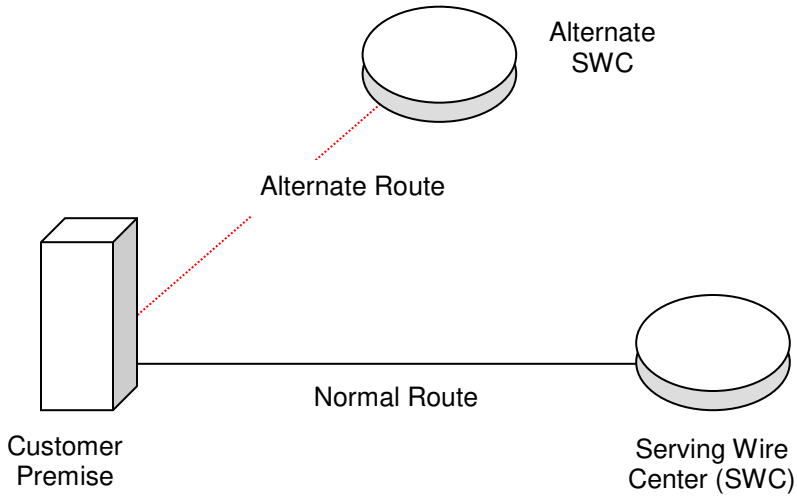
/1/ Material formerly appeared in Part 15, Section 4, Sheet 8.

11. GIGAMAN® SERVICE (cont'd) /1/

D. Features (cont'd)

2. Optional Features (cont'd)

Alternate Wire Center Diversity
Alternate Wire Center Diversity is for the local loop only. It provides a node termination transmission path for GigaMAN 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 customers designated premise that is capable of providing GigaMAN Service over the alternate route. Alternate Wire Center Diversity does not require the purchase of two GigaMAN Services by (or for the benefit of) the same customer, nor does it require the customer to have an existing GigaMAN circuit operating over the normal (or standard) route to the normal (or standard) serving wire center. With this arrangement, one or more node termination 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 premise, at the customer's expense.



/1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 9.

11. GIGAMAN® SERVICE (cont'd) /1/

D. Features (cont'd)

2. Optional Features (cont'd)

Equipment Only Protection
Equipment Only Protection offers a network design where one GigaMAN 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 premise 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.

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 GigaMAN (1 Gbps) signal will be routed over one fiber pair of the protected circuit from the customer's premise to the normal serving wire center, and a duplicate GigaMAN (1 Gbps) 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 premise, at the customer's expense. /1/

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

11. GIGAMAN® SERVICE (cont'd) /1/

D. Features (cont'd)

2. Optional Features (cont'd)

Equipment Plus Fiber Path Protection (cont'd)

Equipment Plus Fiber Path Protection, with… (cont'd)

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 premise, at the customer's expense.

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. The customer will receive Equipment Only Protection for an inter-office segment where facilities are not available. 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. /1/

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

11. GIGAMAN® SERVICE (cont'd) /1/

D. Features (cont'd)

2. Optional Features (cont'd)

Power Protection
Power Protection provides customers with battery back-up for up to eight (8) hours to maintain GigaMAN 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 GigaMAN Service will result in a temporary service interruption.

E. Technical References

The customer interface to GigaMAN Service is as specified in:

Subject	Technical Reference
Ethernet Standards for the SBC Local Exchange Companies	SBC-TP-76412-000
Network Performance Parameters for Dedicated Digital Services – Definitions and Measurements	ANSI T1.503-2002

The Technical Reference 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 /1/

/1/ Material formerly appeared in Part 15, Section 4, Sheets 12 and 13.

11. GIGAMAN® SERVICE (cont'd) /3/

F. Prices

1. Service Elements

Description/Billing Code/	Nonrecurring Charge
Administrative Charge/1/	
- per service order /ORCMX/	$140.00
Design and Central Office Connection Charge/1/	
- per circuit /NRBCL/	230.00
Customer Connection Charge/1/	
- per premises node and wire center terminations /NRBBL/	755.00
Protection Options	
Per terminating end	
- Equipment Only /CPAEX/	625.00
- Equipment Plus Fiber Path Protection, with…	
Alternate Wire Center Path Protection /CPAFX/, or	1,400.00
Local Channel Path Protection /CPAGX/	1,225.00
Per rack or cabinet	
- Power Protection /VBBGX/	475.00
Per circuit	
- Inter-Wire Center Path Protection/2/ /CPAHX/	625.00 /3/

/1/ Nonrecurring charges will be waived for those customers selecting the 36 or 60 month Term Payment Plan (TPP) period for new service. /3/
/2/ Inter-Wire Center Path Protection must be ordered in conjunction with an Equipment Protection option at each end of the circuit /3/
/3/ Material formerly appeared in Part 15, Section 4, Sheet 14.

11. GIGAMAN® SERVICE (cont'd) /2/

F. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payment *Term Payment Plans* 12 Months	24 Months	36 Months	60 Months	Monthly Extension
Node Termination					
- per point of termination /N2TDX/	$3,300.00	$3,100.00	$2,850.00	$2,500.00	$3,800.00
Wire Center Termination					
- per termination /CTJ/	125.00	110.00	100.00	50.00	125.00
Channel Mileage					
- per inter-wire center mile /3LN5S/	125.00	115.00	100.00	75.00	125.00
Repeater					
- each /VU4/	2,400.00	1,700.00	1,150.00	850.00	2,500.00
- each /M1RGX/[/1/]	2,400.00	N/A	1,150.00	850.00	2,500.00
Diversity Options					
- Local Channel /CPALX/	750.00	750.00	750.00	750.00	750.00
- Inter-Wire Center /CPATX/	500.00	500.00	500.00	500.00	500.00
- Alternate Wire Center /CPAAX/	1,200.00	1,200.00	1,200.00	1,200.00	1,200.00 /2/

/1/ Effective September 24, 2003, service arrangements utilizing a legacy mid-span repeater (/M1RGX/) are grandfathered and no longer available for new customers. Should existing customers utilizing a legacy mid-span repeater disconnect (or relocate one end of) their service, the legacy mid-span repeater will no longer be available. The new equipment platform must be used in those scenarios. /2/ /2/

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

11. GIGAMAN® SERVICE (cont'd) /2/

F. Prices (cont'd)

1. Service Elements (cont'd)

Description /Billing Code/	Monthly Payment *Term Payment Plans* 12 Months	24 Months	36 Months	60 Months	Monthly Extension	
Protection Options						
Per terminating end						
- Equipment Only /CPAEX/	$1,375.00	$1,225.00	$1,050.00	$900.00	$1,500.00	
- Equipment Plus Fiber Path Protection, with…						
Alternate Wire Center Path Protection /CPAFX/	2,050.00	1,840.00	1,600.00	1,400.00	2,460.00	
Local Channel Path Protection /CPAGX/	1,825.00	1,650.00	1,425.00	1,225.00	2,190.00	
Per rack or cabinet						
- Power Protection /VBBGX/	625.00	525.00	480.00	435.00	700.00	
Per circuit						
- Inter-Wire Center Path Protection[/1/] /CPAHX/	375.00	200.00	150.00	100.00	475.00	/2/

/1/ Inter-Wire Center Path Protection must be ordered in conjunction with an Equipment Protection option at each end of the circuit. /2/ /2/

/2/ Material formerly appeared in Part 15, Section 4, Sheet 16.

11. GIGAMAN® SERVICE (cont'd) /1/

F. Prices

2. Payment Plan

Term Payment Plans
GigaMAN Service is only available under the Term Payment Plan (TPP) whereby customers must select either a 12, 24, 36 or 60 month period. After the selected Term Payment Plan period is satisfied, the monthly extension price will apply unless a new TPP is selected. Refer to *Term Payment Plans* in Part 15, Section 1. Customers re-negotiating an existing term payment plan contract expiring after November 19, 2003 will be required to migrate to the new equipment platform.

Single Payment Option (SPO)
A single payment option is available for this service. Refer to *Term Payment Plans* in Part 15, Section 1 for calculating Single Payment Options.

Deferred Payment Option (DPO)
A deferred payment option is not available for this service.

3. Termination Charges

Termination Charges will apply to service terminated prior to the contracted period. Refer to *Termination Charges* in Part 15, Section 1 for calculating Termination Charges.

Effective September 24, 2003, the Company migrated to a new equipment platform in support of GigaMAN Service. As of September 24, 2003, customers who request a conversion from the legacy GigaMAN platform to the new equipment platform will be allowed to do so under the following conditions:

- The customer must issue a disconnect order for their legacy GigaMAN Service and place a service order for GigaMAN Service using the new equipment platform. Termination Charges for the legacy service will be waived. Standard nonrecurring charges to install GigaMAN Service using the new equipment platform will apply.

- The term of the new contract must be equal to or greater than the remaining time left on the legacy GigaMAN contract.

Migration is contingent on availability of fiber from premise to premise. Other Special Construction charges, as necessary, may apply. /1/

/1/ Material formerly appeared in Part 15, Section 4, Sheet 17.

11. GIGAMAN® SERVICE (cont'd) /1/

F. Prices (cont'd)

3. Termination Charges (cont'd)

For circuits installed after November 19, 2003, customers will be permitted to move one end of a GigaMAN 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 GigaMAN Service at the new location. Termination Charges for the existing location will be waived. Standard nonrecurring charges to install GigaMAN 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 GigaMAN contract.

- The existing GigaMAN 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 GigaMAN Service with 1-year contracts will not be eligible for this Moves option.

Moves are contingent on availability of fiber from premise to premise. Other Special Construction charges, as necessary, may apply. /1/

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

11. GIGAMAN® SERVICE (cont'd) /1/

F. Prices (cont'd)

3. Termination Charges (cont'd)

Customers will be permitted to add Protection Options to existing GigaMAN Service that was installed after November 19, 2003, without incurring Termination Charges, 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. Termination Charges for the existing circuit will be waived. Standard nonrecurring charges to install the newly protected GigaMAN Service will apply. (the conditions described here do not apply to Power Protection added to an existing GigaMAN 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 GigaMAN contract. (the conditions described here do not apply to Power Protection added to an existing GigaMAN circuit).

- The existing GigaMAN 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 GigaMAN Service with 1-year contracts will not be eligible for this option. (the conditions described here do not apply to Power Protection added to an existing GigaMAN circuit).

Addition of Protection Options are contingent on availability of equipment and fiber facilities from premise to premise. Other Special Construction charges, as necessary, may apply. /1/

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

11. GIGAMAN® SERVICE (cont'd) /1/

F. Prices (cont'd)

3. Termination Charges (cont'd)

For service installed after July 10, 2007, customers will be permitted to upgrade to a higher-speed service provided by the Company, without incurring Termination Charges, given the following conditions are met:

- an upgrade is considered an increase in speed or capacity when comparing GigaMAN Service to the new service.

- the customer must issue a disconnect order for the existing GigaMAN 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 GigaMAN Service.

- the existing GigaMAN Service must have been in service for a minimum period of 12 months for a 24-month contract, 15 months for a 36-month contract or 18 months for a 60-month contract. Existing GigaMAN Service with 12-month contracts will not be eligible for this Upgrade option.

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. /1/

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

11. GIGAMAN® SERVICE (cont'd) /1/

F. Prices (cont'd)

4. Credit Allowance

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this Guidebook or in the event that the protective controls applied by the Company result in the complete loss of service by the customer. An interruption period starts when an inoperative service is reported to the Company and the Company confirms that continuity has been lost, and ends when the service is operative.

In case of an interruption to service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100% of the applicable monthly rates.

The Company's failure to provide or maintain services under this Guidebook shall be excused by force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control. /1/

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

11. GIGAMAN® SERVICE (cont'd) /1/

F. Prices (cont'd)

4. Credit Allowance (cont'd)

Protection Options

A Service Level Agreement (SLA) is offered with fully-protected GigaMAN Service, which provides the customer with a performance commitment that includes a service credit if the service does not perform as described. An SLA of 99.999% Service Availability performance is offered on a GigaMAN circuit with Protection (defined as Equipment Plus Fiber Path Protection for every segment of the circuit). Service Availability will be determined using unavailable seconds as defined in ANSI T1.503-2002 (see *Technical References*).

- SLAs are applicable to customers who purchase Equipment Plus Fiber Path Protection with Alternate Wire Center Path Protection or Equipment Plus Fiber Path Protection with Local Channel Path Protection on both ends of a circuit (both local channels), as well as Inter-Wire Center Path Protection, when applicable.
- If this SLA is not met, or if there is any single event of unavailability of service of 10 seconds or more, the customer will be entitled to a credit equal to 100% of the monthly rate for the circuit. Only one such credit in a billing period will apply.
- In order to qualify for this credit, the event causing the unavailability must be determined by the Company to be in its network and the failure occurred in that part of the service with Protection.
- SLA adjustments are not available in the event of a cable cut in any unprotected portion of the GigaMAN Service fiber path or due to customer-requested modifications to the service that may require down time. Routine maintenance is not counted against unavailability.
- The customer is responsible for notifying the Company when the service parameter within the calendar month falls below the committed level.
- The customer must request a service credit within 25 calendar days after the end of the month when the unavailability event occurred. /1/

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

CHANNELS /1/

Service Availability (N)
Effective June 30, 2021, Analog Private Line Services will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue these services on or after June 30, 2024.

The following services are covered by this *Availability* paragraph: Channels (Series 1000, 2000, 3000 and 10000), Customer Operating Center Service, Channel Conditioning and Signaling Arrangements. (N)

1.1 General /1/

1.1.1 Classification of Channels

Analog Channels
Facilities consisting of channels, channel terminals and channel arrangements are classified by series and further classified within each series by types. The various series and types are described in terms of circuit characteristics and use.

Digital Channels
Facilities consisting of channels employing isochronous transmission at a speed of 1.544 Mbps.

Facilities consisting of channel terminations employing synchronous speeds of 2.4, 4.8, 9.6 and 56 Kilobits (Kbps) per second.

1.1.2 Mileage Measurement

A. Reserved

B. Mileage for a Type 1002AA channel is determined as set forth in 1.2.4.D.

C. Interexchange Channel

The interexchange mileage for Series 1000, 2000 and 3000 channels is determined as follows:

1. Two Point Service

The rate mileage is the airline distance between the rate centers of the service points determined in accordance with the Mileage Calculation Using V & H Coordinates procedure set forth in Part 15, Section 1. Rate center V & H coordinates are contained in Part 9, Section 2. /1/

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

CHANNELS (cont'd) /1/

1.1 General (cont'd)

1.1.2 Mileage Measurement (cont'd)

C. Interexchange Channel (cont'd)

2. Multipoint Service

a. For connection of customer-provided terminal equipment or communications systems, the rate mileage is the combination, specified by the customer, of two point mileages determined in the same manner as for two point services.

b. All others

The rate mileage is the sum of two point mileages determined in the same manner as for two point services using the shortest continuous airline measurement connecting the rate centers.

3. Each interexchange channel connected to a switching arrangement is considered as a separate channel for which the interexchange mileage is independently computed. /1/

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

CHANNELS (cont'd) /1/

1.1 General (cont'd)

1.1.2 Mileage Measurement (cont'd)

D. Interoffice Channels - Series 1000, 2000 and 3000

1. The interoffice rate mileage is the airline distance between central offices (wire centers) of the service points determined in accordance with the Mileage Calculation Using V & H Coordinates procedure set forth in Part 15, Section 1. Central office/wire center V & H coordinates are set forth in the National Exchange Carrier Association (NECA) Tariff FCC No. 4.

2. Where service points are located in more than two central office areas, the interoffice rate mileage is the sum of the two point interoffice rate mileages using the shortest continuous airline measurement connecting the central offices.

E. Local Channels - Series 1000, 2000 and 3000

1. For a local channel, a local channel charge applies in lieu of mileage, except as set forth in 2 following, and such charge is set forth in 1.2.4.B following.

2. For a local channel associated with an interexchange channel for a Type 1002AA channel, mileage is determined as set forth in 1.2.4.D.

F. Local Channel - High Capacity Transport Service

Local Channel Mileage is the airline distance between the customer's premises and the serving central office.

G. Interoffice Channel - High Capacity Transport Service

Interoffice Channel Mileage is the airline distance between central offices.

H. Channel Mileage - Basic Digital Service

Channel mileage is the airline distance between central offices.

I. Channel Mileage - Direct Digital Service

Channel mileage is the airline distance from the DDS hub to the serving central office. /1/

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

CHANNELS (cont'd) /1/

1.1 General (cont'd)

1.1.3 Continuous property locations

A. Buildings located on separate plots of ground and occupied by various customers shall be treated as being on continuous property, when such plots are situated so as to constitute continuous property were they occupied by a single customer. In such cases, conduit shall be provided and maintained in its entirety between buildings by the customer or another person, such as a building owner, contractor, etc.

B. Whenever the Company's general distributing plant is used by the customer to connect terminations or stations within a building or on the same continuous property the stations or terminations are considered to be on non-continuous property for purposes of rate and charge applications.

1.1.4 Joint Use Arrangement

A. Joint use arrangements are offered in connection with private line services furnished on a twenty-four hour per day, seven day per week basis for private line voice, teletypewriter, data transmission or remote metering, supervisory control and miscellaneous signaling purposes under the provisions of 1.2.1 through 1.2.4 for

1. Series 1000 channels and equipment (except Type 1002AA)

2. Series 2000 channels and equipment

3. Series 3000 channels and equipment

Joint use arrangements are not offered in connection with such private line services when those services are furnished for use in connection with composite data service.

B. A joint user of a private line service must have a local channel and station on such service located on his premises, except that such requirement does not apply to a joint user of private line service with respect to his use of additional channels created by the customer from the private line in accordance with 2.2.5.B, provided such joint user has a station on a channel connected under the provisions of Part 2, Section 9 of P.U.C.O. Tariff No. 20 to the additional channel created by the customer.

C. The customer shall be solely responsible for the manner in which the joint use of the service will be allocated. Applications for service and requests involving additions, rearrangements, relocations, modifications or discontinuance of service will be accepted by the Company only from the customer. /1/

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

CHANNELS (cont'd) /1/

1.1 General (cont'd)

1.1.4 Joint Use Arrangement (cont'd)

D. Where a customer requests that his service be arranged for joint use, the rates and charges for such service shall be determined as provided in this Guidebook (and P.U.C.O. Tariff No. 20) and, in addition, the following monthly rates will apply:

	Monthly Rate	USOC
Each service arranged for joint use, per joint user	$16.75	JNP
Each local channel used to meet the communications requirements of a joint user	22.20	JNS

E. All charges for the service, including the additional charges for the joint use arrangement and for local channels furnished for the joint users as part of the private line service, will be computed as though the service were to be billed to the customer. The customer and each joint user will be billed for the components of the service which are furnished exclusively to each of them for his individual use. The charges for components of the service which are jointly used will be allocated for billing purposes in accordance with percentages of use specified by the customer. The specified percentages shall remain in effect for a minimum of one month and such percentages on file on the first day of the customer's billing cycle will be used in computing that month's billing. Without affecting the customer's ultimate responsibility for payment of all charges for the service, each joint user shall be responsible for the payment of the charges billed to him in accordance with this sub-paragraph. /1/

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

CHANNELS (cont'd) /1/

1.1 General (cont'd)

1.1.5 Customer Operating Center Service

A. Description of Service

1. Customers who utilize large quantities of channels between their premises and their normal serving central office (i.e., local channels) in connection with burglar alarm channels which terminate at such customer's premises may optionally subscribe to Customer Operating Center (COC) Service. COC Service is an arrangement under which the Company will provide dedicated complements of cable pairs between the customer's premises and the normal serving central office, and will charge for such dedicated complements of cable pairs under the provisions of Paragraph 1.1.5.B.1 and 2 in lieu of local loop charges in Paragraph 1.2.4 of this Guidebook. In addition, the COC customer will be billed for the appropriate Service Area Function and S&E charges as specified in B.3 following for each local channel activated.

2. The customer of COC Service will also be billed for all patron's lines connected through the COC which includes local channels and interoffice mileage, where applicable, between the patron's premises and their normal serving central office at the rates specified in Paragraph 1.1.5.B.4 of this Guidebook.

3. The rates and charges in B.2 following for each complement of cable pairs are based on the specific quantity, size and length of cable dedicated to the customer's use.

   a. At the time COC Service is initially requested, the customer is responsible for furnishing to the Company an estimate of the number of dedicated cable pairs which will be required. The rates specified in B. following apply for each dedicated cable pair, whether activated or not.

   b. Complements are available in 100, 200, 300, 600, 900 or 1200 pair sizes.

   c. Length is measured in one quarter mile increments from the customer's premises to the normal serving central office. The maximum length which will be furnished under the provisions of 1.1.5. is one mile.

   d. Type 1001, 1102, 3001, 3002 and 3041 local channels may be activated for COC Service.

4. Provided no physical modification of circuits is required for existing burglar alarm customers that convert to COC Service, the S&E charge to convert to COC Service as specified in Section 1 preceding will be waived.

/1/

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

CHANNELS (cont'd) /1/

1.1 General (cont'd)

1.1.5 Customer Operating Center Service (cont'd)

B. Rates and Charges

	Nonrecurring Charge
1. To establish and to convert to or from COC Service	$56.00

2. Each dedicated complement of cable pairs

	Monthly Rate	Nonrecurring Charge	USOC
(a) Within 1/4 mile			
100 pair cable	$470.00	$4,718.00	1LZ1A
200 pair cable	611.00	6,121.00	1LZ2A

3. In addition to the rates and charges in 1 and 2 preceding, the following rates and charges apply to activate each local channel within the dedicated complement of cable pairs from the normal serving central office to the customer's premises:

   a. The monthly rate as specified in Paragraph 1.2.4.A following for the appropriate Service Area Function.

4. In addition to the rates for the appropriate dedicated complements of cable pairs as covered in 1, 2 and 3 preceding, the following rates and charges apply to activate each local channel from the normal serving central office to the patron's premises:

   a. The S&E charges specified in Section 1 preceding.

   b. The monthly rates specified in Paragraph 1.2.4.A following for the local loop and the appropriate Service Area Function and the interoffice mileage, if applicable. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates

1.2.1 Series 1000 Channels

A. Types and Description

Series 1000 channels are unconditioned channels capable of transmitting signals at rates up to 150 bauds. These channels are furnished for half-duplex or duplex operation. Duplex service is furnished on an entire channel, or on a portion thereof, where facility conditions permit.

The transmission characteristics and the various types of services furnished within this series are as follows:

1. Type 1001 - Transmission of frequencies of up to 15 Hertz or impulses per second for remote metering, supervisory control and miscellaneous signaling purposes.

2. Type 1102 - Transmission up to 30 baud, for remote metering, supervisory control, and miscellaneous signaling purposes; for local service area multipoint service and interexchange two-point or multipoint service.

3. Type 1002A - Transmission of miscellaneous signaling frequencies up to 60 Hertz per second for remote metering, supervisory control and miscellaneous signaling purposes.

4. Type 1002AA - Special - similar in transmission characteristics of Type 1002A to be used only for Civil Air Defense Warning Systems.

5. Type 1002B - Transmission up to 45 bauds for teletypewriter or data purposes.

6. Type 1002C - Transmission up to 55 bauds for teletypewriter or data purposes.

7. Type 1005 - Transmission up to 75 bauds for teletypewriter or data purposes.

8. Type 1006 - Transmission up to 150 bauds for teletypewriter or data purposes. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.1 Series 1000 Channels (cont'd)

B. Regulations

In addition to the regulations set forth in 2., the following regulations apply to Series 1000 channels.

1. Types 1001, 1002A and 1102

a. These channels may be used for such purposes as indicating readings of meters at distant locations, operating switches which in turn perform some desired operation, or operating special signaling devices of the customer.

(1) Channel facilities of the types available in the telephone plant are furnished for this service.

(2) Channels of similar grade furnished by the Company for these purposes may be interconnected by the customer on his premises. When such interconnection is made, the Company's responsibility is limited to providing and maintaining satisfactory transmission capabilities only between the terminal points of each individual channel which it furnishes.

(3) These channels may be used by the customer, in accordance with the normal transmission characteristics of such channels, to transmit more than one signal in sequence or simultaneously except when used in connection with private land radiotelephone stations established for communication with mobile units. The use of these channels is available on two point services; such use on a multipoint service is available only where facility conditions permit.

(4) All equipment and facilities at station locations, other than equipment necessary for suitably terminating the channel facilities on the premises of or within the building occupied by the customer or authorized user, shall be provided by the customer except that upon the customer's request, the Company will furnish at station locations, signaling and selective equipment and facilities of the kind ordinarily furnished by the Company for use with channels for remote metering, supervisory control or miscellaneous signaling purposes.

(5) The rates and charges specified for channels contemplate the furnishing of normal facilities suitable for the transmission of frequencies within the range specified; where channel facilities of a different type than would normally be furnished are required by the customer for reasons other than the basic frequency requirements, the rates or charges based upon costs incurred apply for such channels. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.1 Series 1000 Channels (cont'd)

B. Regulations (cont'd)

1. Types 1001, 1002A and 1102 (cont'd)

b. Local service area channels are furnished on a half-duplex basis only. However, where the customer desires grounded channel facilities, the Company will undertake, if possible, to make such channels available by subdividing a metallic channel to create two grounded channels.

c. These channels are furnished on a twenty-four hour per day, seven day per week basis only.

d. Where these channels are furnished between equipment at airports and equipment used in providing flying aids for air navigation, such as radiotelephone and radiotelegraph stations, markers, beacons, etc., and the location of the latter equipment is in the same LATA and is in an exchange area contiguous to the exchange area in which the airport is located and is not more than five airline miles from the location of the equipment at the airport, the rates for local service area channels apply for the portion of the channel furnished by the Company. Where construction is required in connection with such channels, the same rates and regulations as apply in connection with channels confined to a single exchange area are applicable.

e. Multipoint service for Type 11O2 channels is limited to a maximum of 26 points served from a total of no more than 3 different serving central offices and may be further limited by the transmission distance limitations of customer-provided terminal equipment.

2. Types 1001, 1002A, 1002B, 1002C, 1005, 1006 and 1102

For Types 1001, 1002A and 1102 channels, in addition to the regulations set forth in 1. preceding, the following regulations apply. These regulations are also applicable to Types 1002B, 1002C, 1005 and 1006 channels:

a. Channels, including channels created by the customer, may not be connected with other private line services or, except as set forth in Part 2, Section 9 of P.U.C.O. Tariff No. 20, with the exchange or toll network.

b. In those cases where conditions are encountered that involve abnormal costs in deriving the channel, additional rates or charges based upon costs incurred apply. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.1 Series 1000 Channels (cont'd)

B. Regulations (cont'd)

3. Type 1002AA

These channels are furnished between the control station and the receiving stations of a customer's Civil Air Defense Warning System and may not be directly or indirectly connected with any other facilities of the Company nor with other customer-provided equipment or facilities.

4. Types 1002B, 1002C, 1005 and 1006

a. Where a station of an intrastate interexchange private line teletypewriter service furnished by the Company or of an interstate service furnished by the Company or furnished under contract with a Bell Company is located in an exchange area of a connecting company, the Company will furnish private line teletypewriter service between points within such exchange area if one of such points is in the building or on the continuous property where the station of the interexchange service is located, and provided satisfactory arrangements can be made with the connecting company involved.

(1) Where the stations are on non-continuous property, the charges of the connecting company involved apply.

b. Switching Arrangements for Teletypewriter Service

(1) Switching arrangements are provided to permit the customer to connect two or more separate interexchange channels to form through two point or multipoint connections. Such arrangements will be furnished where facility conditions permit at rates and charges based upon costs incurred.

Note: Each interexchange channel connected to a switching arrangement is priced as a separate service but remains as an integral part of customer's network.

(2) When duplex service is furnished on a portion of an interexchange channel, switching arrangements are required at the junction points of the half-duplex and duplex sections and are charged for as provided in (1) above. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.1 Series 1000 Channels (cont'd)

B. Regulations (cont'd)

5. Type 1006

a. Station arrangements are required for stations or terminations on a Type 1006 channel when such stations or terminations are located on different premises (i.e., in same building or on same or non-continuous property). The monthly rates for these arrangements are set forth in 1.2.4 following.

b. Transmission between only two stations at the same time is normally contemplated, however, arrangements may be made to provide for transmission between more than two stations at the same time, for which special equipment and arrangements are furnished at rates or charges based upon costs incurred.

1.2.2 Series 2000 Channels

A. Types and Description

This series is furnished for voice transmission within the approximate bandwidth of 300-3000 Hertz and is provided in the following types:

1. Type 2001 - Furnished primarily for intercommunication for one customer, or for two or more customers.

2. Type 2002 - Furnished in connection with remote operation of private mobile radiotelephone systems.

May also be used for combined voice transmission and control purposes.

3. Type 2013 - Furnished for PBX or similar off-premise main station use.

4. Type 2014 - Furnished as a two-wire interface with effective two-wire facilities furnished for PBX (or similar) off-premises main stations capable of operating over loops with resistance up to 1300 ohms with Signaling Arrangements as specified in 1.2.2.B.8.

5. Type 202 - Furnished for tie line use between PBX's (or similar) systems.

6. Type 2021 - Furnished as a two-wire or four-wire transmission interface with four-wire facilities for tie line use between PBX's (or similar) systems with Signaling Arrangement as specified in Section 1.2.2.B.7 following. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.2 Series 2000 Channels (cont'd)

A. Types and Description (cont'd)

7. Type 2024 - Furnished for tie line use between a PBX (or similar) systems and a Centrex central office system.

8. Type 2025 - Furnished as a two-wire or four-wire transmission interface with four-wire facilities for tie line use between a PBX (or similar) systems and a Centrex CO; with Signaling Arrangement as specified in Paragraph 1.2.2.B.8 following.

9. Type 2026 - Furnished for tie line use in connection with Centrex.

B. Regulations

In additions to the general regulations set forth in Section 1, preceding, the following regulations apply to Series 2000 channels:

1. General

a. Series 2000 channels are furnished for half-duplex operation.

b. Communicating between only two stations at the same time is contemplated with Series 2000 channels; however, to permit communication for more than two stations at the same time, special equipment and arrangements may be furnished at rates and charges based on costs incurred.

2. Type 2001

a. Terminations of Type 2OO1 channels can be in facilities provided by the Company or by the customer or in equipment provided by the customer.

Where stations are not permanently connected to an interexchange service, it is contemplated that they be located on the same premises or continuous property as the equipment on which service is terminated. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.2 Series 2000 Channels (cont'd)

B. Regulations (cont'd)

2. Type 2001 (cont'd)

b. Signaling

(1) Signaling on a two point interexchange service may be arranged for ring-down operation; automatic ringing; dial signaling; automatic signaling; key signaling; a combination of one-way magneto signaling - one-way key signaling or one-way key signaling - one-way automatic signaling.

Signaling on a multipoint interexchange service is arranged for magneto or key operation, or a combination thereof.

(2) Signaling on channels confined to a local service area may be arranged for magneto signaling; key signaling; one-way magneto - one-way key signaling; automatic signaling; and one-way key - one-way automatic signaling.

c. The connection of Type 2001 channels at any one point but not simultaneously at more than one point, with exchange service is permitted, subject to the following conditions:

(1) The Company will not warrant that standard operation and transmission can be obtained when such connections are established. When standard operation and transmission would normally not be obtained and the necessary facilities to do so can be provided, the Company will, upon the request of the customer, provide the necessary equipment and facilities at additional rates and charges based upon costs incurred.

(2) Connections to exchange service, in situations involving two or more telephone companies, will be made only with the concurrence of all of the telephone companies participating in the provision of the service.

d. Channel facilities for Homebound-Student School service are furnished for an intercommunicating service designed for two-way communication for instruction to students who are unable to attend school.

Channel facilities are provided at rates and charges specified for local service area channels on a twenty-four hour per day, seven day per week basis only. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.2 Series 2000 Channels (cont'd)

B. Regulations (cont'd)

3. Type 2002

a. These channels furnished for voice transmission or for combined voice transmission and control purposes may be interconnected at the customer's private land radiotelephone station with channels of the customer established for communication with mobile units.

b. Type 2002 channels, in addition to being used in accordance with the normal characteristics for combined voice transmission and control purposes, may be used by the customer to transmit more than one signal alternately or simultaneously or to create additional channels for remote metering, supervisory control and miscellaneous signaling purposes. The use of these channels is available on two point services; such use on a multipoint service is available only where facility conditions permit.

c. All equipment and facilities at station locations, other than equipment necessary for suitably terminating the channel facilities on the premises of or within the building occupied by the customer or authorized user, shall be provided by the customer.

d. Channels, including channels created by the customer, may not be connected with other private line services or with the exchange or toll network.

4. Types 2013 and 2014

These channels are furnished to connect the customer's off-premises PBX stations located outside the local service area of such customer's serving PBX system, subject to the following:

a. Off-premises stations located on other premises of the same customer may be used for communication with other stations directly connected to the PBX system and located on the same premises as the PBX attendant position. Off-premises station lines may also be used in connection with trunk lines, tie lines, other off-premises station lines or private lines, subject to the condition that the Company does not warrant that standard operation and transmission can be obtained when such connections are established. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.2 Series 2000 Channels (cont'd)

B. Regulations (cont'd)

4. Types 2013 and 2014 (cont'd)

a. (cont'd)

In cases where standard operation and transmission would normally not be obtained, the Company will, if the necessary facilities and equipment are available to furnish standard operation and transmission, provide these facilities and equipment at additional rates and charges based on costs incurred.

b. Channels to connect off-premises stations located on premises of someone other than the customer are furnished with the understanding that such stations will be used only for communication with other stations directly connected to the PBX system and located on the same premises as the attendant position and ordinarily only on condition that separate exchange service is also furnished at the same off-premises location.

5. Types 2020 and 2021

These channels are furnished as tie lines to connect PBX (or similar) systems of the same or different customers on different premises, subject to the following:

a. Tie lines connecting systems which are located on two different premises of the customer are furnished for communication between stations directly connected to and located on the same premises as the dial switching equipment of PBX attendant positions involved. Tie lines may be used in connection with PBX trunk lines, off-premises station lines, other tie lines, or interexchange private lines, subject to the condition that the Company does not warrant that standard operation and transmission can be obtained when such connections are established.

In cases where standard operation and transmission would normally not be obtained, the Company will, if the necessary facilities and equipment are available to furnish standard operation and transmission, provide these facilities and equipment at additional rates and charges based on cost incurred. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.2 Series 2000 Channels (cont'd)

B. Regulations (cont'd)

5. Types 2020 and 2021 (cont'd)

b. Tie lines connecting PBX systems of different customers are furnished with the understanding that such tie lines are to be used only for communication between stations directly connected to and located on the same premises as the dial switching equipment or PBX attendant positions involved. Such tie lines are provided only if each of the PBX systems involved is connected to the central office by PBX trunk lines.

6. Types 2024, 2025 and 2026

These channels are furnished as tie lines to connect PBX (or similar) systems and Centrex CO services or in connection with Centrex CO service as described in 1.2.2.A preceding. Such channels are subject to the provisions in 5. above and the "Tie Line" provisions in Part 5, Section 1 of this Guidebook.

7. Signaling Arrangements

a. The following Signaling Arrangements are furnished for registered and grandfathered PBX (or similar) systems in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations.

(1) Signaling Arrangements for use with Type 2014 channel which connect off-property stations of PBX (or similar) systems;

Type A - Furnished for use with Class A PBX (or similar) station ports capable of operation over loops with resistance in the range of 0-199 ohms.

Type B - Furnished for use with Class B PBX (or similar) station ports capable of operation over loops with resistance in the range of 200-899 ohms.

Type C - Furnished for use with Class C PBX (or similar) station ports capable of operation over loops with resistance in the range of 900 ohms or more.

(2) Signaling Arrangements for use with Type 2021 and 2025 channels furnished as PBX to PBX or PBX to Centrex CO tie lines with E and M signaling interfaces. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.2 Series 2000 Channels (cont'd)

B. Regulations (cont'd)

7. Signaling Arrangements (cont'd)

b. The following regulations apply to the Signaling Arrangements for off-property stations as described in a-(1) preceding.

(1) For new connections of off-property stations to registered PBX (or similar) systems, the customer must specify the equipment capability, i.e., Type A, B or C port, of the system.

(2) Customers with grandfathered PBX (or similar) systems may either

(a) continue to provide their own off-property station signaling capability and utilize only Company-provided channels, or

(b) specify the equipment capability of their system and request the Company to provide the Signaling Arrangement.

c. The following regulations apply to the Signaling Arrangement for tie lines as described in a-(2) preceding.

(1) An E and M Signaling Arrangement is required for each dial repeating tie line termination in a registered PBX (or similar) system.

(2) An E and M Signaling Arrangement is required for each tie line termination in a grandfathered PBX (or similar) system only when the tie line is arranged with an E and M signaling interface. /1/

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

CHANNELS (cont'd) /2/

1.2 Classification and Rates (cont'd)

1.2.3 Series 3000 Channels

A. Types and Description

1. The following Series 3000 channels which are designed to meet certain specifications based upon Company standards of measurement for the various purposes set forth below, are furnished within the approximate bandwidth of 300-3000 Hertz for half duplex or duplex operation. Duplex service, however, which may be furnished either on an entire channel or on a portion thereof, is available only where facility conditions permit.

   a. Type 3001 - Furnished for remote metering, supervisory control and miscellaneous signaling purposes.

   b. Type 3002 - Furnished for data transmission.

2. The following Series 3000 channels known as Local Area Data Channels are suitable for baseband transmission of digital data signals between two stations within the same serving central office area, and are offered only for balanced transmission of data signals conforming to the signal power limitations and other parameters specified in the applicable Bell System Technical Reference(s). Service is limited to stations that are not more than six route miles apart, as determined by the Company, using normal cable routing between the stations to be served. The Local Area Data Channels available are of the following types.

   a. Type 3080 - Two-wire facilities/1/

   b. Type 3081 - Four-wire facilities/1/ /2/

/1/ Effective April 15, 2014, Local Area Data Channels, types 3080 and 3081, will no longer be available to new customers. Existing customers may keep the service, subject to withdrawal, but will no longer be able to add/remove features, make changes (including upgrades or downgrades of access/port speed), install new service, or move the service to a different service address or location. /2/ /2/

/2/ Material formerly appeared in Part 15, Section 2.

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.3 Series 3000 Channels (cont'd)

B. Regulations

In addition to the regulations set forth in Section 1 preceding, the following regulations apply to Series 3000 channels:

1. General

a. Channels including channels created by the customer may not be connected with other private line services or with the exchange or toll network.

b. In those cases where conditions are encountered that involve abnormal costs in deriving the channel, additional rates or charges based upon costs incurred apply.

2. Type 3001 and 3002

a. These channels are not suitable for the transmission of direct current pulses.

b. The number of stations that may be connected and the distance over which satisfactory transmission is possible may be limited by operating and transmission factors on channels furnished for data transmission.

3. Type 3001

a. These channels are furnished for such purposes as reading meters at distant locations, operating switches which in turn perform some desired operation, or operating special signaling devices of the customer.

(1) Channel facilities of the types available in the telephone plant are furnished for this service.

(2) Channels of similar grade furnished by the Company for these purposes may be interconnected by the customer of his premises. When such interconnection is made, the Company's responsibility is limited to providing and maintaining satisfactory transmission capabilities only between the terminal points of each individual channel which it furnishes. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.3 Series 3000 Channels (cont'd)

B. Regulations (cont'd)

3. Type 3001 (cont'd)

a. (cont'd)

(3) All equipment and facilities at station locations, other than equipment necessary for suitable termination of the channel facilities on the premises of or within the building occupied by the customer or authorized user, shall be provided by the customer except that upon the customer's request, the Company will furnish at station locations, signaling and selective equipment and facilities of the kind ordinarily furnished by the Company for use with channels for remote metering, supervisory control or miscellaneous signaling purposes.

(4) The rates and charges specified for channels contemplate the furnishing of normal facilities suitable for the transmission of frequencies within the range specified. Where channel facilities of a different type than would normally be furnished are required by the customer for reasons other than the basic frequency requirements, the rates or charges based upon costs incurred apply for such channels.

b. Where Type 3001 channels are furnished between equipment at airports and equipment used in providing flying aids for air navigation, such as radio telephone and radiotelegraph stations, marke beacons etc., and the location of the latter equipment (1) is in the same LATA and in an exchange area contiguous to the exchange area in which the airport is located, and (2) is not more than five airline miles from the location of the equipment at the airport, the rates for local service area channels apply for the portion of the channel furnished by the Company. Where construction is required in connection with such channels, the same rates and regulations as apply in connection with channels confined to a single exchange area are applicable.

4. Type 3002

Data sets are required to condition signals generated by apparatus furnished by the customer to signals suitable for transmission on a channel and to condition signals received from such a channel to signals for delivery to apparatus furnished by the customer. /1/

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

CHANNELS (cont'd) /2/

1.2 Classification and Rates (cont'd)

1.2.3 Series 3000 Channels (cont'd)

B. Regulations (cont'd)

5. Local Area Data Channels (Type 3080, 3081)[/1/]

a. These channels require the use of cable facilities having neither load coils nor bridge-tap. In the event such facilities are not available, the Company will, at the customer's request, remove load coils and bridge-tap from facilities at cable opening charges as shown in 1.2.4.F. following.

b. Provision of such channels is subject to the availability of existing facilities.

6. Types 3040 and 3041

A Type 3041 channel may be used between a DSS and a remote station where transmission limitations preclude using a Type 3040 channel. /2/

/1/ Effective April 15, 2014, Local Area Data Channels, types 3080 and 3081, will no longer be available to new customers. Existing customers may keep the service, subject to withdrawal, but will no longer be able to add/remove features, make changes (including upgrades or downgrades of access/port speed), install new service, or move the service to a different service address or location. /2/ /2/

/2/ Material formerly appeared in Part 15, Section 2.

CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels

A. Monthly Rate Elements (cont'd)

Note: The monthly rates for Type 1002AA Channels are covered in 1.2.4.D following.

1. Local channels, half-duplex or duplex

A local channel is comprised of two rate elements, a local loop charge and a service area function charge as follows:

a. Local Loops

	Monthly Rate	USOC	
(1) Effective two-wire loop	$3,871.00	1LPJJ/1/	(I)
(2) Effective four-wire loop	7,516.00	1LNFB/1/	(I)
(3) Type 1001 channel furnished on cable pair which is not capable of voice grade service or where both conductors are not operative, each loop	10.60	1L31J	

Note: Types 2020, 2021, 2024, 2025, 3002, 3041, 3081 and 3083 channels require four wire loops.

/1/ Additional codes appear in departmental practices.

CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

A. Monthly Rate Elements (cont'd)

1. Local channels, half-duplex or duplex (cont'd)

b. Service Area Function For Local Service Area Private Lines

Description	Monthly Rate All Terminations in Same CO Area	USOC	Monthly Rate Terminations in Different CO Area	USOC
Type 1001	$1,831.00 (I)	OPMAA	$1,831.00 (I)	OPMAB
Type 1002A	1,831.00 (I)	OPMAD	9.40	OPMAE
Type 1002B	9.40	OPMAG	9.40	OPMAH
Type 1002C	9.40	OPMAK	9.40	OPMAL
Type 1005	9.40	OPMAN	9.40	OPMAO
Type 1006	9.40	OPMAQ	9.40	OPMAR
Type 1102	9.40	OPMAT	9.40	OPMAU
Type 2001	6,324.00 (I)	OPMPS	7,858.00 (I)	OPMPD
Type 2002	6,324.00 (I)	OPMAW	7,858.00 (I)	OPMAX
Type 2013	6,324.00 (I)	OPMBA	7,858.00 (I)	OPMBB
Type 2014	6,324.00 (I)	OPMBD	7,858.00 (I)	OPMBE
Type 2020	34.40	OPNBG	42.00	OPNBH
Type 2021	7,095.00 (I)	OPNBK	8,652.00 (I)	OPNBL
Type 2024	34.40	OPOBN	8,652.00 (I)	OPOBO
Type 2025	7,095.00/1/ (I)	OPOBQ	42.00/1/	OPOBR
Type 2026	7,095.00 (I)	OPQBT	42.00/1/	OPQBU
Type 3001	4,716.00 (I)	OPMBW	4,716.00 (I)	OPMBX
Type 3002	7,858.00 (I)	OPMCA	8,652.00 (I)	OPMCB
Type 3040	22.90	OPMCD	22.90	OPMCE
Type 3041	22.90	OPMCG	22.90	OPMCH
Type 3080/2/	8,652.00 (I)	OPMCK	-	-
Type 3081/2/	7,858.00 (I)	OPMCL	-	-
Type 3083	38.20	OPMCM	-	-

/1/ When a private line channel for a customer terminates in switching equipment located on Company premises and no local loop is required, the monthly rate for a service area function still applies to such termination

/2/ Effective April 15, 2014, Local Area Data Channels, types 3080 and 3081, will no longer be available to new customers. Existing customers may keep the service, subject to withdrawal, but will no longer be able to add/remove features, make changes (including upgrades or downgrades of access/port speed), install new service, or move the service to a different service address or location.

CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

A. Monthly Rate Elements (cont'd)

1. Local channels, half-duplex or duplex (cont'd)

c. Service Area Function For Interexchange Private Lines

Description /Billing Code/		Monthly Price	
Type 1001	/OPMAC/	$ 9.40	
Type 1002A	/OPMAF/	9.40	
Type 1002B	/OPMAJ/	9.40	
Type 1002C	/OPMAM/	9.40	
Type 1005	/OPMAP/	9.40	
Type 1006	/OPMAS/	9.40	
Type 1102	/OPMAV/	9.40	
Type 2001	/OPMPX/	7,858.00	(I)
Type 2002	/OPMAY/	7,858.00	|
Type 2013	/OPMBC/	7,858.00	|
Type 2014	/OPMBF/	7,858.00	(I)
Type 2020	/OPNBJ/	42.00	
Type 2021	/OPNBM/	42.00	
Type 2024	/OPOBP/	8,652.00	(I)
Type 2025	/OPOBS/	42.00/1/	
Type 2026	/OPQBV/	8,652.00/1/	(I)
Type 3001	/OPMBY/	22.90	
Type 3002	/OPMCC/	8,652.00	(I)
Type 3040	/OPMCF/	22.90	
Type 3041	/OPMCJ/	22.90	
Type 3080/2/	-	-	
Type 3081/2/	-	-	
Type 3083	-	-	

/1/ When a private line channel for a customer terminates in switching equipment located on Company premises and no local loop is required, the monthly rate for a service area function still applies to such termination.

/2/ Effective April 15, 2014, Local Area Data Channels, types 3080 and 3081, will no longer be available to new customers. Existing customers may keep the service, subject to withdrawal, but will no longer be able to add/remove features, make changes (including upgrades or downgrades of access/port speed), install new service, or move the service to a different service address or location.

CHANNELS (cont'd)

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

A. Monthly Rate Elements (cont'd)

2. The following rates are applicable to channels.

Description /Billing Code/	Monthly Price	
a. Interoffice channel, duplex or half-duplex, each mile or fraction thereof /1LPJS/[1/]	$2,274.00	(I)
b. Interexchange channel, duplex or half-duplex, each mile or fraction thereof /1LPJ4/[1/]	1,084.00	(I)
c. Service terminal /P3N/	10,359.00	(I)

/1/ Additional codes appear in departmental practices.

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

B. Application of Monthly Rate Elements to Local Service Area Private Line Services

1. Private line services between non-continuous property locations

a. Private line services between non-continuous property locations are provided in the channel types specified in 1.2.1, 1.2.2 and 1.2.3 preceding.

b. The monthly charge for private line service when all service locations are within the same central office area is the appropriate monthly rate set forth in A.1 preceding for the number of local channels required to provide such service.

c. The monthly charge for private line service with service locations in two or more central office areas is

(1) the appropriate monthly rate specified in A.2 preceding for interoffice channels between the central offices of the service locations involved, computed in accordance with the provisions of 1.1.2.D preceding; plus

(2) the appropriate monthly rate specified in A.1 preceding for a local channel between each service location and its serving central office.

C. Application of Monthly Rate Elements to Interexchange Private Line Services

1. The monthly charge for interexchange private line service is

a. the appropriate monthly rate specified in A.2 preceding for the interexchange channels between the rate centers of the service points, computed in accordance with the provisions of 1.1.2.C preceding; plus

b. the monthly rate specified in A.2 preceding for a service terminal per two point section, per rate center in which an interexchange channel terminates or connects to one or more service locations. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

C. Application of Monthly Rate Elements to Interexchange Private Line Services (cont'd)

2. In addition, whenever the interexchange channel connects to one or more service locations within the exchange area of a rate center, the monthly charge for that portion of the service between the rate center and the service locations is as follows:

a. All service locations in rate center central office area:

b. Service locations in two or more central office areas:

The appropriate monthly rate specified in A.2 preceding for an interoffice channel(s) between the rate center central office and the central office(s) of the service locations, computed in accordance with the provisions of 1.1.2.D preceding plus the appropriate monthly rate specified in A.1 preceding for a local channel between each service location and its serving central office.

Description /Billing Code/	Monthly Rate
D. Civil Air Defense Warning Systems	
Type 1002AA	
1. Channel Facilities	
a. Interexchange Channels	
Where all stations are in Company exchange areas which are not in the local service area of the other or others	
Each mile or fraction thereof (Mileage is determined as set forth in 1.1.2.C.1. preceding) /1L334/	$9.90

/1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

D. Civil Air Defense Warning Systems (cont'd)

Type 1002AA (cont'd)

	Monthly Rate	USOC
1. Channel Facilities (Cont'd)		
b. Local channels provided in connection with interexchange channels		
Each 1/4 mile or fraction thereof	$2.75	1L33R
(Measured airline between each receiving station and the rate center of the exchange area in which the receiving station is located)		
c. Local Service Area Channels		
Where all stations are in a Telephone Company exchange area or in Telephone Company exchange areas which are in the local service area of the other or others		
Each 1/4 mile or fraction thereof	2.75	1L33M
(Measured airline between each receiving station and the normal central office of the receiving station)		

E. Miscellaneous Channel Arrangements

1. Type 1006 Channel Station Arrangements

Station arrangements are required under the conditions specified in 1.2.1.B.6, and at the following rates:

	Monthly Rate	USOC
a. Two stations, each station	$31.15	4GTMS
b. More than two stations, each station	61.15	4GTMP /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

E. Miscellaneous Channel Arrangements (cont'd)

2. Switching arrangements - Type 2001 Interexchange Channels

Switching arrangements are provided to permit a customer with a PBX system to connect two separate two point private line services so as to form through connections, the provision of which contemplates satisfactory transmission over such private line services.

	Monthly Rate	USOC
a. Per service point, per service arranged	$31.75	SWA

Note: Each private line connected to a switching arrangement is provided as a separate service but remains as an integral part of the customer's network.

b. Other types of switching arrangements will be furnished where facility conditions permit at rates and charges based upon costs incurred.

c. A switching arrangement associated with a PBX system requires an interexchange private line terminal. /1/

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

CHANNELS (cont'd) /1/

1.2 Classification and Rates (cont'd)

1.2.4 Rates and Charges - Series 1000, 2000 and 3000 Channels (cont'd)

F. Moves and Changes

1. Bridging of terminations of local and interoffice portions of local service area channels (Types 1001, 1002A, 3001 and 3002)

a. Bridging equipment at bridging points

Bridging equipment provided by the Company at bridging points in connection with multipoint channels is furnished at rates or charges based upon costs incurred except for Types 3001 and 3002 channels, in which event standard bridging equipment provided by the Company at bridging points in connection with multipoint channels is furnished without additional charge.

b. Rearrangements of terminations at bridging points

(1) No charge applies to terminations left in place on a channel when terminations are added or when terminations are removed.

(2) For transfer of one or more terminations from a given channel to another, apply a charge equal to the charge to move one channel termination.

	Nonrecurring Charge	
2. Removal of load coils and bridge-tap for Local Area Data Channels, per cable opening	$520.30	/1/

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

ALTERNATE USE ARRANGEMENTS (cont'd) /2/

Subject to the provisions in Section 1 preceding, the Company will provide private line service to permit different types of transmission on an alternate use basis. The type of transmission for which such service may be used and the charges applicable for such use are as set forth below. The customer must provide a transfer key to permit the customer to switch from one type of operation to another. Generally only one type of operation can be used at one time. Regulations applicable to a particular type of operation apply during the period the service is used for that type of operation. The alternate use charges specified are in addition to all other charges applicable for the type of channel required. The charges applicable for the type of channel are those specified for monthly service.

2.1 Series 1000 Channels

A. Alternate use of Teletypewriter up to 75 Bauds and Remote Metering, Supervisory control and Miscellaneous Signaling Purposes (Type 1001 and Type 1002A)

1. Channel type required: 1002B/1002C/1005

2. This alternate use, furnished only where channel terminal facilities are provided by the Company, is available on two point services. On services involving more than two points, it will be permitted where facility conditions permit.

	Monthly Rate	Nonrecurring Charge	USOC
3. Alternate use, per termination	$ 3.05	$39.20	TYW/1/
4. Additional facilities required on multipoint service will be furnished based upon costs incurred by the Company.			

B. Alternate use of Teletypewriter up to 75 Bauds and Data up to 75 Bauds

1. Channel type required: 1002B/1002C/1005

2. This alternate use is available on two-point half duplex service only. It may be provided for the same or lesser grade of transmission

3. Each station arranged for alternate use	46.15	-	TYV/1/	/2/

/1/ Additional codes appear in departmental practices. /2/
/2/ Material formerly appeared in Part 15, Section 2.

ALTERNATE USE ARRANGEMENTS (cont'd) /1/

2.2 Series 2000 Channels (cont'd)

A. Alternate use of Voice and Remote Metering, Supervisory Control and Miscellaneous Signaling Purposes (Type 1001, 1002A and 3001)

1. Channel type required: 2001

2. This alternate use, furnished only where channel terminal facilities are provided by the Company, is available on two-point services. On services involving more than two points alternate use will be permitted where facilities permit.

3. For rate and charge, see 2.1.A preceding.

4. Additional facilities required on multipoint service, if not detrimental to any of the services furnished by the Company, will be furnished based upon costs incurred.

B. Alternate use of Voice and Teletypewriter up to 75 Bauds

1. Channel type required: 2001

2. This alternate use is available on two point half duplex services. On services involving more than two points, it will be permitted where facility conditions permit.

3. For monthly rate, see 2.1.B preceding.

4. Additional facilities required on multipoint service, if not detrimental to any of the services furnished by the Company, will be furnished based upon costs incurred.

C. Alternate use of Voice and Teletypewriter up to 150 Bauds

1. Channel type required: 2001

2. This alternate use is available on half-duplex interexchange two-point services. Where such services involve more than two points, alternate use is permitted where facility conditions permit.

3. For monthly rate, see 2.1.B preceding.

4. Additional facilities required on multipoint service, if not detrimental to any of the services furnished by the Company, will be furnished based upon costs incurred. /1/

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

ALTERNATE USE ARRANGEMENTS (cont'd) /1/

2.2 Series 2000 Channels (cont'd)

D. Alternate use of Voice and Data up to 75 Bauds

1. Channel type required: 2001

2. This alternate use is available on half-duplex interexchange two point services only.

3. For monthly rate, see 2.1.B preceding.

E. Voice private line service used alternately as interexchange circuit in connection with Foreign Exchange Service

1. Channel type required: 2001

2. Foreign exchange operation is available only between two points on interexchange private line service.

3. In addition to the rates and charges specified in this Guidebook for private line service, this alternate use arrangement requires the application of regulations, rates and charges for foreign exchange service (except the rates and charges related to the interexchange circuits) set forth in Part 4, Section 3 of this Guidebook (or P.U.C.O. Tariff No. 20), plus the following:

	Monthly Rate	Nonrecurring Charge	USOC
Manual Operation			
a. Each station of private line service connected for alternate use	$40.40	$21.05	37J
Type 1001 control channel, per transfer key		See 1.2.4 preceding	
b. Foreign exchange service intercept channel between the central office from which the foreign exchange service is furnished and the customer's premises, at rates specified in Part 4, Section 3 of this Guidebook (or P.U.C.O. Tariff No. 20). In lieu of an intercept channel, at the customer's option, trunk make busy equipment may be provided on the exchange service line under the provisions of Part 8, Section 8 of this Guidebook (or P.U.C.O. Tariff No. 20).			
(1) Circuit busy visual indicating arrangement	34.60	528.35	37H
(2) Type 1001 control channel per arrangement		See 1.2.4 preceding	

/1/

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

ALTERNATE USE ARRANGEMENTS (cont'd) /1/

2.3 Series 3000 Channels

A. Alternate Use - Voice and Data - Type 3002

1. Channel type required: 3002

2. This alternate use is available on interexchange two point services only.

3. Alternate use, per station

	Monthly Rate	Nonrecurring Charge	USOC
Duplex	$5.40	$70.35	3AG

/1/

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

CHANNEL CONDITIONING /1/

3.1 Channel conditioning is provided on Types 2001 and 3002 channels

	Monthly Rate	Nonrecurring Charge	USOC
A. Type C1 conditioning			
1. On a two point or multipoint channel within the same exchange area, each channel	$30.00	$25.40	QA9
2. On a two point or multipoint channel with stations in 2 exchange areas			
a. First station in an exchange area	30.00	25.40	QAB
b. Additional stations and additional terminations in the same exchange areas as the first station, each	17.60	25.40	QAC
3. On a multipoint channel with stations in 3 or more exchange areas			
a. First station in an exchange area	60.00	61.15	QAD
b. Additional stations and additional terminations in the same exchange area as the first station, each	17.60	25.40	QAE
B. Type C2 conditioning			
1. On a two point or multipoint channel within the same exchange area, each channel	110.75	61.15	QAF
2. On a two point or multipoint channel with stations in 2 exchange areas			
a. First station in an exchange area	110.75	61.15	QAG
b. Additional stations and additional terminations in the same exchange areas as the first station, each	17.60	25.40	QAH
3. On a multipoint channel with stations in 3 or more exchange areas			
a. First station in an exchange area	140.75	125.75	QAJ
b. Additional stations and additional terminations in the same exchange area as the first station, each	17.60	25.40	QAK /1/

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

CHANNEL CONDITIONING (cont'd) /1/

3.1 Channel conditioning is provided on Types 2001 and 3002 channels (cont'd)

C. Type C4 conditioning

Type C4 conditioning is limited to channels with a maximum of 3 terminations, i.e., a two point channel with 1 additional termination or a 3 point multipoint Channel without additional terminators. One termination is designated by the customer as the point and each of the other 2 terminations.

	Monthly Rate	Nonrecurring Charge	USOC
a. On a channel within the same exchange area, each channel	$166.15	$125.75	QA3
b. On a channel between exchange areas, each station or termination	166.15	125.75	QA7

D. Type D1 (high performance) conditioning

Type D1 (high performance) conditioning for Type 3002 duplex channels

	Monthly Rate	Nonrecurring Charge	USOC
On a two point channel not arranged for switching, each channel	45.00	281.50	QHA

/1/

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

SERIES 10000 CHANNELS /1/

A. Types and Description

Series 10000 Channels are furnished by the Company for the purpose of extending customer-provided communications systems to a premise of the customer or to Centrex Control Switching Equipment serving the premises of the customer for use at such premises. Channels are furnished for half-duplex or duplex operation on a two-point basis for service 7 days per week, 24 hours per day, for a minimum period of one month.

Type 10001 - Approximate bandwidth of 300-3000 Hertz. Furnished, to the extent permitted by the normal transmission characteristics of this grade of channel, for types of transmission similar to those set forth for Series 1000, 2000 and 3000 channels.

B. Regulations

In addition to the regulations set forth in Section 1 proceeding, the following regulations apply to Series 10000 channels as specified below.

Type 10001 - The customer's premises must be located 25 airline miles or less from the point at which the customer-provided communication channel is connected to the Company entrance facility.

C. Rates - Monthly Service

Type 10001 Channels

Entrance facilities will be furnished at rates and charges based upon costs incurred.

/1/

/1/ Material formerly appeared in Part 15, Section 5.

SIGNALING ARRANGEMENTS /1/

	Monthly Rate	Nonrecurring Charge	Termination Liability	USOC
A. Automatic ringing				
One-way or two-way single ring arrangement where two point interexchange service terminates in a telephone, private branch exchange system, key equipment or key telephone system, per station equipped	$16.15	$39.20	-	27M
B. Automatic signaling				
1. Automatic signaling line equipment, per local service area channel	8.20	-	-	47R
2. Where two point interexchange service is arranged for automatic intermittent signaling, two-way automatic signaling, per service point arranged	41.55	-	-	27L
C. Dial signaling				
Arrangement to permit direct dialing between stations suitably equipped to transmit dial signals on two-point inter-exchange service when one termination is a PBX or similar system, Centrex system, key telephone system, key equipment and the other termination is either such equipment or a dial telephone, each service point so arranged	35.75	-	-	27EKE
D. Key selective signaling				
1. Initial station code	39.20	-	$714.10	BYM
2. Additional station code on same continuous property as an initial code	15.85	-	406.10	BNM /1/

/1/ Material formerly appeared in Part 15, Section 5.

SIGNALING ARRANGEMENTS (cont'd) /1/

E. The following signaling arrangements are furnished for registered and grandfathered PBX (or similar) systems in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations:

	Monthly Rate	Nonrecurring Charge	USOC
1. Signaling arrangements, interexchange or intraexchange			
Type A	$34.05	-	SAL
Type B	23.65	-	SAU
Type C	4.20	-	SAY
2. Tie line signaling arrangement	15.00	-	SLM
3. Voice Connecting Arrangement			
Arrangement to connect voice communication system to a private line with dial or automatic signaling, terminating in a PBX or Centrex system, each	8.20	$10.75	CDQ
4. Arrangement to transfer a 100 Series DATA-PHONE data set			
Arrangement to transfer a l00 Series DATA-PHONE data set between an exchange line, with the exception of a two party line, and a line used with Western Union TWX Service, when such DATA-PHONE data set is associated with Company-provided teletypewriter equipment	13.25	81.90	D66
This arrangement is provided on a manual basis for outgoing service and on an automatic basis for incoming service.			

	Nonrecurring Charge	USOC
5. Simulated Direct Current (DC) Arrangement		
Arrangement to emulate direct current (DC) capability, where necessary, per channel	$1,603.00	DUT

/1/

/1/ Material formerly appeared in Part 15, Section 5.

BASE RATE SERVICE /3/

Effective June 30, 2021, Base Rate Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue these services on or after June 30, 2024. (N)

A. Description /3/

Base Rate Service provides for the simultaneous two-way transmission of synchronous digital signals at speeds of 2.4, 4.8, 9.6, 19.2, 56, or 64 Kbps. The service is available in either two-point or multi-point configurations, except for 64 Kbps service which is available only in a two-point configuration. The service is available between:

- Customer-designated premises.
- Customer-designated or Other Telecommunications Carriers (OTC) premises to the premises of an OTC for connection to the services or facilities of the OTC.
- Company wire centers for interconnecting Base Rate Service, 128, 256 and 384 Service/1/, DS1 Service and DS3 Service channels of two NRS/2/ systems via channel mileage and channel mileage terminations.
- Company wire centers for interconnecting central office multiplexers.
- Customer-designated premise and a Company wire center;
  - where multiplexing, bridging, hubbing, or cross-connection functions are performed.
  - for connection to Optical Interconnection Service via central office multiplexing.
  - for connection to Network Reconfiguration Service (NRS).

Multi-point bridging is an optional broadcast polling arrangement which consists of a single master station and two or more remote stations. Transmissions from the master station are received by all remote stations. Transmissions from the remote stations are received only by the master station.

For the optional secondary channel feature, the following transmission speeds as they relate to Base Rate Service apply:

Base Rate Service	Secondary Channel
2.4 Kbps	133.0 bps
4.8 Kbps	266.0 bps
9.6 Kbps	533.0 bps
19.2 Kbps	1.066 Kbps
56.0 Kbps	2.66 Kbps

/1/ Effective September 6, 2016, customers may not establish new term plans of any length for 128, 256 and 384 Service, and existing term plans may not be renewed. For existing service after any term plan expires, service will be provided only on a month-to-month basis.
/2/ Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers. See Part 20, Section 15. /3/
/3/ Material formerly appeared in Part 15, Section 3.

BASE RATE SERVICE (cont'd) /1/

B. Definitions

Multipoint Bridging
This capability provides communications between three or more Base Rate Service locations.

Secondary Channel
Secondary channel provides a companion channel over the same facility used to provide the primary channel, but at a lower bit rate.

C. Terms and Conditions

1. Multi-point bridging for Base Rate Services at speeds of 2.4, 4.8, 9.6, 19.2 and 56 Kbps are only available from appropriately equipped wire centers. Customers must choose their bridging locations from those equipped offices. A service inquiry must be made to determine availability of service.

2. Multi-point bridging is not available for Base Rate Service at 64 Kbps.

3. For multi-point bridging, the mileage to be used in determining the monthly rate for the channel mileage is calculated on the airline distance between the serving wire center of each customer designated premises and a wire center bridging location, plus the airline distance between multiple bridging locations, where applicable. When a multi-point service is connected to a central office multiplexer, the mileage calculation will also include the airline distance between a bridging location and a central office multiplexer location.

4. Base Rate Service is provided at the option of the Company where facilities permit. If appropriate facilities are not available, *Special Construction* charges may apply.

5. For optional Secondary Channel:

   - Secondary channel is not available with 64 Kbps service.

   - While the primary and secondary channels operate independent of each other, they must co-terminate in common customer equipment.

   - When a multi-point circuit is provisioned to utilize secondary channel, all stations on the multi-point circuit must be equipped with secondary channel capability.

   - The secondary and primary channels operate independently of each other, over the same facilities, and must be co-terminated in customer common equipment. /1/

/1/ Material formerly appeared in Part 15, Section 3.

BASE RATE SERVICE (cont'd) /2/

D. Features

1. Optional Features

Network Reconfiguration Service/1/
Base Rate Service is available for use with Network Reconfiguration Service.

Central Office Multiplexing and Cross Connect Services
These optional services are available with Base Rate Service. Refer to Central Office Multiplexing and Cross Connect Services later in this Section.

Error Correction
This feature is available in conjunction with an Base Rate Service channel operating at a speed of 2.4, 4.8, 9.6 or 19.2 Kbps. It is available in either point-to-point or multipoint configurations, except for 19.2 Kbps service which is available only in a point-to-point configuration.

Multi-Point Bridging
Provides for communications capability between three or more Base Rate Service locations.

Secondary Channel
This feature is available in conjunction with an Base Rate channel operating at a speed of 2.4, 4.8, 9.6, 19.2 or 56 Kbps (considered the primary channel) and provides a companion channel over the same facility used to provide the primary channel, but at a lower speed.

Shared Network Arrangement
Base Rate Service is available under a Shared Network Arrangement.

/1/ Effective October 30, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers. See Part 20, Section 15. /2/
/2/ Material formerly appeared in Part 15, Section 3.

BASE RATE SERVICE (cont'd) /1/

E. Technical References

Performance parameters for Base Rate Service may be found in the Technical References listed below.

All signals generated by Network Channel Terminating Equipment (NCTE) must meet the signal and format constraints contained in Telcordia Technologies (formerly known as Bellcore) Publication GR-54-CORE. This document also contains the specifications for Clear Channel Capability.

Subject	Technical Reference
Ameritech OPTINET 64 Interface Specifications	AM TR-OAT-000070
Ameritech Digital Service Transmission Parameters	AM TR-TMO-000101
Digital Data Special Access Service Transmission Parameters and Interface Combinations	TR-NWT-000341 (Telcordia)
High-Capacity Digital Service (1.544 Mbps) Interface Generic Requirements for End Users	GR-54-CORE (Telcordia) (N)

The Technical Reference(s) can be obtained from:

APEX Support Team
(734) 523-7348

The Telcordia Publication(s) can be obtained from:

Telcordia Technologies, Inc.
8 Corporate Place, PYA 3A-184
Piscataway, New Jersey 08854-4156 /1/

/1/ Material formerly appeared in Part 15, Section 3.

BASE RATE SERVICE (cont'd)

F. Prices

1. Service Elements

Description /Billing Code/	Nonrecurring Charge
Administrative Charge - per order /ORCMX/	$60.00
Design and Central Office Connection Charge - per circuit /NRBCL/	187.00
Customer Connection Charge - per termination /NRBBL/	240.00

		Monthly Payment *Term Payment Plans*[1/]		
Description /Billing Code/	Monthly	12 Months	36 Months	60 Months
Local Distribution Channel - per point of termination /T6ECS/	$18,031.00 (I)	$103.00	$88.00	$88.00
Channel Mileage Termination - per point of termination /CM6/	2,796.00 (I)	17.40	14.00	14.00
Channel Mileage - per mile /1L5XX/	265.00 (I)	1.30	1.20	1.20

Optional Features and Functions

Description /Billing Code/	Nonrecurring Charge
Shared Network Arrangement - processing charge, per order /NRBOP/	$36.00

		Monthly Payment *Term Payment Plans*[1/]		
Description /Billing Code/	Monthly	12 Months	36 Months	60 Months
Multipoint Bridging - per port /B5NGF/	$28.00	$28.00	$28.00	$28.00
Secondary Channel - per local distribution channel /SCA/	0.00			

/1/ Effective December 1, 2006, Term Payment Plans (TPP) for Base Rate Service are grandfathered. Existing customers may remain on their current plan until the existing term expires. Upon expiration, customers will be charged the current monthly rate.

BASE RATE SERVICE (cont'd) /2/

F. Prices (cont'd)

2. Payment Plans

   - Month to Month
     Base Rate Service is available on a month to month basis.

   - Term Payment Plans/1/
     Base Rate Service is available under the Term Payment Plan (TPP) whereby customers must select either a 12, 36 or 60 month period. After the selected Term Payment Plan period is satisfied, the monthly rate will apply unless a new TPP is selected. Refer to *Term Payment Plans* in Part 15, Section 1.

   - Single Payment Option (SPO)
     A Single Payment Option is available for this service. Refer to *Term Payment Plans - Single Payment Option* in Part 15, Section 1.

3. Termination Charges

   Termination Charges will apply to service terminated prior to the contracted period. The termination charge for all TPP terms/1/ for Base Rate Service will be calculated as described in *Term Payment Plans - Termination Charges* in Part 15, Section 1.

4. Credit Allowance

   A credit allowance will be given for failure to meet the installation interval service date or for interruption of service. Refer to Credit Allowances in Part 15, Section 1 for calculating credit allowances.

/1/ Effective December 1, 2006, Term Payment Plans (TPP) for Base Rate Service are grandfathered. Existing customers may remain on their current plan until the existing term expires. Upon expiration, customers will be charged the current monthly rates. /2/
/2/ Material formerly appeared in Part 15, Section 3.