

**PRIVATE LINE SERVICES****Channels**

Series 1000 - Types 1005 and 1006 (Maintenance Only)

**General**

1. Teletypewriter station equipment must operate at a line signaling speed not to exceed that specified for the channel facilities furnished.
2. Business machines or business machine system which assemble, store or process data may be connected to private line teletypewriter facilities (see Types 1005 and 1006 below) furnished by the Telephone Company by continuous tape relay, or, through connecting equipment furnished by the Telephone Company, by a direct electrical connection, for the purpose of receiving or transmitting such data in the form of teletypewriter signals; provided that such customer-provided machines or systems are so constructed, maintained and operated as to work satisfactorily with the facilities of the Telephone Company, and provided further that channels of the Telephone Company shall not, through such connection, be interconnected with the channels of others, except as provided in Part 2 of the Guidebook.

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**Description**

1. Type 1005 is a half-duplex or full-duplex interface engineered for a signal speed up to 75 baud, 20+ 1 or 62.5+ 2.5 milliamperes neutral signals from Telephone Company equipment; furnished for remote operation of radio telegraph, teletypewriter, teletypewriter, data, supervisory control and miscellaneous signaling purposes. Available for two-point or multipoint service, intra-exchange or inter-exchange.
2. Type 1006 is a half-duplex or full-duplex EIA Standard RS232C type interface engineered for a signal speed up to 150 baud; furnished for teletypewriter, data, supervisory control and miscellaneous signaling purposes. Available for two-point or multipoint service, intra-exchange or inter-exchange.

**PRIVATE LINE SERVICES (cont'd)****Channels (cont'd)**

Series 1000 - Types 1005 and 1006 (Maintenance Only) (cont'd)

**Provisions**

1. Applicable to Type 1005 (75 baud channels)
  - a. Where the Telephone Company provides transmission equipment at the interface, the customer must provide a source of continuous 117 volt, 60Hz ac power by means of a nonswitched outlet.
  - b. Additional terminations furnished in the same building or on the same continuous property are limited to a maximum of three.
  - c. 100 speed teletypewriter service is designed for automatic transmission. Manual keyboard transmission is not suitable for other than coordinating and incidental communications.
2. Applicable to Type 1006 (150 baud channels)
  - a. The customer must in all cases provide a source of continuous 117 volt, 60Hz ac power by means of a nonswitched outlet.
  - b. Additional terminations are not furnished within the same building or between buildings on the same continuous property.

**PRIVATE LINE SERVICES (cont'd)****Channels (cont'd)**

Series 1000 - Types 1005 and 1006 (Maintenance Only) (cont'd)

## 1. Intra-exchange

		Nonrecurring Price	Monthly
		Initial	Additional
a.	Local Channel, each		
	Type 1005 /25W++/25Z++/	#\$305.00	\$36.75
	Type 1006 /25W++/25Z++/	# 335.00	65.50
b.	Building Channel Termination, each		
	Type 1005 /285/286	# 255.00	10.80
	Type 1006 /285/286	# 255.00	13.80

# Premise Work Charges As Specified In Part 3 Apply.

**PRIVATE LINE SERVICES (cont'd)****Channels (cont'd)**

Series 1000 - Types 1005 and 1006 (Maintenance Only) (cont'd)

## 2. Inter-exchange

		Nonrecurring Price	Monthly	
		Initial	Additional	Price
a.	Inter-exchange Channel, per airline mile or fraction			
	Type 1005 /1L1N4/1L684/1LY84/1L314/			
	0 to 40 miles	-	-	\$ 4.70
	41 miles and over	-	-	1.80
	Type 1006 /1LY84/1L684/1L314			
	0 to 40 miles /01N/	-	-	10.70
	41 miles and over	-	-	4.60
b.	Inter-exchange Channel Terminal, each (based on Inter-exchange Channel length)			
	Type 1005			
	0 to 40 miles /01N/	-	-	14.80
	41 miles and over / 03N/	-	-	11.70
	Type 1006			
	0 to 40 miles /01N/	-	-	28.50
	41 miles and over /03N/	-	-	21.50
c.	Local Channel, each			
	Type 1005 /25W++/25Z++/	#\$325.00	#\$250.00	56.50
	Type 1006 /25W++/25Z++/	# 345.00	# 270.00	81.50

# Premise Work Charges As Specified In Part 3 Apply.

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### PRIVATE LINE SERVICES (cont'd)

#### Channels (cont'd)

Series 1000 - Types 1005 and 1006 (Maintenance Only) (cont'd)

2. Inter-exchange

		Nonrecurring Price		Monthly
		Initial	Additional	Price
d.	Building Channel Termination, each			
	Type 1005 /26F++/26C++/	#\$255.00	#\$140.00	\$10.80
e.	Continuous Property Channel, in addition to d. above			
	When the distance between the buildings is 10,000 feet or less			
	Type 1005	-	-	7.00
	When the distance between the buildings is greater than 10,000 feet.			
	Type 1005	-	-	27.25
f.	Move Charge			
	Types 1005 and 1006	59.00	-	-

# Premise Work Charges As Specified In Part 3 Apply.

**PRIVATE LINE SERVICES (cont'd)****Other Features and Arrangements**

## Alternate Use of Channel Facilities (Maintenance Only)

## General

Certain combinations of services furnished on an alternate use basis are covered in this Guidebook and may be obtained only in accordance with the provisions therein. Except as provided therein, facilities furnished under any of the tariffs, or Guidebook of this Company may be used alternately for any other purpose or purposes for which they are suited, subject to the provisions stated below and to the other provisions of this Guidebook under which the facilities are furnished.

The frequency range, speed and other characteristics of signals transmitted must fall within those specified for the channel furnished.

The purpose or purposes for which the private line service is to be used must be made known to the Telephone Company prior to such use.

Station equipment, station wiring and switching keys required in connection with the alternate use may be furnished by the customer or authorized user subject to the provisions specified in Miscellaneous Equipment (Maintenance Only) following. (C)

Connection of channel facilities to other facilities furnished by the Telephone Company may not be set up a central office switchboards, private branch exchanges or other switching arrangements is such connection would involve a use other than those for which the switch boards or switching arrangements are furnished.

During the period of use for any purpose the provisions applicable to channels furnished specifically for that purpose apply.

Alternate use is available on two-point services; on services involving more than two points, alternate use will be permitted where facility conditions permit.

In case one of the purposes for which the channel facilities are to be used requires a type of channel for which a higher price applies than for the other purpose or purposes, the higher channel price applies.

**PRIVATE LINE SERVICES (cont'd)****Other Features and Arrangements (cont'd)**

Alternate Use of Channel Facilities (Maintenance Only) (cont'd)

General (cont'd)

Series 2000 and 3000 Local Channels may be arranged for different types of transmission on an alternate use basis, as follows:

The customer may at will switch from one type of operation to another but only one type of operation may be used at any 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 Arrangement prices specified in the following are in addition to all other prices applicable for the type of operation, the type of Local Channel required, and the equipment furnished in connection with private line services.

Prices for channels are as specified in Part 15, the higher of the prices for alternative Local Channel types being applicable.

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### PRIVATE LINE SERVICES (cont'd)

#### Other Features and Arrangements (cont'd)

Alternate Use of Channel Facilities (Maintenance Only) (cont'd)

	Nonrecurring Price		Monthly Price
	Initial	Additional	
Type 2001 Local Channel (Private Line Telephone) arranged for alternate use with Type 3002 Local Channel (Data transmission) - Per arrangement /37R/	\$190.00	\$81.00	\$20.50

**PRIVATE LINE SERVICES (cont'd)****Other Features and Arrangements (cont'd)**

## Miscellaneous Equipment (Maintenance Only)

Furnished for use with Type 2001 Channels (Remote Metering, Supervisory Control and Miscellaneous Signaling)

	Nonrecurring Price	Monthly Price
Protective Equipment		
Drainage Coils - to minimize the effect of induced voltages, each /PZ2/	\$ 25.00	\$ 4.70
Neutralizing Transformers - for use at customer's premises where there are high ground potentials		
Equipment rated at 2,000 volts, each /PP2/	50.00	3.45
Equipment rates at 4,000 volts, each /PQ2/	100.00	6.80
Isolating Transformers - for use with private line services requiring alternating current transmissions, per transformer provided (four-wire channels require two transformers per termination), each /PKX/	25.00	35.25

**PRIVATE LINE SERVICES (cont'd)**

**Multistation Service**

Definition

Communications capability between three or more dedicated communications station locations located on the same premises constituting a common dedicated communications system.

General

When additional terminations of a channel are bridged at the customer's premises, a Building Channel Termination price applies for each termination connected to the bridge and a Multistation Service monthly price applies for each bridge on the premises.

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### PRIVATE LINE SERVICES (cont'd)

#### Multistation Service (cont'd)

	Nonrecurring Price Initial	Nonrecurring Price Additional	Monthly Price
Type 2001, each bridge /MPGSX/MSV++/	##\$145.00	##\$89.00	\$10.20
Type 3001 and 3002 Per Bridge, each /MSV++/	# 145.00	# 89.00	10.20

# Premise Work Prices as specified in Part 3 apply.

**ENTRANCE FACILITIES (GRANDFATHERED)**

Effective April 15, 1983, Entrance Facilities, as defined below, are not offered for new installations. Existing services, as specified in the Types and Descriptions following, will remain under the entrance facility provisions until discontinued or changed for any reason. Prices and provisions applicable to new facilities of this type ordered by customers subsequent to April 15, 1983 are as specified elsewhere in this Guidebook.

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**Types and Description**

Entrance facilities are furnished to the customer by the Telephone Company for the purpose of extending customer-provided communications systems to a premises of the customer or authorized user. Channels are furnished for single or duplex operation on a two-point basis.

These channels are similar in transmission characteristics to those furnished for private line telephone service and are furnished 24-hours per day, seven-days per week, for a minimum period of one month.

**General**

In addition to the provisions set forth in the General section of Part 15, the following provisions apply to entrance facilities:

These channels are furnished to extend a customer-provided communications channel, voice grade or less, to a customer's or authorized user's premises which must be located 25 airline miles or less from the point at which the customer-provided communications channel is connected to the Telephone Company entrance facility.

Allowance for interruptions are as provided in General, Channels and Customer Operating Center Service of this Section.

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**ENTRANCE FACILITIES (GRANDFATHERED) (cont'd)**

	<u>Nonrecurring Price</u>	<u>Monthly Price</u>
<u>Anderson Police Department</u> - Anderson IBT portion of entrance facilities between 700 Meridian Street and Pendleton State Police Post at Junction State Road 9 and State Road 67	-	\$ 74.00
<u>Evansville Police Department</u> - Evansville Entrance facilities between 15 Northwest 7th Street and Evansville State Police	-	85.50
<u>Logansport Police Department</u> - Logansport IBT portion of entrance facilities between 6th and Broadway and Peru State Police Post on US 31 and Eel River Cemetery Road	\$232.00	181.00
<u>Michigan City Police Department</u> - Michigan City IBT portion of entrance facilities between 102 W. Second Street and Dunes Park State Police Post at Junction of U.S. 20 and State Road 49	50.00	85.00
<u>Greene County Sheriff</u> - Bloomfield Entrance facilities between 217 East Spring Street and Bloomington State Police Post	50.00	136.00
<u>Bloomington Police Department</u> - Bloomington Entrance facilities between 122 South Walnut Street and Bloomington State Police Post	25.00	45.00
<u>Huntington Police Department</u> - Huntington IBT portion of entrance facilities between Cherry and Market Streets and Fort Wayne State Police Post	50.00	157.00
<u>Bedford Police Department</u> - Bedford Entrance facilities between 1617 K Street and Bloomington State Police Post	50.00	125.00

**ENTRANCE FACILITIES (GRANDFATHERED) (cont'd)**

	<u>Nonrecurring Price</u>	<u>Monthly Price</u>
<u>Indiana University Security</u> - Bloomington Entrance facilities between 801 North Jordan and Bloomington State Police Post	\$ 50.00	\$ 94.50
<u>Madison County Sheriff</u> - Anderson IBT portion of entrance facilities between 204 East Eighth Street and Pendleton State Police Post	25.00	57.00
<u>Bluffton Police Department</u> - Bluffton IBT portion of entrance facilities between 200 East Market and Fort Wayne State Police Post	100.00	287.00
<u>Howard County Sheriffs Department</u> - Kokomo Full duplex channel between Howard County Court House, Kokomo and Indiana State Police Post at U.S. 31 and Eel River	464.00	193.00
<u>New Castle Police Department</u> - New Castle IBT portion of entrance facilities between 227 N. Main and Pendleton State Police Post at junction State Road 9 and State Road 67	100.00	319.00
<u>Grissom Air Force Base</u> - Bunker Hill Full duplex channel between Building 410, Bunker Hill and Indiana State Police Post at U.S. 31 and Eel River Cemetery Road, Peru	464.00	315.00
<u>South Bend Community Schools</u> - South Bend IBT portion of entrance facilities between 635 South Main, South Bend and Indiana State Police Post at 1425 Miami Trail, Bremen	232.00	78.50

**ENTRANCE FACILITIES (GRANDFATHERED) (cont'd)**

	Nonrecurring Price	Monthly Price
<u>Monroe County Sheriff</u> - Bloomington Entrance facilities between 116 S. Walnut and Bloomington State Police Post	\$25.00	\$ 54.00
<u>Chesse System</u> - Peru Entrance facilities between customer's yard office and the old passenger depot on U.S. 31 North - each 4 wire circuit facility (eight authorized)	40.00	6.40
<u>Associated Truck Lines, Inc.</u> - South Bend Entrance facilities between the intersection of Grand Trunk Railroad tracks and Arnold Street and 1130 Olive Street	50.00	139.00
<u>Attica City Police Department</u> - Attica IBT portion of entrance facilities between 220 S. McDonald Street and Battleground State Police Post	80.00	169.00
<u>Vanderburgh County Sheriff</u> - Evansville Entrance facilities between 15 N.W. Seventh St. and Evansville State Police Post at 19411 U.S. Highway 41 North	80.00	184.00
<u>Evansville City Police</u> - Evansville Entrance facilities between 15 N.W. Seventh St. and Evansville State Police Post at 19411 U.S. Highway 41 North	80.00	184.00
<u>Lawrence County Court</u> - Bedford Entrance facilities between the Court House and Bloomington State Police Post at Junction S.R. 46 By-Pass and S.R. 146	80.00	155.00

**ENTRANCE FACILITIES (GRANDFATHERED) (cont'd)**

	Nonrecurring Price	Monthly Price
<u>New Albany Police Department</u> - New Albany Entrance facilities between West First Street and Spring Avenue and Sellersburg State Police Post at 8102 Highway 311	\$80.00	\$125.00
<u>Clarksville Police Department</u> - Clarksville Entrance facilities between 230 E. Montgomery and Sellersburg State Police Post at 8102 Highway 311	80.00	150.00
<u>Jeffersonville Police Department</u> - Jeffersonville Entrance facilities between 500 E. Court Avenue and Sellersburg State Police Post at 8102 Highway 311	80.00	131.00
<u>Highland Police Department</u> - Highland Full duplex channel between 1505 East 181st Ave., Lowell and 3333 Ridge Road, Highland	80.00	353.00
<u>Hammond Police Department</u> - Hammond Full duplex channel between 1505 East 181st Ave., Lowell and 5925 Calumet Avenue, Hammond	80.00	228.00
<u>Gary Police Department</u> - Gary Full duplex channel between 1505 East 181st Ave., Lowell and 1301 Broadway, Gary	80.00	205.00
<u>East Chicago Police Department</u> - East Chicago Full duplex channel between 1505 East 181st Ave., Lowell and 2301 East Columbus Drive, East Chicago	80.00	286.00
<u>Griffith Police Department</u> - Griffith Full duplex channel between 1505 East 181st Ave., Lowell and 115 North Broad Street, Griffith	80.00	290.00

**ENTRANCE FACILITIES (GRANDFATHERED) (cont'd)**

	Nonrecurring Price	Monthly Price
<u>Kokomo Police Department</u> - Kokomo Full duplex channel between 215 W. Superior, Kokomo and Indiana State Police Post at U.S. 31 and Eel River Cemetery Road, Peru	\$464.00	\$188.00
<u>Lake County Sheriffs Department</u> - Crown Point Full duplex channel between 1550 East 181st Ave., Lowell and 2293 North Main Street, Crown Point	80.00	155.00
<u>Merrillville Police Department</u> - Merrillville Full duplex channel between 1150 East 181st Ave., Lowell and 13 West 73rd Ave., Merrillville	80.00	196.00
<u>U.S. Department of Justice Drug Enforcement Administration</u> - Hammond Full Duplex channel between 1550 East 181st Street, Lowell and 507 State Street, Hammond	80.00	274.00
<u>Crown Point Police Department</u> - Crown Point Full Duplex channel between 1550 East 181st Street, Lowell and 100 E. Clark Street, Crown Point	80.00	144.00
<u>Schererville Police Department</u> - Schererville Entrance Facilities between 1641 Wilson Street and Lowell State Police Post	80.00	230.00
<u>Dyer Police Department</u> - Dyer Entrance Facilities between 230 Schulte Street and Lowell State Police Post	80.00	258.00

**ENTRANCE FACILITIES (GRANDFATHERED) (cont'd)**

	<u>Nonrecurring Price</u>	<u>Monthly Price</u>
<u>Peru Police Department</u> - Peru Full duplex channel between 21 East 3rd Street, Peru and Indiana State Police Post at U.S. 31 and Eel River Cemetery Road, Peru.	\$464.00	\$ 86.00
<u>Columbus Police Department</u> - Columbus IBT portion of entrance facilities between 123 Washington Street and Seymour State Police Post on U.S. 50.	464.00	127.00
<u>Bartholomew County Sheriff</u> - Columbus IBT portion of entrance facilities between 350 W. Second Street and Seymour State Police Post on U.S. 50.	464.00	146.00
<u>Munster Police Department</u> - Munster Full duplex channel between 1001 Ridge Road, Munster and Indiana State Police Post at 1550 East 181st Avenue, Lowell.	464.00	168.00
<u>Northern Indiana Public Service Company</u> - Gary Four wire voice channel between 1000 Idaho Street and 840 Broadway.	195.00	84.00
<u>Public Service Indiana</u> - New Albany Voice Channel between Gallagher Station, New Albany and customer's location at 2125 Lincoln Avenue, Jeffersonville.	346.00	144.00
<u>Cass County Sheriffs Department</u> - Logansport IBT portion of entrance facilities between 200 Court Park, Logansport and Indiana State Police Post at U.S. 31 and Eel River Cemetery Road, Peru.	232.00	143.00

**OPTINET<sup>/1/</sup>****General**

OPTINET provides for the simultaneous two-way transmission of digital signals at synchronous speeds of 2.4, 4.8, 9.6, 56, 64, 128.0, 256.0, 384.0 Kilobits or 1.544 Megabits per second (Kbps/Mbps).

OPTINET Services are divided into two categories:

OPTINET DS1 Service which is comprised of channels at the terminating bit rate of 128.0 Kbps, 256.0 Kbps, 384.0 Kbps and 1.544 Mbps.

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/1/ Effective November 15, 1999, OPTINET DS1 Service is no longer available to new customers. No changes will be permitted to any existing circuits. Current customers may keep their existing service until July 1, 2008, at which time the service will be discontinued. Current customers under a Variable Term Payment Plan (VTPP) may convert to an DS1 Service Term Payment Plan (TPP) at no charge as long as the number of months remaining on the VTPP are greater than or equal to the TPP being subscribed to. Customers with either 84-month or 120-month VTPPs with 60 or more months remaining on their contract may convert to a 60-month TPP with no termination liability. When a VTPP contract expires, the customer must either select a DS1 TPP or disconnect the service. Existing OPTINET DS1 customers currently being served on a month-to-month basis may keep their service until July 1, 2008.

**OPTINET (cont'd)****General (cont'd)****OPTINET DS1 Service Description**

1. OPTINET DS1 Service is a two-point dedicated communications service consisting of digital channels and equipment to provide for simultaneous two-way transmission of a serial, bipolar, return-to-zero, isochronous digital signal at a rate of 128.0 Kbps, 256.0 Kbps, 384.0 Kbps and 1.544 megabits per second (Mbps).
2. The service is furnished for duplex operation on a twenty-four hour per day, seven day per week basis, for a minimum period of 12 months.
3. Customer-provided terminal equipment, customer-provided multiplexing equipment, and customer-provided communications systems may be connected with facilities furnished for OPTINET DS1 Service when such connections are made in accordance with the provisions set forth in Connections B. Part 2, Section 9 of this Guidebook. Customer-provided equipment will not be permitted in Telephone Company central offices. (T)
4. Telephone Company-provided multiplexing equipment may be supplied at the foreign exchange central offices that provide Foreign Exchange Service. Telephone Company-provided multiplexing equipment or Open Interface arrangement as provided in Part 5 of this Guidebook may be supplied in Centrex CO equipped central offices. This equipment will provide 24 voice and/or substrate data channels over the 1.544 Mbps facilities (not available with 128.0 Kbps, 256.0 Kbps or 384.0 Kbps facilities). Services provisioned over the 1.544 Mbps facilities on channels derived via central office located multiplexing equipment must all terminate in those offices except data services. (T)

**OPTINET (cont'd)****General (cont'd)**

## OPTINET DS1 Service Description (cont'd)

5. The OPTINET DS1 Service may be used to connect:

Two customer premises for communications between those premises that may be in the same exchange or between exchanges, or

A customer's premises and a Telephone Company Centrex CO or foreign exchange central office that may be in the same exchange or between exchanges, or

Two Centrex CO central offices that may be in the same exchange or between exchanges.

**Provisions**Undertaking of the Telephone Company

The OPTINET DS1 Service can only be provided from central offices equipped for digital transmission where suitable facilities are available. Service inquiry must be made to determine availability of service.

The Network Interface requirements for OPTINET DS1 are specified in the Bell System Technical Reference Pub. 62411, "High Capacity Digital Service Channel Interface Specification," September, 1983.

Minimum Service Period

The minimum period of service is one year for OPTINET DS1 Service, except as provided elsewhere.

## Allowance for Interruptions

OPTINET DS1 Service

No credit is allowed for interruption to service less than 30 minutes. An interruption period starts when an inoperative service is released by the customer to the Telephone Company for testing/repair and ends when the service is operative. The customer must make the circuit available for testing by the Telephone Company and provide access as needed. Suspension of the calculated interruption period will occur when access to the customer premises can not be gained or the customer does not release the circuit experiencing trouble.

**OPTINET (cont'd)****Provisions (cont'd)**

Allowance for Interruptions (cont'd)

OPTINET DS1 SERVICE (cont'd)

<u>Interruption Period</u>	<u>Credit Allowance Schedule</u>		<u>Applicable Credit</u>
<u>Interruption Period Credit Per Interruption</u>	<u>Interruption Period Credit Per Interruption</u>		
More than 30 minutes, but less than 2 hours		1/1440th per 30 minute Interval	
2 Hours to 4 Hours Local Distribution Channel	*\$35.00	Over 4 Hours Local Distribution Channel	*\$75.00
Channel Mileage	* 7.00	Channel Mileage	* 10.50

No credit allowance will be made for:

- (1) Interruptions caused by the negligence of the customer.
- (2) Interruptions of a service due to the failure of equipment or systems provided by the customer or others.
- (3) Interruptions of a service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.
- (4) Interruptions of a service when the customer has released that service to the Telephone company for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service during the time that was negotiated with the customer prior to the release of that service. Thereafter, a credit allowance as set forth preceding applies.

\* or 1/1440 per 30 minute interval whichever is greater.

**OPTINET (cont'd)**

**Provisions(cont'd)**

Allowance for Interruptions (cont'd)

OPTINET DS1 SERVICE (cont'd)

(5) Interruptions of a service which continue because of the failure of the customer to authorize replacement of any element of special construction. The period for which no credit allowance is made begins on the seventh day after the customer receives the Telephone Company's written notification of the need for such replacement and ends on the day after receipt by the Telephone Company of the customer's written authorization for such replacement.

Long distance message telecommunications service furnished at the customer's request when his service utilizing interexchange OPTINET is interrupted is charged for at the regular prices for long distance message telecommunications service.

**OPTINET (cont'd)****Service Components****Clear Channel Capability**

Provided by using a line coding technique known as Bipolar 8-Zero Substitution (B8ZS) which increases user-accessible band width to 1.536 Hbps or 64 Kbps per channel on point to point Direct High Capacity Service.

**Network Interface**

The Network Interface is that portion of the Local Distribution Channel that provides a standard interface at the 128.0 Kbps, 256.0 Kbps, 384.0Kbps or 1.544 Mbps rate.

**OPTINET (cont'd)****Options and Conditions under VTPP****Optional Payment Period Renewal Program Option**

The Optional Payment Period (OPP) Renewal Program offers OPTINET DS1 customers who are within six months of completing an existing 36-month or greater Optional Payment Period (OPP) term, a one-time renewal credit in return for committing to a new OPP term of either 36 or 60 months. The OPP Renewal Program is limited to customers whose OPTINET channels operate at the terminating bit rate of 1.544 Mbps. The amount of the one-time credit will be dependent upon the customer's existing (completed) OPP term and the length of the new/renewed OPP term.

To qualify for the OPP Renewal Program, customers must complete their existing 36-month or 60-month OPP term and commit to a consecutive 36-month or 60-month OPP term beginning with the expiration of their existing 36-month or 60-month OPP term. Customers who wish to participate in the OPP Renewal Program will receive a renewal credit for each DS1 Local Distribution Channel service component renewed under the OPP Renewal Program. The renewal credit will be applied to the customer's monthly bill at the time the renewed OPP term begins.

The OPP Renewal Program is an optional offering. Customers may choose not to renew their qualifying services under the program, in which case no credit will be provided. Customers who choose to renew qualifying services under the program will have the renewal credit automatically credited to the account under which the renewed service is billed at the time the renewed OPP term begins.

Customers terminating a service component that was renewed under the OPP Renewal Program prior to the expiration of the renewed OPP term shall be liable for an OPP renewal termination charge. The charge will be equal to the renewal credit originally provided plus the dollar difference between the current OPP rate for an OPP term that could have been completed during the time the renewed service was actually in service, or the monthly rate for services in place less than 12 months, and the customer's current OPP rates for each month the renewed service was provided.

**OPTINET (cont'd)****Options and Conditions under VTPP (cont'd)**

## Optional Payment Period Renewal Program Option (cont'd)

The following OPP renewal credits will apply to any orders for OPP renewal received under the OPP Renewal Program between July 8, 1997 and July 7, 1998.

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

Service Component	OPP Renewal Credit	
	36-Month	60-Month
<b>DS1 Local Distribution Channel</b>		
1st Channel, 0-2 miles	\$230.00	\$460.00
1st Channel, each add'l mile or fraction	100.00	190.00
2nd Channel, 0-2 miles	190.00	380.00
2nd Channel, each add'l mile or fraction	80.00	160.00
3rd Channel, 0-2 miles	180.00	360.00
3rd Channel, each add'l mile or fraction	70.00	140.00
4th Channel, 0-2 miles	170.00	330.00
4th Channel, each add'l mile or fraction	60.00	110.00

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### OPTINET (cont'd)

#### Options and Conditions under VTPP (cont'd)

Optional Payment Period Renewal Program Option (cont'd)

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

Service Component	OPP Renewal Credit	
	36-Month	60-Month
<b>DS1 Local Distribution Channel</b>		
1st Channel, 0-2 miles	\$390.00	\$770.00
1st Channel, each add'l mile or fraction	160.00	320.00
2nd Channel, 0-2 miles	320.00	640.00
2nd Channel, each add'l mile or fraction	140.00	270.00
3rd Channel, 0-2 miles	300.00	590.00
3rd Channel, each add'l mile or fraction	120.00	230.00
4th Channel, 0-2 miles	280.00	550.00
4th Channel, each add'l mile or fraction	90.00	180.00

**OPTINET (cont'd)****OPTINET DS1 Service**

## A. Local Distribution Channel

1. A Nonrecurring Price-Initial applies to the installation of the first Digital Local Distribution Channel to each premise.

A Nonrecurring Price-Additional applies to the installation of each additional Local Distribution Channel furnished to the same premises at the same time as the first Local Distribution Channel.

2. Prices:

Local Distribution Channel,  
128.0 Kbps, 256.0 Kbps  
384.0 Kbps and 1.544 Mbps

## Nonrecurring Prices \*

## Initial:

0 to 1/2 mile	#\$1,700.00
1/2 to 1 mile	# 1,900.00
over 1 mile	
first mile	# 1,900.00
each additional mile or fraction thereof	# 185.00

## Additional:

per channel	# 850.00
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\* For those customers who choose an Optional Payment Period (OPP) of 36 months or greater in length, Nonrecurring Prices for installation of each Local Distribution Channel, Initial and Additional, 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 OPP term will become liable for payment of Nonrecurring Prices for installation.

**OPTINET (cont'd)****OPTINET DS1 Service (cont'd)**

## Monthly Prices

	1 Month	Optional Payment Period Monthly Prices				
		36 Months	60 Months	84 Months	120 Months	
1st Channel 0-2 Mile /LLHP6/ each additional mile or fraction thereof @ /LLHPA/	V.2 145.00	\$375.00(I) 145.00	\$190.00 75.00	\$170.00 65.00	\$155.00 60.00	\$145.00 55.00
2nd Channel 0-2 Mile /LLHP7/ each additional mile or fraction thereof @ /LLHPB/	V.2 120.00(I)	315.00 120.00(I)	160.00 60.00	140.00 55.00	130.00 45.00	120.00 45.00
3rd Channel 0-2 Mile /LLHP8/ each additional mile or fraction thereof @ /LLHPC/	V.2 105.00	285.00(I) 105.00	140.00 50.00	125.00 45.00	115.00 40.00	105.00 40.00
4th or more Channel 0-2 Mile /LLHP9 each additional mile or fraction thereof @ /LLHPD/1	V.2 V.1 -	255.00 85.00(I) 170.00	130.00 40.00 165.00	115.00 35.00 160.00	105.00 35.00	95.00 30.00 -

@ Up to a maximum of 8 miles. Channels over 8 miles will be treated on an individual case basis and charges will be based on costs.

# Premises Work Charges as specified in Part 3 apply.

3rd Channel 0-2 Mile /LLHP8/ each additional mile or fraction thereof @ /LLHPC/	V.2 105.00	285.00(I) 105.00	140.00 50.00	125.00 45.00	115.00 40.00	105.00 40.00
4th or more Channel 0-2 Mile /LLHP9 each additional mile or fraction thereof @ /LLHPD/1	V.2 V.1 -	255.00 85.00(I) 170.00	130.00 40.00 165.00	115.00 35.00 160.00	105.00 35.00	95.00 30.00 -

@ Up to a maximum of 8 miles. Channels over 8 miles will be treated on an individual case basis and charges will be based on costs. /LLHPE/

Volume discounts applicable to additional Local Distribution Channels apply only to channels utilizing the same route between the serving central office and the customers premises.

**OPTINET (cont'd)****OPTINET DS1 Service (cont'd)**

## B. Interoffice Digital Channel

1. A Nonrecurring Price-Initial applies to the installation of the first Interoffice Digital Channel between two Digital Central offices.

A Nonrecurring Price-Additional applies to the installation of each additional Interoffice Digital Channel furnished between the same two Digital Central Offices at the same time as the first Interoffice Digital Channel.

Item	Nonrecurring Price <sup>/1</sup> Initial	Nonrecurring Price <sup>/1</sup> Additional	Monthly Price
Channel Mileage 1.544 Mbps			
Intra-exchange:			
First mile, or fraction thereof /1LNPX/	\$1,700.00	\$560.00	\$65.00(I)
Each additional mile, or fraction thereof /1LNPX/	-	-	65.00
Interexchange:			
First mile, or fraction thereof /1LWPX/	1,700.00	560.00	65.00
Each additional mile, or fraction thereof /1LWPX/	-	-	65.00(I)
128.0, 256.0, and 384.0 Kbps			

/1/ For those customers who choose an Optional Payment Period of 36 months or greater in length, Nonrecurring Prices for installation of Interoffice Digital Channel, Initial and Additional, 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 OPP term will become liable for payment of Nonrecurring Prices for installation.

**OPTINET (cont'd)****OPTINET DS1 Service (cont'd)**

## B. Interoffice Digital Channel (cont'd)

Item	Nonrecurring Price <sup>/1/</sup> Initial	Nonrecurring Price <sup>/1/</sup> Additional	Monthly Price
<b>Intra-exchange:</b>			
First mile, or fraction thereof /1LNPX/	\$1,700.00	\$560.00	\$40.00(I)
Each additional mile, or fraction thereof /1LNPX/	-	-	40.00
<b>Interexchange:</b>			
First mile, or fraction /1LWPX/	1,700.00	560.00	40.00
Each additional mile, or fraction thereof /1LWPX/	-	-	40.00(I)

/1/ For those customers who choose an Optional Payment Period of 36 months or greater in length, Nonrecurring Prices for installation of Interoffice Digital Channel, Initial and Additional, 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 OPP term will become liable for payment of Nonrecurring Prices for installation.

**OPTINET (cont'd)****OPTINET DS1 Service (cont'd)**

## C. Central Office Located Multiplexing Assembly

1. Each multiplexing assembly provides capacity, power, and common equipment for 48 channelizing plug-ins using up to two 1.544 Mbps channels.
2. Prices:

Item	Nonrecurring Prices	Optional Payment Periods Monthly Prices				
		1 Month	36 Months	60 Months	84 Months	120 Months
Multiplexing Assembly/VUM/	\$360.00	\$540.00(I)		\$245.00	\$230.00	\$215.00
(48 plug-in capacity)	V.2		\$280.00			
	V.1		260.00			

## D. Optional Features and Functions

## 1. Clear Channel Capability

A Nonrecurring price applies for each High Capacity (1.544 Mbps) circuit arranged for Clear Channel Capability.

## 2. Per Circuit

## Nonrecurring Prices

When installed at the time the circuit is installed \$350.00

When added to an existing circuit 376.00

**OPTINET (cont'd)**

**OPTINET DS1 Service (cont'd)**

E. Channel Plug-Ins

1. A Nonrecurring Charge Applies to the installation of each Channel Plug-In ordered and installed at the same time and at the same premises as the associated Telephone Company-provided multiplexing assembly.
2. A Reconfiguration Charge, as defined in F. following, applies to the Channel Plug-Ins ordered and installed subsequent to the installation of the associated Telephone Company-provided multiplexing assembly.
3. One Channel Plug-In will derive one channel per end and requires one slot of plug-in capacity except for the 56 Kbps Data Plug-In that requires two collateral slots of plug-in capacity to derive one channel.
4. Environmental constraints of the multiplexing assemblies limits the total data plug-in capacity of the multiplexing assembly.
5. Jacks installed as the termination of each derived channel and serving as the Standard Network Interface will be furnished as specified in Part 3.

**OPTINET (cont'd)****OPTINET DS1 Service (cont'd)**

## E. Channel Plug-Ins (cont'd)

## 6. Prices

Item	Nonrecurring Price	Monthly Price
Off-Premise Station Plug-Ins, each /VOM/	\$61.00	\$12.00(I)
Centrex Station Plug-Ins:		
(a) Loop Start, each /VXL/	61.00	12.00
(b) Ground Start, each /VXG/	61.00	12.00
Foreign Exchange Service Plug-Ins:		
(a) Loop Start, each /VFD/	61.00	12.00
(b) Ground Start, each /VFE/	61.00	12.00
Tie Line Plug-Ins:		
(Signaling originating on "M" lead)		
(a) Two-Wire, each /VQ2/	61.00	12.00
(b) Four-Wire, each /VQ4/	61.00	12.00
Tie Line Plug-Ins:		
(Signaling originating on "E" lead)		
(a) Two-Wire, each /VF2/	61.00	30.00
(b) Four-Wire, each /VF4/	61.00	30.00
Digital Data Plug-Ins		
(a) For 2.4 Kbps service, each /VD2/	61.00	30.00
(b) For 4.8 Kbps service, each /VD4/	61.00	32.50
(c) For 9.6 Kbps service, each /VD9/	61.00	35.00
(d) For 56 Kbps service, each /VD5/	61.00	42.50
Analog Data Plug-Ins		
(a) Two-Wire interface, each /VV2/	61.00	30.00
(b) Four-Wire interface, each /VV4/	61.00	25.00(I)

**OPTINET (cont'd)****OPTINET DS1 Service (cont'd)**

## F. Reconfiguration Charge

1. A Reconfiguration Price-Initial applies to the installation of a Channel Plug-In ordered and installed subsequent to the installation of its associated Telephone Company provided multiplexing assembly.
2. A Reconfiguration Price-Additional applies to the installation of each additional Channel Plug-In ordered and installed at the same time at the same location as the Channel Plug-In described in Reconfiguration Price-Initial above.
3. Charges:

Item	Reconfiguration Price	
	Initial	Additional
Reconfiguration Charge	\$165.00	-

## G. Move Charge

When moving OPTINET DS1 Service within the same building or continuous property, charges will be based on cost.

**OPTINET<sup>1/1</sup>****General**

The service is furnished or made available by the Indiana Bell Telephone Company, Inc. hereinafter referred to as the Telephone Company, within and between Telephone Company exchange areas.  
Description of Service

OPTINET is a service for the transmission of digital signals using only digital transmission facilities. OPTINET Base Rate Service which is comprised of channels operating at the terminating bit rates of 2.4, 4.8, 9.6, 56.0 and 64.0 Kbps.

/1/ Effective December 18, 2000, OPTINET Base Rate Service is no longer available to new customers. No changes will be permitted to any existing circuits. Customers with service currently provided under a Variable Term Payment Plan (VTPP) may keep their existing service until the expiration of their VTPP term or may convert to a Base Rate Service Term Payment Plan (TPP) at no charge as long as,

- A) The number of months subscribed to on the new TPP are equal to or greater than the months remaining on the existing VTPP term, and
- B) The number of circuits under the new TPP either remain the same as the VTPP or are increased.

When a VTPP contract expires, the customer must either convert to an Base Rate Service (either month-to-month or TPP), or disconnect the service. Existing OPTINET Base Rate customers currently being served on a month-to-month basis must either convert to Base Rate Service, month-to-month or TPP, or disconnect the service prior to September 15, 2001.

**OPTINET <sup>1/</sup>(cont'd)****General (cont'd)****OPTINET Base Rate Service Description**

The service is furnished for duplex operation on a twenty-four hour per day, seven day per week basis, for a minimum period of one month.

The service is guaranteed to provide an average performance exceeding 99.5% error-free seconds for operation at all speeds. When an OPTINET Base Rate Service is operating at an error performance level which is unsatisfactory to the customer or user and it is determined by the Telephone Company that the error performance level is below that specified above, the period of sub-standard performance will be considered as an interruption and a credit allowance will be made in accordance with the Allowance for Service Interruption provisions following. All such credit allowances shall begin from the time of notice by the customer or user to the Telephone Company that an unsatisfactory performance level has occurred, provided that the customer promptly releases the service as requested by the Telephone Company to perform testing and maintenance.

Terminal equipment, derivation equipment, and communications systems may be connected with facilities furnished for OPTINET Base Rate Service when such connections are made in accordance with the provisions set forth in Connections, Part 2.

/1/ Effective December 18, 2000, OPTINET Base Rate Service is no longer available to new customers. No changes will be permitted to any existing circuits. Customers with service currently provided under a Variable Term Payment Plan (VTPP) may keep their existing service until the expiration of their VTPP term or may convert to a Base Rate Service Term Payment Plan (TPP) at no charge as long as,

- A) The number of months subscribed to on the new TPP are equal to or greater than the months remaining on the existing VTPP term, and
- B) The number of circuits under the new TPP either remain the same as the VTPP or are increased.

When a VTPP contract expires, the customer must either convert to a Base Rate Service (either month-to-month or TPP), or disconnect the service. Existing OPTINET Base Rate customers currently being served on a month-to-month basis must either convert to Base Rate Service, month-to-month or TPP, or disconnect the service prior to September 15, 2001.

**OPTINET <sup>1/</sup>(cont'd)****General (cont'd)**

## OPTINET Base Rate Service Description (cont'd)

The design, maintenance and operation of OPTINET Base Rate Service contemplates communications originating or terminating at stations on OPTINET Base Rate Service. While connections to OPTINET Base Rate Service of communications systems provided by others may be made, the Telephone Company does not represent its OPTINET Base Rate Service as adapted for such connections, and shall not be responsible for the through transmission of signals, or the quality of such transmission on such connections.

The service is available for two point or multipoint service.

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- A) The number of months subscribed to on the new TPP are equal to or greater than the months remaining on the existing VTPP term, and
- B) The number of circuits under the new TPP either remain the same as the VTPP or are increased.

When a VTPP contract expires, the customer must either convert to Base Rate Service (either month-to-month or TPP), or disconnect the service. Existing OPTINET Base Rate customers currently being served on a month-to-month basis must either convert to Base Rate Service, month-to-month or TPP, or disconnect the service prior to September 15, 2001.

**OPTINET <sup>1/</sup>(cont'd)****General (cont'd)**

## Provisions

## Undertaking of the Telephone Company

In case a shortage of facilities exists, either for temporary or protracted periods, the provisions of exchange and message toll telephone services shall take precedence over all services.

The furnishing of OPTINET Service will require certain physical arrangements of the facilities of the Telephone Company and is therefore subject to the availability of such facilities.

All charges quoted in this Section provide for the furnishing of service or channels when suitable facilities are available or where the construction of the necessary facilities does not involve unusual costs. When the revenue to be derived from the service or channel does not warrant the Telephone Company assuming the costs of providing the necessary construction, the customer may be required to pay all or a portion of such costs and to contract for the service or channels for a sufficient period to warrant the construction, depending upon the circumstances in each case.

Special equipment and service arrangements for which provision is not otherwise made in this Section are furnished as provided for in Section 1.

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- A) The number of months subscribed to on the new TPP are equal to or greater than the months remaining on the existing VTPP term, and
- B) The number of circuits under the new TPP either remain the same as the VTPP or are increased.

When a VTPP contract expires, the customer must either convert to a Base Rate Service (either month-to-month or TPP), or disconnect the service. Existing OPTINET Base Rate customers currently being served on a month-to-month basis must either convert to Base Rate Service, month-to-month or TPP, or disconnect the service prior to September 15, 2001.

**OPTINET <sup>1/</sup>(cont'd)****Provisions (cont'd)**

## Undertaking of the Telephone Company (cont'd)

The Telephone Company's liability, if any, for its willful misconduct is not limited by this Guidebook. (T)  
With respect to any other claim or suit, by a customer or by any others, for damages associated with the installation, provision, termination, maintenance, repair, or restoration of service, the Telephone Company's liability, if any, shall not exceed an amount equal to the proportionate charge for the service for the period during which the service was affected. This liability shall be in addition to any amounts that may otherwise be due to the customer under this Guidebook as an allowance for interruptions. (T)

The Telephone Company shall be indemnified and saved harmless by the customer or user against:

- A. claims for libel, slander and infringement of copyright arising from the material transmitted over the facilities;
- B. claims for infringement of patents arising from combining with, or using in connection with, facilities furnished by the Telephone Company, apparatus and systems of the customer or authorized user; and
- C. all other claims arising out of any act of omission of the customer, or authorized user in connection with the facilities provided by the Telephone Company.

/1/ Effective December 18, 2000, OPTINET Base Rate Service is no longer available to new customers. No changes will be permitted to any existing circuits. Customers with service currently provided under a Variable Term Payment Plan (VTPP) may keep their existing service until the expiration of their VTPP term or may convert to a Base Rate Service Term Payment Plan (TPP) at no charge as long as,

- A) The number of months subscribed to on the new TPP are equal to or greater than the months remaining on the existing VTPP term, and
- B) The number of circuits under the new TPP either remain the same as the VTPP or are increased.

When a VTPP contract expires, the customer must either convert to a Base Rate Service (either month-to-month or TPP), or disconnect the service. Existing OPTINET Base Rate customers currently being served on a month-to-month basis must either convert to Base Rate Service, month-to-month or TPP, or disconnect the service prior to September 15, 2001.

**OPTINET <sup>1/</sup>(cont'd)****Provisions (cont'd)**

## Undertaking of the Telephone Company (cont'd)

The Telephone Company does not guarantee nor make any warranty with respect to equipment provided by it for use in an explosive atmosphere. The customer or authorized user indemnifies and holds the Telephone Company harmless from any and all loss, claims, demands, suits, or other action, or any liability whatsoever, whether suffered, made instituted or asserted by the customer or authorized user or by any other party or persons, for any personal injury to or death of any person or persons, and for any loss, damage or destruction of any property, whether owned by the customer or others, caused or claimed to have been caused directly or indirectly by the installation, operation, failure to operate, maintenance, removal, presence, condition, location or use of said equipment so provided.

The Telephone Company may require each customer or authorized user to sign an agreement for the furnishing of such equipment as a condition precedent to the furnishing of such equipment.

The Telephone Company is not liable for any defacement of or damage to the premises of a customer or authorized user resulting from the furnishing of channel facilities or the attachment of the instruments, apparatus and associated wiring furnished by the Telephone Company on such premises or by the installation or removal thereof, when such defacement or damage is not the result of negligence of the agents or employees of the Telephone Company.

/1/ Effective December 18, 2000, OPTINET Base Rate Service is no longer available to new customers. No changes will be permitted to any existing circuits. Customers with service currently provided under a Variable Term Payment Plan (VTPP) may keep their existing service until the expiration of their VTPP term or may convert to a Base Rate Service Term Payment Plan (TPP) at no charge as long as,

- A) The number of months subscribed to on the new TPP are equal to or greater than the months remaining on the existing VTPP term, and
- B) The number of circuits under the new TPP either remain the same as the VTPP or are increased.

When a VTPP contract expires, the customer must either convert to a Base Rate Service (either month-to-month or TPP), or disconnect the service. Existing OPTINET Base Rate customers currently being served on a month-to-month basis must either convert to Base Rate Service, month-to-month or TPP, or disconnect the service prior to September 15, 2001.

**OPTINET <sup>1/</sup>(cont'd)**

**Provisions (cont'd)**

Undertaking of the Telephone Company (cont'd)

Obligation of the Customer

A. The customer shall be responsible for:

1. damages to facilities of the Telephone Company caused by the negligence or willful act of the customer or authorized user;
2. reimbursing the Telephone Company for any loss through theft of the equipment or apparatus on the customer's, or authorized user's premises;
3. the provision of the power required to operate Telephone Company facilities installed on the premises of the customer or authorized user;
4. the provision, installation and maintenance of sealed conduit with explosive-proof fittings between equipment furnished by the Telephone Company in explosive atmospheres and points outside the hazardous area where connection may be made with regular facilities of the Telephone Company, and may be required to install and maintain Telephone Company equipment within the hazardous area if, in the opinion of the Telephone Company, injury or damage to Telephone Company employees or property might result from installation or maintenance by the Telephone Company;

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- A) The number of months subscribed to on the new TPP are equal to or greater than the months remaining on the existing VTPP term, and
- B) The number of circuits under the new TPP either remain the same as the VTPP or are increased.

When a VTPP contract expires, the customer must either convert to a Base Rate Service (either month-to-month or TPP), or disconnect the service. Existing OPTINET Base Rate customers currently being served on a month-to-month basis must either convert to Base Rate Service, month-to-month or TPP, or disconnect the service prior to September 15, 2001.

**OPTINET <sup>1/</sup>(cont'd)****Provisions (cont'd)**

Undertaking of the Telephone Company (cont'd)

Obligation of the Customer (cont'd)

5. obtaining permission for Telephone Company agents or employees to enter the premises of the customer or authorized user at any reasonable hour for the purpose of installing, inspecting, repairing or, upon termination of the service, removing the facilities of the Telephone Company, and for
6. making Telephone Company facilities available periodically for maintenance purposes at a time agreeable to both the Telephone Company and the customer. No allowance will be made for the period during which the service is interrupted for such purposes.

B. The service or any rights associated therewith may not be assigned or in any manner transferred.

/1/ Effective December 18, 2000, OPTINET Base Rate Service is no longer available to new customers. No changes will be permitted to any existing circuits. Customers with service currently provided under a Variable Term Payment Plan (VTPP) may keep their existing service until the expiration of their VTPP term or may convert to a Base Rate Service Term Payment Plan (TPP) at no charge as long as,

- A) The number of months subscribed to on the new TPP are equal to or greater than the months remaining on the existing VTPP term, and
- B) The number of circuits under the new TPP either remain the same as the VTPP or are increased.

When a VTPP contract expires, the customer must either convert to a Base Rate Service (either month-to-month or TPP), or disconnect the service. Existing OPTINET Base Rate customers currently being served on a month-to-month basis must either convert to Base Rate Service, month-to-month or TPP, or disconnect the service prior to September 15, 2001.

**OPTINET <sup>1/</sup>(cont'd)****Provisions (cont'd)**

Undertaking of the Telephone Company (cont'd)

Obligation of the Customer (cont'd)

Use

- A. OPTINET Services may be used for the transmission of communications to or from any station on the service.
- B. Shared Use
  1. An authorized user must have a station on the service and the station must be located on the premises of the authorized user and connected to the service by means of a separate OPTINET Local Distribution Channel, except that these requirements do not apply to an authorized user of a service with respect to his use of digital bit streams created by customer-provided derivation equipment, provided the authorized user has a station on the line connected to such equipment in accordance with the provisions in the Connections Section of Part 2.

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- A) The number of months subscribed to on the new TPP are equal to or greater than the months remaining on the existing VTPP term, and
- B) The number of circuits under the new TPP either remain the same as the VTPP or are increased.

When a VTPP contract expires, the customer must either convert to a Base Rate Service (either month-to-month or TPP), or disconnect the service. Existing OPTINET Base Rate customers currently being served on a month-to-month basis must either convert to Base Rate Service, month-to-month or TPP, or disconnect the service prior to September 15, 2001.

**OPTINET <sup>1/</sup>(cont'd)****Provisions (cont'd)**

Undertaking of the Telephone Company (cont'd)

Obligation of the Customer (cont'd)

Use (cont'd)

B. Shared Use (cont'd)

2. The Telephone Company shall not be responsible for the manner in which the use of service will be allocated. Orders which involve the start, rearrangement, release, or discontinuance of service will be accepted by the Telephone Company only from the customer.
3. The charges for OPTINET Services shall be determined as provided in this Guidebook and all charges for the service will be billed to the customer. (T)

C. Unlawful Use

The service furnished under this Guidebook shall not be used for any purpose or in any manner directly or indirectly in violation of the law or in aid of any unlawful act or undertaking. (T)

/1/ Effective December 18, 2000, OPTINET Base Rate Service is no longer available to new customers. No changes will be permitted to any existing circuits. Customers with service currently provided under a Variable Term Payment Plan (VTPP) may keep their existing service until the expiration of their VTPP term or may convert to a Base Rate Service Term Payment Plan (TPP) at no charge as long as,

- A) The number of months subscribed to on the new TPP are equal to or greater than the months remaining on the existing VTPP term, and
- B) The number of circuits under the new TPP either remain the same as the VTPP or are increased.

When a VTPP contract expires, the customer must either convert to a Base Rate Service (either month-to-month or TPP), or disconnect the service. Existing OPTINET Base Rate customers currently being served on a month-to-month basis must either convert to Base Rate Service, month-to-month or TPP, or disconnect the service prior to September 15, 2001.

**OPTINET <sup>1/</sup>(cont'd)****Provisions (cont'd)**

## Minimum Service Period

The minimum period of service is one month, for OPTINET Base Rate Service except where the cost of special construction is such as to necessitate a longer minimum period.

## Allowance for Interruptions

## OPTINET Base Rate Service

No credit is allowed for interruptions to service of less than 30 minutes. Interruptions of 30 minutes or over are credited to the customer at the proportionate monthly charge in half hour multiples for each half hour or major fraction thereof of interruption.

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

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- A) The number of months subscribed to on the new TPP are equal to or greater than the months remaining on the existing VTPP term, and
- B) The number of circuits under the new TPP either remain the same as the VTPP or are increased.

When a VTPP contract expires, the customer must either convert to a Base Rate Service (either month-to-month or TPP), or disconnect the service. Existing OPTINET Base Rate customers currently being served on a month-to-month basis must either convert to Base Rate Service, month-to-month or TPP, or disconnect the service prior to September 15, 2001.

**OPTINET <sup>1/</sup>(cont'd)****Service Components**Bridging Arrangement

Bridging Arrangements are required to provide OPTINET Base Rate Service between three or more stations. A Bridging arrangement is required per station.

Central Office Terminal

One Central Office Terminal is required to connect the Central Office end of an OPTINET Base Rate circuit to other C.O. services, such as Centrex located in the same Central Office.

Channel Mileage

The Channel Mileage price element provides for the transmission facilities between the serving wire centers associated with two customer designated premises or between a serving wire center associated with a customer designated premises and a Telephone Company Bridge or between two Telephone Company Bridges.

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- A) The number of months subscribed to on the new TPP are equal to or greater than the months remaining on the existing VTPP term, and
- B) The number of circuits under the new TPP either remain the same as the VTPP or are increased.

When a VTPP contract expires, the customer must either convert to a Base Rate Service (either month-to-month or TPP), or disconnect the service. Existing OPTINET Base Rate customers currently being served on a month-to-month basis must either convert to Base Rate Service, month-to-month or TPP, or disconnect the service prior to September 15, 2001.

**OPTINET <sup>1/</sup>(cont'd)****Service Components (cont'd)**Channel Mileage Termination

The Channel Mileage Termination price element provides for termination of interoffice facilities to the central office. It is only applied if there is interoffice channel mileage and not for circuits within the same central office. A Channel Mileage Termination is required to terminate each end of Channel Mileage OPTINET Base Rate Service.

Channel Service Unit (CSU)

A Channel Service Unit (CSU) is required at a customer's or authorized user's premises to perform such functions as amplification, signal shaping, remote loop back and provides the proper termination of the facility. The customer is responsible for providing a Channel Service Unit equivalent to perform the functions of the CSU.

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- A) The number of months subscribed to on the new TPP are equal to or greater than the months remaining on the existing VTPP term, and
- B) The number of circuits under the new TPP either remain the same as the VTPP or are increased.

When a VTPP contract expires, the customer must either convert to a Base Rate Service (either month-to-month or TPP), or disconnect the service. Existing OPTINET Base Rate customers currently being served on a month-to-month basis must either convert to Base Rate Service, month-to-month or TPP, or disconnect the service prior to September 15, 2001.

**OPTINET <sup>1/</sup>(cont'd)****Service Components (cont'd)**Data Service Unit

A Data Service Unit equivalent, which must be provided by the customer, is required at a customer's or authorized user's premises to perform such functions as:

- proper coding and decoding of signals
- timing recovery
- synchronous sampling
- formatting
- generation and recognition of control signals

Secondary Channel

The Secondary Channel is an arrangement that provides the customer the flexibility of utilizing a secondary channel in conjunction with a primary OPTINET Base Rate Service Channel. The Secondary Channel and primary channel operate independently of each other, over the same facilities and must be coterminated in common customer provided equipment. Secondary Channels will be provided where facilities allow.

The addition of the secondary channel option to an existing OPTINET Base Rate Service will be treated as a disconnect of the existing service and an installation of a new service including the Secondary Channel.

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**OPTINET <sup>1/</sup>(cont'd)****Definitions**Bit

The smallest unit of information in the binary system of notation.

Channel

A path (paths) for digital transmission between two or more stations. A channel may be furnished in such manner as the Telephone Company may elect, whether by wire, radio or a combination thereof and whether or not by means of a single physical facility or route.

Customer

The person, firm or corporation which orders service and is responsible for the payment of charges and compliance with Telephone Company policies. A customer for OPTINET Service must have a communication requirement of his own for its use, except where the customer for OPTINET Service orders the addition of service points to meet the communications requirements of a user of such service and such additional service points are required to extend the transmission of communications to or from the OPTINET Service for which the customer has a communication requirement of his own.

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**OPTINET <sup>1/</sup>(cont'd)****Definitions (cont'd)**Customer-Provided Communications Systems

Facilities provided by a customer, or user which are capable, when not connected to OPTINET Service, of communications between customer-provided terminal equipment.

Customer-Provided Terminal Equipment

Communications devices, apparatus and their associated wiring, provided by a customer or user which do not constitute a communications system.

Data Switching

The switching of data (non-voice) messages by the interchange, controlling and routing of data messages between two or more stations, via communications facilities, wherein the information content of the message remains unaltered.

Digital Central Office

The Telephone Company central office equipped for digital capability

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**OPTINET <sup>1/</sup>(cont'd)****Definitions (cont'd)**Duplex

An operation which permits customers or users to communicate in both directions simultaneously.

Interoffice Digital Channel

A path for digital transmission furnished between Central Offices. An Interoffice Digital Channel can only be provided where the originating and terminating central offices, as well as all intermediate central offices are Central Offices.

Isochronous

Timing derived from the signal carrying data. (No timing or clock lead is provided of the Network Terminating Equipment.)

Move

A change in the physical location on the same premises, when made at the request of the customer without discontinuance of service, of facilities and items of equipment provided by the Telephone Company.

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**OPTINET <sup>1/</sup>(cont'd)****Definitions (cont'd)**Premises

Space occupied by a customer (or user) in a building or group of buildings on continuous property of the customer or user. Also a Centrex CO equipped central office serving the customer or user.

Service Terminating Arrangement

Equipment furnished by the Telephone Company which is utilized for the termination of OPTINET Services. Such "Service Terminating Arrangement" provides a clearly delineated interface which facilitates the isolation and testing of the OPTINET Services where the service is connected with customer-provided communications systems, or terminal equipment.

Station

A point on a customer's or user's premises at which an OPTINET Local Distribution Channel is terminated.

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**OPTINET <sup>1/</sup>(cont'd)****Definitions (cont'd)**Telephone Company

Indiana Bell Telephone Company, Inc.

User

A person, firm or corporation who is designated by the customer as a user of an OPTINET Service furnished to the customer and who may share such service with the customer in accordance with the provisions set forth in Use preceding. A user must be specifically named in the customer's application for service.

Payment Schedule**A. Payment Plan**

The Local Distribution Channel and the Telephone Company-provided multiplexing assembly used in OPTINET Services will be furnished under the Variable Term Payment Plan (VTPP) as specified in Part 2. The VTPP prices are payable over a period selected by the customer from those available. All terms and conditions pertaining to VTPP are included in Part 2.

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**OPTINET <sup>1/</sup>(cont'd)****Payment Schedule (cont'd)**

Monthly prices designated V.1 are for those customers with VTPPs established prior to January 2, 1986. Prices designated V.2 are for those customers subscribing to Direct High Capacity Service, now OPTINET Services, on or subsequent to November, 1985. Expired VTPPs designated V.1 will be reestablished under the new VTPP. Customers with VTPPs designated V.1 may have their payment plan reestablished under the new VTPP at any time. Customers requesting additional Local Distribution Channels with VTPPs designated V.1 will have the option of making the additions under the current VTPP or reestablishing the service under the new VTPP.

**B. Options and Conditions under VTPP**

1. Additions, conversions, upgrades, and downgrades, as defined in the VTPP offering will not apply for the Telephone Company-provided multiplexing assembly or the Local Distribution Channel.

**C. Termination Prior to Term Expiration**

The termination liability applicable to the Telephone Company-provided multiplexing assembly and the Digital Local Distribution Channel used in OPTINET Services is dependent upon the payment period selected by the customer.

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**OPTINET <sup>1/</sup>(cont'd)****Payment Schedule (Cont'd)**

## C. Termination Prior to Term Expiration (cont'd)

Termination liabilities will not apply for OPTINET Base Rate Service(s) eliminated as a result of upgrades from OPTINET Base Rate Service to DS1 Service as long as the customer's network maintains the original amount of equivalent channels.

Termination prices by optional payment period are as follows:

Variable Term Option	Termination Price
1 month	None
12 months	9 months of payment or 75% of the remaining amount due, whichever is less.
36 months	24 months of payment or 75% of the remaining amount due, whichever is less.
60 months	36 months of payment or 75% of the remaining amount due, whichever is less.

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**OPTINET <sup>1/</sup>(cont'd)****Payment Schedule (cont'd)**

## C. Termination Prior to Term Expiration (cont'd)

Variable Term Option	Termination Price
84 months	48 months of payment or 75% of the remaining amount due, whichever is less.
120 months	60 months of payment or 75% of the remaining amount due, whichever is less

## OPTINET Base Rate Service

## Nonrecurring Prices

One Nonrecurring price applies to the installation of each OPTINET Local Distribution Channel and Bridging Arrangement.

A Nonrecurring Price - Initial applies for the first Local Distribution Channel to each premises, or for the first Bridging Arrangement per station.

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**OPTINET <sup>1/</sup>(cont'd)****OPTINET Base Rate Service (cont'd)**

## Nonrecurring Prices (cont'd)

	Initial	Additional
Local Distribution Channel # Each,	\$335.00	\$240.00
Bridging Arrangement, per station	33.00	33.00
Central Office Terminal Each,	55.00	17.00

# For those customers who choose an Optional Payment Period (OPP) of 36 months or greater in length, Nonrecurring Prices for installation of each Local Distribution Channel, Initial and Additional, will not apply. However, customers requesting termination of service prior to the completion of a minimum of a 36 months or greater OPP term will become liable for payment of Nonrecurring Prices for installation.

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**OPTINET<sup>1/</sup>(cont'd)****OPTINET Base Rate Service (cont'd)**

Monthly Recurring Prices

Local Distribution Channel

For Transmission speed of:	Monthly Price	Optional Payment Period		
		12 Months	36 Months	60 Months
2.4 Kbps	/DDB/	\$ 77.00	\$ 75.00	\$ 72.00
4.8 Kbps	/DDE/	80.00	75.00	72.00
9.6 Kbps	/DDF/	85.00	80.00	75.00
56 Kbps	/DDG/	180.00	145.00	110.00
64 Kbps	/DDJ/	185.00	150.00	115.00

Channel Mileage Termination (each) 2UE \$ 25.00 monthly

Channel Mileage (per airline mile)

For Transmission speed of:	Monthly Price Per Airline Mile
2.4 Kbps	/1L7A+/ \$ 1.75
4.8 Kbps	/1L7B+1/ 2.00
9.6 Kbps	/1L7C+1/ 2.50
56 Kbps	/1L7D+1/ 5.00
64 Kbps	/1L7Q+1/ 5.00

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**OPTINET <sup>1/</sup>(cont'd)****OPTINET Base Rate Service (cont'd)**

Monthly Recurring Prices (cont'd)

Bridging Arrangement

		Monthly Price
To provide OPTINET Service		
Between three or more stations		\$ 28.50
Per station /DDZ+C/		2.00
Central Office Terminal /TTM/		
Secondary Channel		
For Transmission speed of:		Monthly Price
2.4 Kbps	SSE24	\$ 17.50
4.8 Kbps	SSE48	17.50
9.6 Kbps	SSE96	17.50
56 Kbps	SSE56	17.50

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**OTHER FEATURES AND ARRANGEMENTS<sup>/1</sup>****Telemetry/Alarm Bridging Service**Furnished For Use With Type 3040 and 3041 Local Channels

Telemetry/Alarm Bridging Service (TABS) is a multi-station, voice frequency, private line service designed to provide connections between a master station and a number of remote stations simultaneously. Direct transmission between remote stations is not intended. This service is intended for application in multi-point, voice frequency, data or tone signaling arrangements, with transmission at rates up to 400 baud utilizing Type 3040 and 3041 Local Distribution Channels.

TABS is provided in the following arrangements:

Split Band, Active Bridging

A bridging arrangement providing for a 4-wire (master station or mid-link channel) frequency split common port and multiple 2-wire (remote station) ports intended for application in multi-point voice frequency, data or tone signaling arrangements. Two-way (polling) communication between the master station and each remote station is intended.

Passive Bridging

A bridging arrangement providing for a 2-wire (master station or interconnection station channel) common port and multiple 2-wire (remote station) ports intended for data or tone signaling arrangements. Two-way (polling) communication between the master station and each remote station is intended.

Summation, Active Bridging

A bridging arrangement providing for a 2-wire (master station or mid-link channel) common port and multiple 2-wire (remote station) ports intended for tone signaling arrangements. One-way communication from each remote station to the master station is intended.

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/1/ Effective July 19, 2002, TABS will no longer be available to new customers. Existing customers may retain service at existing locations until December 1, 2002, when the service will be completely discontinued.

**OTHER FEATURES AND ARRANGEMENTS (cont'd)<sup>/1</sup>**

**Telemetry/Alarm Bridging Service (cont'd)**

Furnished For Use With Type 3040 and 3041 Local Channels (cont'd)

Definitions applicable to TABS:

Master Station

The one station of a multi-point system located on a customer's premises which communicates with, or receives communications from, each remote station.

Remote Station

One of the many stations of a multi-point system located on a customer's premises which is connected to the master station via the applicable TABS arrangement.

Interconnection Station

One of the remote stations of a Passive Bridging multi-point system at which is located customer owned and maintained regeneration equipment used in conjunction with interconnection of two bridges via an interconnection station channel (Type 3040 Local Distribution Channel).

Master Station Channel

The dedicated communications service channel (Type 3040 or 3041 Local Distribution Channel) of a TABS system connecting the master station to the primary bridge.

Remote Station Channel

The dedicated communications service channel (Type 3040) of a TAB System connecting each remote station to its bridge.

Interconnection Station Channel

The dedicated private line channel (Type 3040) of a TABS system connecting each interconnecting station to a subsequent bridge. The channel is only applicable with Passive Bridging.

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**OTHER FEATURES AND ARRANGEMENTS (cont'd)<sup>/1</sup>****Telemetry/Alarm Bridging Service (cont'd)**

Furnished For Use With Type 3040 and 3041 Local Channels (cont'd)

Definitions applicable to TABS: (cont'd)

**Mid-Link Channel**

The dedicated inter-office and/or inter-exchange dedicated communications service channel of a TABS system connecting two bridges located in separate central offices with each other. This channel is only applicable for Split Band, Active Bridging and Summation Active Bridging.

**Primary Bridge**

The bridge which is connected directly to the master station via the master station channel.

**Secondary Bridge**

Any bridge in a TABS system which is connected to a primary bridge via a mid-link channel or interconnection station channel.

**Provisions**

No more than 128 remote stations may be connected to a master station over an individual Split Band Active Bridging or Summation Active Bridging system.

There is no limit on the number of remote stations that may be connected to a master station when using Passive Bridging. Customers may choose to tandem passive bridges using customer provided regenerators and interconnection station channels. However, the Telephone Company considers each passive bridge and its associated channels as an independent multi-point system. The Telephone Company assures transmission only within each passive bridge system.

In Split Band Active and Summation Active Bridging arrangements, secondary bridges must be directly connected to the primary bridge via mid-link channels. Secondary bridges cannot be connected through other secondary bridges to allow additional layers of tandeming the 2-wire remote station capacity of the primary bridge by one.

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**OTHER FEATURES AND ARRANGEMENTS (cont'd)<sup>/1</sup>**

**Telemetry/Alarm Bridging Service (cont'd)**

Furnished For Use With Type 3040 and 3041 Local Channels (cont'd)

Definitions applicable to TABS: (cont'd)

Provisions (cont'd)

Secondary bridges, utilized in Split Band, Active Bridging arrangements, reduce the 2-wire remote station capacity of the primary bridge. The initial secondary bridge reduces the primary bridge capacity by twelve 2-wire remote station connections. Each subsequent secondary bridge reduces the primary bridge capacity by four additional 2-wire remote station connections.

Each secondary bridge, utilized in Summation Active Bridging arrangements reduces

Standard Multi-Point Service bridging charges as provided in other sections of this Guidebook are not applicable to TABS. (T)

Access over 4-wire Master Station Channels for Split Band, Active Bridging is provided through a Type 3041 Local Distribution Channel. Access over 2-wire Master Station Channels for Passive and Summation, Active Bridging is provided through a Type 3040 Local Distribution Channel. Primary bridges located outside of the serving central office where the master station is located will require Inter-office and/or Inter-exchange Channels as described in Channels of this Section.

Access over Interconnection and Remote Station Channels is provided through a Type 3040 Local Distribution Channel, and through the appropriate channel connection. Interconnection of remote stations located outside of the serving central office where the bridge to which they are connected is located will require Inter-office and/or Inter-exchange Channels as described in Channels of this Section.

Access over each 4-wire Mid-link Channel for Split Band, Active Bridging and each 2-wire Mid-link Channel for Summation, Active Bridging is through Inter-office and/or Inter-exchange Channels as described in Channels of this Section. Additionally, Mid-link Channel connections are required.

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**OTHER FEATURES AND ARRANGEMENTS (cont'd)<sup>/1/</sup>****Telemetry/Alarm Bridging Service (cont'd)**

Furnished For Use With Type 3040 and 3041 Local Channels (cont'd)

Description /Billing Code/	Nonrecurring Price	Monthly Price
Split Band, Active Bridging		
Common Equipment, per Central Office		
First bridging shelf, capacity of 48 2-wire connections /XW1/	\$500.00	\$108.00
Additional bridging shelf capacity of 56 2-wire connections /XW2/	400.00	92.50
Channel Connections, per channel connected		
Remote station channel connection, each /XW3/	14.00	2.45
Mid-Link channel connection,		
- First channel, each /XW4/	50.00	17.40
- Subsequent channels, each /XW5	30.00	17.40
Passive Bridging		
Common Equipment, per Central Office		
Each bridge, capacity of 10 2-wire connections /XW6/	50.00	12.70
Summation, Active Bridging		
Common Equipment, per Central Office		
First or additional bridging shelves, capacity of 10 2-wire connections, each /XW7/	100.00	26.50

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**MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE<sup>/1</sup>**

/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.<sup>/2</sup>

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.<sup>/2</sup>

GigE/FC/FICON™ Sub-Rate System - provides a multiplexing system which allows customers to put 2 Gigabit Ethernet (GigE) Channels or up to 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™ Channel (2.125 Gbps) can not be placed on this sub-rate system.

SONET 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 card.<sup>/2</sup>

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.<sup>/3</sup>

/5/

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/2/ Available where facilities and equipment permit.

/5/

/3/ Available where facilities and equipment permit beginning November 30, 2005.

/5/

/4/ Material formerly appeared in Part 15, Section 3, Sheet 153.

/5/ Material formerly appeared in Part 15, Section 3, Sheet 154.

**MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE<sup>/1/</sup>(cont'd)**

/3/

**A. Description (cont'd)**

MON Ring Service offers the following port interfaces:

*IBM Protocols<sup>/2/</sup>*

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

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

FICON<sup>TM</sup> (1.0625 Gbps and 2.125 Gbps) – A higher-speed evolution of ESCON<sup>TM</sup>, enabling 1 Gbps connectivity among mainframes, storage devices and peripherals. FICON<sup>TM</sup> 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<sup>TM</sup> Sub-Rate System.

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

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

/3/

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/2/ ESCON<sup>TM</sup>, ETR/CLO<sup>TM</sup>, FICON<sup>TM</sup>, ISC-1<sup>TM</sup>, ISC-3<sup>TM</sup> and GDPS<sup>TM</sup> are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

/3/

/3/ Material formerly appeared in Part 15, Section 3, Sheet 155.

**MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE<sup>/1/</sup> (cont'd)**

/2/

**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<sup>TM</sup> 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.

/2/

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/2/ Material formerly appeared in Part 15, Section 15, Sheet 156.

**MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE<sup>/1/</sup> (cont'd)**

/3/

**A. Description (cont'd)**Other Protocol (cont'd)

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.<sup>/2/</sup>

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.<sup>/2/</sup>

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.<sup>/2/</sup>

SONET OC-192/OC-192c - provides a fiber-based 9953.28 Mbps synchronous optical full duplex data transmission capability.<sup>/2/</sup>

/3/

**B. Definitions**

/4/

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.

/4/

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/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 in Part 15, Section 3, Sheet 157.

/4/ Material formerly appeared in Part 15, Section 3, Sheet 158.

**MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE<sup>/1/</sup> (cont'd)**

/2/

**B. Definitions (cont'd)***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. Optical 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/

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/2/ Material formerly appeared in Part 15, Section 3, Sheet 158.

**MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE<sup>/1/</sup> (cont'd)**

/2/

**C. Terms and Conditions**

In addition to regulations set forth elsewhere in this Guidebook and other Company Tariffs, 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/

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/2/ Material formerly appeared in Part 15, Section, Sheet 159.

**MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE<sup>/1/</sup> (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 permit, 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 customer's 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<sup>TM</sup> (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<sup>TM</sup> (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<sup>TM</sup> (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/

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/2/ Material formerly appeared in Part 15, Section 3, Sheet 160.

**MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE<sup>/1/</sup> (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/

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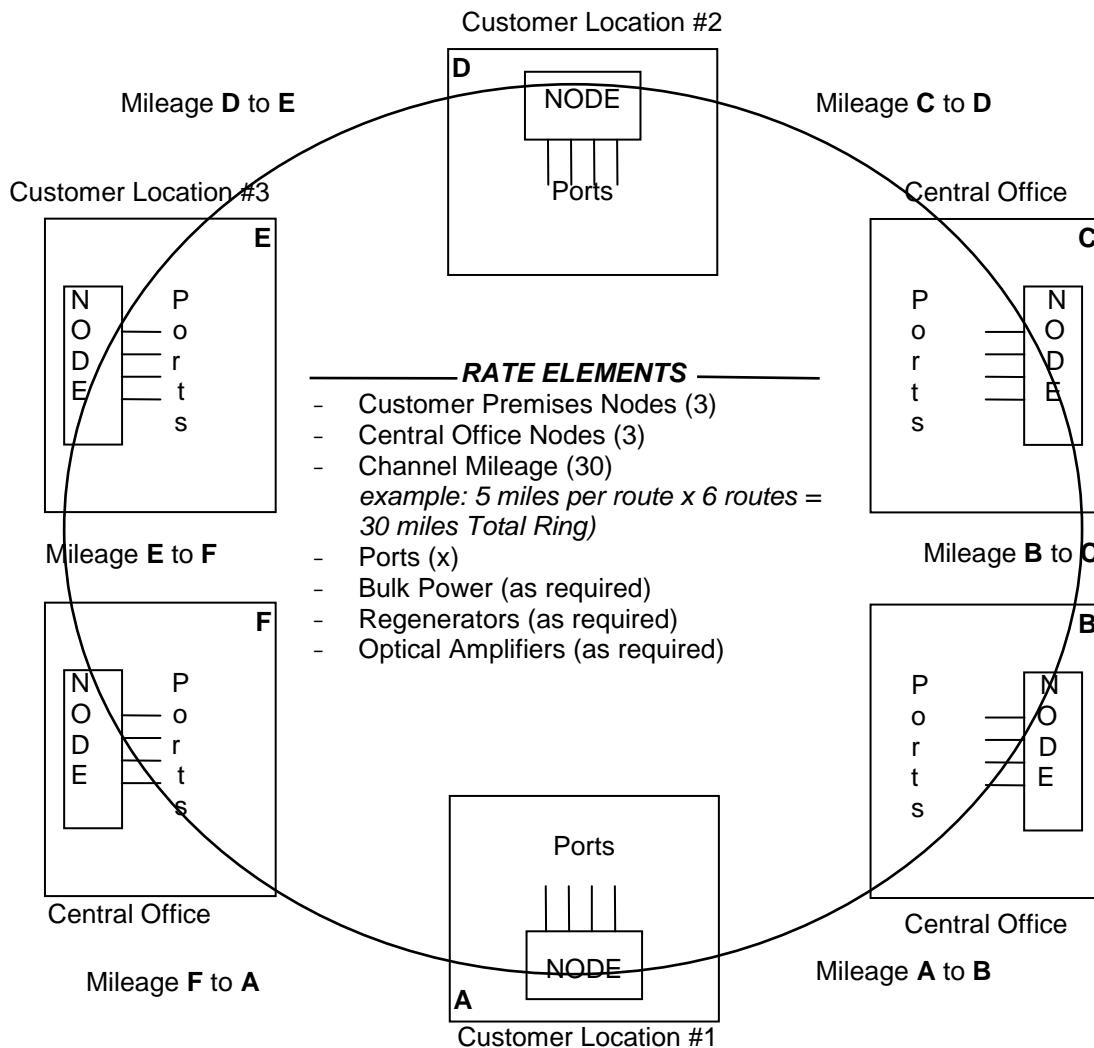
/2/ Material formerly appeared in Part 15, Section 3, Sheet 161.

MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE<sup>/1/</sup> (cont'd)

/2/

## D. Features (cont'd)

## 1. Standard Features (cont'd)



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/2/ Material formerly appeared in Part 15, Section 3, Sheet 162.

**MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE<sup>/1/</sup> (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/

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/2/ Material formerly appeared in Part 15, Section 3, Sheet 163.

**MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE<sup>/1/</sup> (cont'd)**

/2/

**E. Technical References**

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

<u>Subject</u>	<u>Technical Reference</u>
Ameritech LAN Interconnect Service - Token Ring Interface Specifications	AM-TR-NIA-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 <sup>TM</sup> )	AM-TR-NIS-000096 AM-TR-NIS-000107
IBM Documentation (ESCON <sup>TM</sup> )	IBM SA22-7202-XX IBM SA23-0394-XX
Fibre Channel (also includes FICON <sup>TM</sup> and ISC <sup>TM</sup> )	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  
8 Corporate Place, PYA 3A-184  
Piscataway, New Jersey 08854-4156

/2/

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/2/ Material formerly appeared in Part 15, Section 3, Sheet 164.

**MULTI-SERVICE OPTICAL NETWORK RING SERVICE<sup>/1/</sup> (cont'd)**

/2/

**F. Prices**

## Service Elements

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>
Administrative Charge - per service order /ORCMX/	\$ 125.00
Design and Central Office Connection Charge - per 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/

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/2/ Material formerly appeared in Part 15, Section 3, Sheet 165.

**MULTI-SERVICE OPTICAL NETWORK RING SERVICE<sup>/1/</sup> (cont'd)**

/3/

**F. Prices (cont'd)**

## 1. Service Elements (cont'd)

<u>Description /Billing Code/</u>	Monthly Payment Term Payment Plans			<u>Monthly Extension</u>
	<u>36 Months</u>	<u>60 Months</u>		
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/ <sup>/2/</sup>	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/

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/2 Available where facilities and equipment permit.

/3/

/3/ Material formerly appeared in Part 15, Section 3, Sheet 166.

**MULTI-SERVICE OPTICAL NETWORK RING SERVICE<sup>/1/</sup> (cont'd)**

/2/

**F. Prices (cont'd)**

## 1. Service Elements (cont'd)

<u>Description /Billing Code/</u>	Monthly Payment Term Payment Plans			<u>Monthly Extension</u>	
	<u>36 Months</u>	<u>60 Months</u>			
<b>MON Ring Channels</b>					
Ports					
- per port/per circuit terminating location					
ETR/CLO <sup>TM</sup>					
- unprotected channel /POYKW/	\$ 975.00	\$ 750.00	\$1,400.00		
FICON <sup>TM</sup> (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 <sup>TM</sup> (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 <sup>TM</sup>					
- 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 <sup>TM</sup>					
- unprotected channel /POY9W/	3,750.00	2,500.00	5,000.00		
- protected channel /POY9P/	7,500.00	5,000.00	10,000.00		
Fibre Channel (1.0625 Gbps)					
- unprotected channel /POYNW/	1,200.00	900.00	1,700.00		
- 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		

/2/

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/2/ Material formerly appeared in Part 15, Section 3, Sheet 167.

**MULTI-SERVICE OPTICAL NETWORK RING SERVICE<sup>/1/</sup> (cont'd)**

/3/

**F. Prices (cont'd)**

## 1. Service Elements (cont'd)

<u>Description /Billing Code/</u>	<u>Monthly Payment</u>			<u>Monthly Extension</u>	
	<u>Term Payment Plans</u>	<u>36 Months</u>	<u>60 Months</u>		
<b>MON Ring Channels (cont'd)</b>					
<b>Ports (cont'd)</b>					
- 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 <sup>/2/</sup>					
- 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. Effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.

/2/ Available only where facilities and equipment permit.

/3/

/3/ Material formerly appeared in Part 15, Section , Sheet 168.

**MULTI-SERVICE OPTICAL NETWORK RING SERVICE<sup>/1/</sup> (cont'd)**

/3/

**F. Prices (cont'd)**

## 1. Service Elements (cont'd)

<u>Description /Billing Code/</u>	Monthly Payment Term Payment Plans			<u>Monthly Extension</u>	
	<u>36 Months</u>	<u>60 Months</u>			
MON Ring Channels (cont'd)					
Ports (cont'd)					
- per port/per circuit terminating location (cont'd)					
GigE/FC/FICON <sup>TM</sup> 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 <sup>/2/</sup>					
- unprotected channel /POY4W/	500.00	400.00	650.00		
- protected channel /POY4P/	1,000.00	800.00	1,300.00		
Fibre Channel (1.0625 Gbps) Riding Circuit <sup>/2/</sup>					
- unprotected channel /POY6W/	500.00	400.00	650.00		
- protected channel /POY6P/	1,000.00	800.00	1,300.00		
FICON <sup>TM</sup> (1.0625 Gbps) Riding Circuit <sup>/2/</sup>					
- unprotected channel /POY7W/	400.00	320.00	480.00		
- protected channel /POY7P/	800.00	640.00	960.00		

/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. 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<sup>TM</sup> Sub-Rate System.

/3/

/3/ Material formerly appeared in Part 15, Section 3, Sheet 169.

**MULTI-SERVICE OPTICAL NETWORK RING SERVICE<sup>/1/</sup> (cont'd)**

/4/

**F. Prices (cont'd)**

## 1. Service Elements (cont'd)

<u>Description /Billing Code/</u>	Monthly Payment Term Payment Plans			<u>Monthly Extension</u>	
	<u>36 Months</u>	<u>60 Months</u>			
<b>MON Ring Channels (cont'd)</b>					
<b>Ports (cont'd)</b>					
- per port/per circuit terminating location (cont'd)					
<b>ESCON<sup>TM/2/</sup></b>					
- unprotected channel /PWY1W	\$1,300.00	\$1,000.00	\$1,900.00		
- protected channel /PWY1P	2,600.00	2,000.00	3,700.00		
<b>Fast Ethernet<sup>/2/</sup></b>					
- unprotected channel /PWY2W/	1,300.00	1,000.00	1,900.00		
- protected channel /PWY2P/	2,600.00	2,000.00	3,700.00		
<b>D1 Video Circuit<sup>/2/</sup></b>					
- unprotected channel /PWY3W/	1,300.00	1,000.00	1,900.00		
- protected channel /PWY3P/	2,600.00	2,000.00	3,700.00		
<b>DVB-ASI Video<sup>/2/</sup></b>					
- unprotected channel /POY8W/	2,100.00	1,650.00	3,075.00		
- protected channel /POY8P/	4,200.00	3,300.00	5,775.00		
<b>SONET OC-3/OC-3c<sup>/2/</sup></b>					
- unprotected channel /PWY4W/	1,300.00	1,000.00	1,900.00		
- protected channel /PWY4P/	2,600.00	2,000.00	3,700.00		
<b>OC-48 Sub-Rate System<sup>/2/</sup></b>					
- unprotected channel /POYRW/	3,500.00	2,750.00	4,250.00		
- protected channel /POYRP/	7,000.00	5,500.00	8,500.00		
<b>SONET OC-48/OC-48c Riding Circuit<sup>/2/3/</sup></b>					
- unprotected channel /POYZW/	1,900.00	1,200.00	2,800.00		
- protected channel /POYZP/	3,800.00	2,400.00	5,600.00		

/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. 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

/4/

/4/ Material formerly appeared in Part 15, Section 3, Sheet 170.

**MULTI-SERVICE OPTICAL NETWORK RING SERVICE<sup>/1/</sup> (cont'd)**

/6/

**F. Prices (cont'd)**

## 1. Service Elements (cont'd)

<u>Description /Billing Code/</u>	Monthly Payment Term Payment Plans			<u>Monthly Extension</u>	
	<u>36 Months</u>	<u>60 Months</u>			
MON Ring Channels (cont'd)					
Ports (cont'd)					
- per port/per circuit terminating location (cont'd)					
Sub-Rate System <sup>/2/</sup>					
- 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 <sup>/2//3//4/</sup>					
- unprotected channel /POYHW/	100.00	100.00	150.00		
- protected channel /POYHP/	100.00	100.00	150.00		
Fast Ethernet Riding Circuit <sup>/2//3/</sup>					
- unprotected channel /POYCW/	325.00	250.00	400.00		
- protected channel /POYCP/	500.00	400.00	650.00		
D1 Video Riding Circuit <sup>/2//3/</sup>					
- unprotected channel /POYVW/	100.00	100.00	150.00		
- protected channel /POYVP/	100.00	100.00	150.00		
DVB-ASI Video Riding Circuit <sup>/2//3/</sup>					
- 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 <sup>/2//3//5/</sup>					
- 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. Effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.

/2 Available only where facilities and equipment permit.

/6/

/3/ Available only when ordered with Sub-Rate System.

/6/

/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 in Part 15, Section 3, Sheet 171.

**MULTI-SERVICE OPTICAL NETWORK RING SERVICE<sup>/1/</sup> (cont'd)**

/4/

**F. Prices (cont'd)**

## 1. Service Elements (cont'd)

<u>Description /Billing Code/</u>	Monthly Payment Term Payment Plans			<u>Monthly Extension</u>	
	<u>36 Months</u>	<u>60 Months</u>			
MON Ring Channels (cont'd)					
Ports (cont'd)					
- per port/per circuit terminating location (cont'd)					
ESCON™ Sub-Rate System <sup>/2/</sup>					
- 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 <sup>/2/</sup>					
- 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 <sup>/2/3/</sup>					
- 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. 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 in Part 15, Section 3, Sheet 172.

**MULTI-SERVICE OPTICAL NETWORK RING SERVICE<sup>/1/</sup> (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 the 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 5, 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. Effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.

/2/ Material formerly appeared in Part 15, Section 3, Sheet 173.

**MULTI-SERVICE OPTICAL NETWORK RING SERVICE<sup>/1/</sup> (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. Effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.

/2/ Material formerly appeared in Part 15, Section 3, Sheet 174.

1. **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 purposes.

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/

1. **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.

1. **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 Carrier's.

/1/

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

## 1. GIGAMAN® SERVICE (cont'd)

/1/

## D. Features

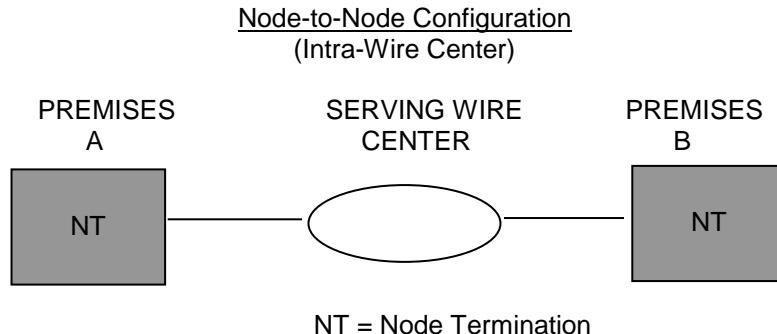
## 1. Standard Features

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.



Applicable service elements are:

- Node Termination (two applicable)

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

## 1. GIGAMAN® SERVICE (cont'd)

/1/

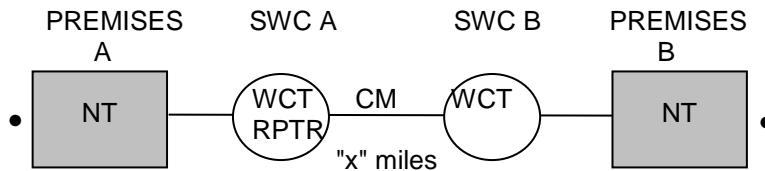
## D. Features (cont'd)

## 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.

**1. 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<sup>11</sup>
- 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/ Material formerly appeared in Part 15, Section 4, Sheet 6. /2/

## 1. GIGAMAN® SERVICE (cont'd)

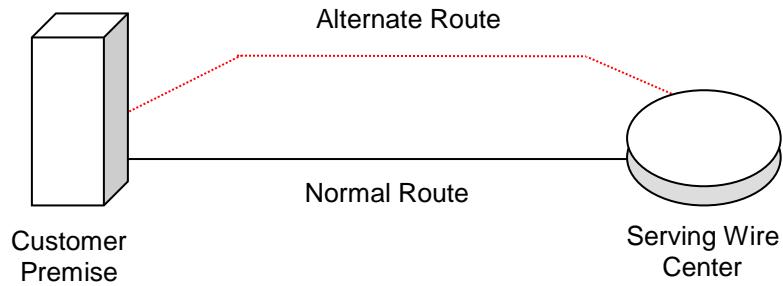
/1/

## 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.



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

## 1. GIGAMAN® SERVICE (cont'd)

/1/

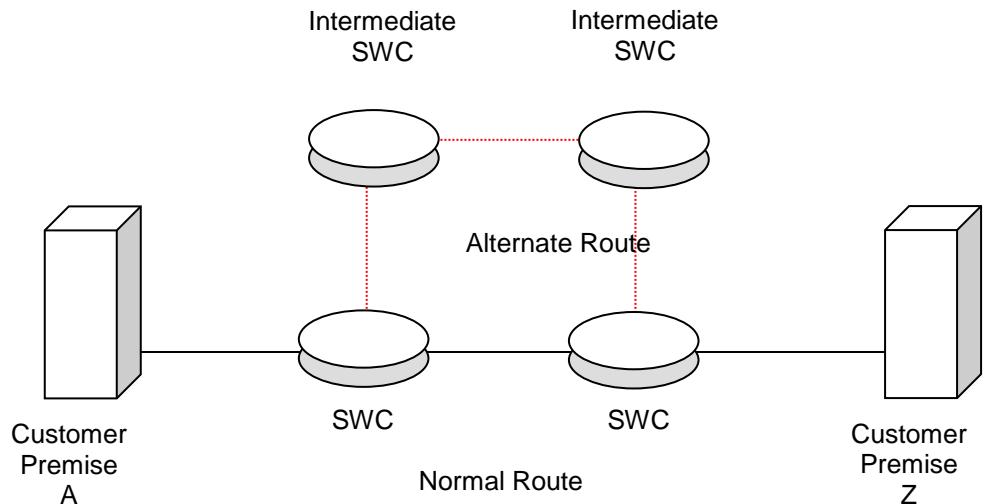
## D. Features (cont'd)

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

## 1. GIGAMAN® SERVICE (cont'd)

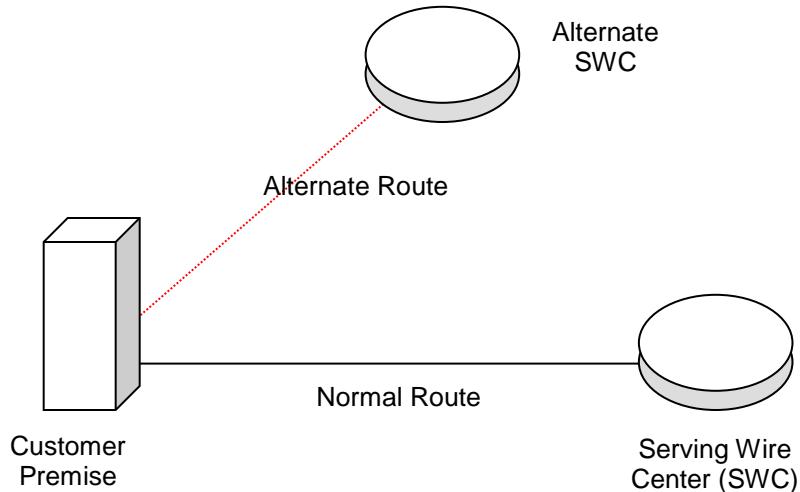
/1/

## 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 customer's 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/ Material formerly appeared in Part 15, Section 4, Sheet 9.

## 1. 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.

**1. 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.

1. **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.

/1/

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

**1. GIGAMAN® SERVICE (cont'd)**

/1/

**E. Technical References**

The customer interface to GigaMAN Service is as specified in:

<u>Subject</u>	<u>Technical Reference</u>
Ethernet Standards for the SBC Local Exchange Companies	SBC-TP-76412-000
Network Performance Parameters for Dedicated Digital Services – Definitions and Measurements	ANSI TI.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

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

## 1. GIGAMAN® SERVICE (cont'd)

/3/

## F. Prices

## 1. Service Elements

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>
<u>Nonrecurring Charges</u>	
Administrative Charge <sup>/1/</sup> - per service order /ORCMX/	\$140.00
Design and Central Office Connection Charge <sup>/1/</sup> - per circuit /NRBCL/	230.00
Customer Connection Charge <sup>/1/</sup> - 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 <sup>/2/</sup> /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.

## 1. GIGAMAN® SERVICE (cont'd)

/2/

## F. Prices (cont'd)

## 1. Service Elements (cont'd)

Description <u>/Billing Code/</u>	Monthly Payment <i>Term Payment Plans</i>					Monthly Extension
	<u>12 Months</u>	<u>24 Months</u>	<u>36 Months</u>	<u>60 Months</u>		
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/ - each /M1RGX/ <sup>1/</sup>	2,400.00 2,400.00	1,700.00 -	1,150.00 1,150.00	850.00 850.00	2,500.00 2,500.00	
Diversity Options - Local Channel /CPALX/ - Inter-Wire Center /CPATX/ - Alternate Wire Center /CPAAX/	750.00 500.00 1,200.00	750.00 500.00 1,200.00	750.00 500.00 1,200.00	750.00 500.00 1,200.00	750.00 500.00 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.

## 1. GIGAMAN® SERVICE (cont'd)

/2/

## F. Prices (cont'd)

## 1. Service Elements (cont'd)

Description <u>/Billing Code/</u>	12 <u>Months</u>	Monthly Payment <i>Term Payment Plans</i>				Monthly <u>Extension</u>
		24 <u>Months</u>	36 <u>Months</u>	60 <u>Months</u>		
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 <sup>1/</sup> /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.

## 1. GIGAMAN® SERVICE (cont'd)

/1/

## F. Prices (cont'd)

## 2. Payment Plans

- 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.

/1/

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

1. **GIGAMAN® SERVICE (cont'd)**

/1/

F. **Prices (cont'd)**

## 3. Termination Charges (cont'd)

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

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.

1. **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 contact. 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.

1. **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.

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 19.1.

**GIGAMAN® SERVICE (cont'd)**

/1/

**F. Prices (cont'd)**

## 3. Termination Charges (cont'd)

Migration to AT&T Dedicated Ethernet

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

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

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/1/ Material formerly appeared in Part 15, Section 4, Sheet 19.2.

**1. 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 20.

## 1. 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.

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

**NETWORK RECONFIGURATION SERVICE (NRS)**

/1/

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

(N)  
(N)**A. Description**/1/  
/1/  
/1/

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 and Base Rate Service. 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.

/1/ Material formerly appeared on Part 15, Section 3, Sheet 122.

**NETWORK RECONFIGURATION SERVICE (NRS) (cont'd)**

/1/

**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 on Part 15, Section 3, Sheet 123.

**NETWORK RECONFIGURATION SERVICE (NRS) (cont'd)**

/1/

**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 U of this Guidebook.

/1/

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

**NETWORK RECONFIGURATION SERVICE (NRS) (cont'd)**

/1/

**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.)

/1/

Database Modification

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

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

**NETWORK RECONFIGURATION SERVICE (NRS) (cont'd)**

/1/

**E. Technical References**

<u>Subject</u>	<u>Technical Reference</u>
Ameritech OPTINET Reconfiguration Interface Specifications	AM TR-TMO-000064

These Technical References can be obtained from:

APEX Support Team  
(734) 523-7348

/1/

/1/ Material formerly appeared on Part 15, Section 3, Sheet 126.

**NETWORK RECONFIGURATION SERVICE (NRS) (cont'd)**

/2/

**F. Prices**

## 1. Service Elements

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>	Monthly Payment Term Payment Plans			<u>Monthly</u>
		<u>12 Months</u>	<u>36 Months</u>	<u>60 Months<sup>1/</sup></u>	
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

/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/ Material formerly appeared on Part 15, Section 3, Sheet 127. /2/

**NETWORK RECONFIGURATION SERVICE (NRS) (cont'd)**

/2/

**F. Prices (cont'd)**

## 1. Service Elements (cont'd)

<u>Description /Billing Code/</u>	Monthly Payment Term Payment Plans			<u>Monthly</u>
	<u>12</u> <u>Months</u>	<u>36</u> <u>Months</u>	<u>60</u> <u>Months</u> <sup>/1</sup>	
NRS System Location Port Termination - per termination				
Base Rate /PT5/	\$ 19.00	\$ 17.00	\$ 16.00	\$ 20.00
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

/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/ Material formerly appeared on Part 15, Section 3, Sheet 128. /2/

**NETWORK RECONFIGURATION SERVICE (NRS) (cont'd)**

/1/

**F. Prices (cont'd)**

## 1. Service Elements (cont'd)

<u>Description /Billing Code/</u>	<u>Nonrecurring Charge</u>
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*Optional Features*

## Database Modification

- per modification /FN6DC/	\$50.00
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## Attendant Access

- per first 30 minutes (per occurrence) /NRBN1/	55.00
- per additional 15 minute increments /NRBNA/	10.00

## NRS Training

- per hour of additional training /NRBNT/	50.00
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/1/ Material formerly appeared on Part 15, Section 3, Sheet 129.

**NETWORK RECONFIGURATION SERVICE (NRS) (cont'd)**

/2/

**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<sup>/1/</sup> period. After the selected Term Payment Plan 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.

/2/

## 4. Credit Allowance

/3/

A credit allowance will be given for failure to meet the installation interval service date or 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.

/3/

/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 on Part 15, Section 3, Sheet 130.

/3/ Material formerly appeared on Part 15, Section 3, Sheet 131.