

AT&T TEXAS GUIDEBOOK

PART 20 - Grandfathered Services

SECTION 15 - Dedicated Telecommunications / Private Line Services

1st Revised Sheet 1

Replacing Original Sheet 1

(D)

AT&T TEXAS GUIDEBOOK

PART 20 - Grandfathered Services

SECTION 15 - Dedicated Telecommunications / Private Line Services

1st Revised Sheet 2

Replacing Original Sheet 2

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AT&T TEXAS GUIDEBOOK

PART 20 - Grandfathered Services

SECTION 15 - Dedicated Telecommunications / Private Line Services

1st Revised Sheet 3

Replacing Original Sheet 3

(D)

LOCAL AREA DATA SERVICE^{/1/}

A. Regulations

In addition to the regulations specified Part 15, Section 1, the following regulation applies to these services:

Provision of this service does not contemplate connection to the public switched message network.

B. Description of Service

Local Area Data Service will provide, subject to availability of facilities, channels suitable for baseband transmission of data signals between two points on the same premises or different premises within the same serving office area. Service is limited to points that are not more than six (6) cable route miles apart, as determined by the Company, using normal cable routing between the points to be served. Service is offered only for balanced transmission of data signals conforming to the signal power limitations and other parameters specified in the applicable Bell System Technical Reference.

1. Local Area Data Service channels require use of non-loaded cable facilities. In the event that only loaded facilities are available, the Company will, at the customer's request, de-load facilities as specified under the Special Construction provisions of this guidebook as provided in Part 15, Section 1, **REGULATIONS** (for Analog Private Line Services), paragraph D.4.

2. Such channels are available in two types as follows:

Type 980 - Two-wire interface with effective two-wire facilities for use with customer-provided equipment with the transmission characteristics specified in B.3 following, and the applicable Bell System Technical Reference.

Type 981 - Four-wire interface with effective four-wire facilities for use with customer-provided equipment with the transmission characteristics specified in B.3 following, and the applicable Bell System Technical Reference.

3. Transmission specifications for Types 980 and 981 are dependent upon the route length of the facilities used to provide the service as follows:

<u>Maximum End-to-End Facility Length In Route Miles</u>	<u>Maximum Insertion Loss At 1000 Hz., in dB^{/2/}</u>
1	9.0
2	13.5
3	17.0
4	20.0
5	23.0
6	25.5

/1/ Obsolete -- Applicable to existing installations at existing locations for existing customers.

/2/ Insertion loss is referenced to 135 ohm resistance terminations at each end.

LOCAL AREA DATA SERVICE^{/1/} (cont'd)

C. Rates

1. Two-point service, same building^{/1/}

	<u>Monthly Charge</u>	<u>Service Charge^{/2/}</u>	<u>USOC</u>	<u>Class of Service</u>
Type 980	\$11.60	\$87.30	1LMGB	LDCAL
Type 981	22.60	87.30	1LMGB	LDCBL
	22.60	87.30	1L6GB	---

2. Two-point service, different building, same premises^{/1/}

	<u>Monthly Rate</u>		<u>Service Charge^{/2/}</u>	<u>USOC</u>	<u>Class of Service</u>
	<u>First 1/10 Mile</u>	<u>Add'l 1/10 Mile</u>			
Type 980	\$13.65	\$1.10	\$87.30	1LMGC	LDCAL
Type 981	27.30	2.20	87.30	1LMGC	LDCBL
	27.30	2.20	87.30	1L6GC	---

3. Local channel, each, per termination on a premises; different building, different premises, for two-point service^{/1/}

	<u>Monthly Rate</u>		<u>Service Charge^{/2/}</u>	<u>USOC</u>	<u>Class of Service</u>
	<u>First 1/4 Mile</u>	<u>Add'l 1/4 Mile</u>			
Type 980	\$15.95	\$2.65	\$87.30	1LMGJ	LDCAL
Type 981	26.60	5.30	87.30	1LMGJ	LDCBL
	26.60	5.30	87.30	1L6GJ	---

/1/ Obsolete -- Applicable to existing installations at existing locations for existing customers. No charge is applied if the facilities used by the customer are entirely located on the customer's side of a demarcation point and/or are part of premises wiring.

/2/ Charge applies per point of termination.

SERVED DIRECT SERVICE^{/1/}

A. Regulations

1. This offering is for specified two-point intraexchange channel types between different buildings on different premises which do not route through a serving office.
2. Served Direct Channel charges apply:
 - a. When it is the economic decision of the Company to provide served direct facilities.^{/2/}
 - b. When there is a minimum billing of fifteen (15) channels per each two-point configuration.
 - c. When the maximum airline distance between the two premises is one mile or less.
3. A customer may request this service offering when it is not the economic decision of the Company; however, in such cases, special construction charges as specified in Part 15, Section 1, **REGULATIONS** (for Analog Private Line Services), paragraph D.4 shall apply in addition to the rates and charges found in this section.

Where a customer requests a quotation for special construction charges associated with Served Direct Service and then elects not to subscribe to the service, a quotation charge for developing the charges shall apply. This charge will include all developmental hours associated with the design and preparation of an individual request.

4. Termination liability contracts (where applicable) in a customer-initiated request for Served Direct Service would be equal to the costs incurred for rearrangements of existing facilities and/or construction of new facilities as appropriate, less net salvage. Installed cost includes any expense associated with this particular case.
5. The service is limited to intraexchange channels but can involve Served Direct Service between two separate serving office areas.

B. Rates

Between different buildings on different premises

	Monthly Rate		Service Charge ^{/3/}	USOC	Class of Service
	First 1/10 Mile	Add'l 1/10 Mile			
Type 101	\$15.95	\$2.65	\$87.30	1LMCQ ^{/4/}	RMC1L
Type 315	15.95	0.00	87.30	1LLBQ	EXCHANGE
	0.00	2.00	0.00	1LLJQ	EXCHANGE
Type 423	15.95	2.65	87.30	1LMGQ ^{/5/}	PVLFL
Type 428	15.95	2.65	87.30	1LMKQ ^{/6/}	PVLLL

/1/ Obsolete -- Applicable to existing installations at existing locations for existing customers.
 /2/ A basic termination liability contract may be applicable in this case if the Company determines the facilities are not reusable.
 /3/ Charge applies per point of termination.
 /4/ Obsolete USOC (1L3QQ)
 /5/ Obsolete USOCs (1LPJQ) (1LLSQ)
 /6/ Obsolete USOCs (1LVBQ) (1LVBQ) (1LVJQ)

**OBSOLETE PRIVATE LINE SERVICES
(within the County of El Paso)**

A. Drop Wire Bridging^{/1/}

	<u>Monthly Rate</u>	<u>Service Charge</u>	<u>USOC</u>
Additional drop wire bridged at customer location for dual drop alarm operation	\$1.45	\$87.30	XL6

B. Line Extension Mileage Charges in Connection with Key Telephone Systems^{/2/}

1. Ordinarily, all telephones associated with key telephone systems are located within the same building. Where telephones of such systems are located in different buildings, mileage charges are applied on the basis of the number of circuits normally required to furnish the service features associated with the various sizes of multiline telephones and externally-mounted station key units. Where the same features appear in different telephones at the same continuous property location, mileage charges are not duplicated but rather, are associated with one or more of the telephones so as to produce the lowest total mileage charge.
2. The mileage rates specified below will apply in all cases where the furnishing of key telephone features involves continuous property mileage and the distances are within normal transmission limits for such services. Where continuous property stations are located beyond normal transmission limits or where key telephone features other than regular talking circuits are furnished at noncontinuous property locations, the service may be provided at additional rates and charges based on the circumstances in each individual case. Where talking circuits only are furnished at continuous or noncontinuous property locations in connection with nonbutton or 1-button telephones, regular line extension mileage charges will apply on the basis of circuits used.

<u>Button and/or lamp capacity of the key telephones</u>	<u>Each 1/10 mile or fraction thereof</u>	<u>USOC</u>
6-Button	\$9.75	1LLLE
	9.75	1LVLE
10- or 12-Button	29.10	1LLME
	29.10	1LLME
20- or 24-Button	58.15	1LLPE
	58.15	1LVPE
30-Button	72.70	1LLQE
	72.70	1LVQE

Note: Regular line extension mileage charges will apply for each circuit or fraction thereof required in connection with key telephones or key telephone equipment with a capacity of more than 30 buttons and/or lamps.

/1/ Applicable to existing installations.

/2/ Applicable to existing installations at existing locations.

OBSOLETE PRIVATE LINE SERVICES
(within the County of El Paso)

C. Obsolete Foreign Exchange Service^{/1/}

1. General

The regulations and rates contained herein apply to foreign exchange service where (1) the normal and foreign exchange areas are contiguous and (2) the service is furnished in unassigned territory immediately adjacent to the serving exchange, i.e., where the service may be provided by the normal extension of exchange plant. (See Part 15, Section 2 for rates and regulations applicable to foreign exchange service between noncontiguous exchanges and service at locations in unassigned territory not immediately adjacent to the serving exchange.)

Foreign exchange service is available in connection with the following services only:

- Business or residence individual line and rural main station service.
- Private branch exchange trunks
- Extension or private branch exchange station lines.

Foreign exchange service is furnished subject to the same conditions as to the use of the service as apply in connection with other classes of exchange service.

The local service area, local message charges and message toll charges of the serving (foreign) exchange apply to foreign exchange services.

Main stations or private branch exchange systems connected for foreign exchange service will be listed in the exchange from which the subscriber is served. Listings in an exchange other than the local exchange in which the service is furnished will be provided at the regular rates for foreign listings. (C)
(C)

Foreign exchange service is not furnished in connection with public main station services except that public service may be provided at the option of the Company outside of exchange areas.

/1/ Applicable to existing installations at existing locations.

OBSOLETE PRIVATE LINE SERVICES (cont'd)
(within the County of El Paso)

C. Obsolete Foreign Exchange Service^{/1/} (cont'd)

2. Rates and Charges

- a. Foreign exchange services are furnished at the regular rates and charges of the serving exchange for the class of service furnished plus a foreign exchange mileage charge specified below:

Where a foreign exchange service is integrated with a customer's local exchange service, as part of a private branch exchange or key telephone system, foreign exchange rates and charges apply only to the foreign exchange trunk or main station line service. Charges for extension stations or private branch exchange stations in such cases will be those of the normal exchange.

Residence or business service	<u>Monthly Rate</u>	<u>Service Charge</u>	<u>USOC</u>
Individual line service, per 1/4 mile	\$2.20	\$174.60	1LHAU
	2.20	174.60	1LHBU
Rural line service, per 1/4 mile	0.75	174.60	1LHEU

- b. Application of mileage charges.

- 1. Individual, party lines and private branch exchange trunk lines

Foreign exchange line mileage charges, as shown in C.2.a., preceding, apply to the airline distance from the main station or private branch exchange switchboard to the nearest point on the exchange boundary of the serving exchange. In addition, urban mileage charges apply from this point to the nearest point on the base rate area of the serving exchange.

- 2. Extension station lines and private branch exchange station lines

Where only one extension or private branch exchange station is served by a line from a main station or private branch exchange switchboard located in a different exchange area, foreign exchange line mileage charges are applied to the airline distance from the extension or private branch exchange station to the nearest point on the exchange area boundary of the exchange in which the main station or private branch exchange switchboard is located, plus extension line mileage charges applied from this point to the main station or private branch exchange switchboard as specified in the *Mileage* section of Part 4, Section 5.

- 3. Rural lines

The foreign exchange line mileage charge will apply to the airline distance measured from the main station to the nearest point on the boundary of the serving exchange and is in addition to the rural line rate applicable at that point.

/1/ Applicable to existing installations at existing locations.

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.

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A. General Description

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GigaMAN (Gigabit Metro Area Network) Service is an intraLATA dedicated high capacity service limited to the transport of data signals between customer stations. GigaMAN provides for the transmission of data at a discrete bit rate of 1 Gigabit per second (Gbps) in Ethernet format (Ethernet IEEE 802.3). GigaMAN is available in a point to point (node-to-node) configuration.

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. Regulations

In addition to the regulations contained in this guidebook, the following regulations apply to GigaMAN.

1. This service is only available to customers in those LATAs served by and within the service territories of the Company only.
2. The services provided for GigaMAN are primarily designed to meet the private line communications requirements of business customers, i.e., non-interexchange carriers.
3. 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.

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

/1/ (C)

GIGAMAN SERVICE (cont'd)

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B. Regulations (cont'd)

4. 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 Specification Packages* following).

- 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 unavailability event occurred.

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

GIGAMAN SERVICE (cont'd)

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C. Provision of Service

1. The customer provided equipment must deliver the data signals for GigaMAN transport within the industry specification for the subscribed data service. Interface specifications are as specified in the *Technical Specifications Packages* listed in paragraph E.
2. GigaMAN provides physical layer transport only. The Company assumes no responsibility for the through transmissions 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. The provision of GigaMAN Service is subject to the availability and operational limitations of the equipment and associated facilities. In the event that suitable facilities are not available, or modifications to existing facilities are required, Special Construction charges may be applicable as set forth in Part 15, Section 1 (REGULATIONS (for Digital Link Services)), paragraph D.8.
5. 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).
6. 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.
7. If Protection Options are added to an existing GigaMAN circuit that was installed after December 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.
8. Interoffice Channel Mileage charges are applicable on both paths of the GigaMAN Service when any of the Protection Options are ordered.

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

GIGAMAN SERVICE (cont'd)

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D. Channel Types

1 Gbps GigaMAN channel: an intraLATA dedicated high capacity channel, limited to the transport of data signals between customer stations. GigaMAN provides for the transmission of data at a discrete bit rate of 1 Gigabit per second (Gbps) in Ethernet format (Ethernet IEEE 802.3z).

E. Technical Specifications Packages

Technical specifications for GigaMAN Service are described in the following technical references:

Ethernet Standards for the SBC Local Exchange Companies	SBC TP-76412-000
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Network Performance Parameters for Dedicated Digital Services – Definitions and Measurements	ANSI T1.503-2002
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The technical specification 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 4.

GIGAMAN SERVICE (cont'd)

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F. Service Components

There are five basic rate elements, which may apply to GigaMAN Service:

- Local Distribution Channel
- Interoffice Channel Mileage
- Repeater
- Diversity Options
- Protection Options

1. Local Distribution Channel (LDC)

The local distribution channel is the channel between a customer's premises and the Company serving wire center that normally provides service to that customer's premises.

2. Interoffice Channel Mileage (ICM)

Interoffice channel mileage is defined as the component of the service between two Company serving wire centers. The serving wire centers may be located in the same exchange area, as in a multi-office metropolitan exchange, or may be located in different exchange areas.

Interoffice channel mileage charges include a fixed charge, and a per mile charge, which is based on the vertical and horizontal (V-H) distance between serving wire centers, or between exchanges, measured in whole miles. Fractional miles are rounded to the next whole mile.

V-H coordinates for serving wire centers can be found in the National Exchange Carrier Association, Inc. (NECA) Wire Center Information Tariff.

3. Repeater (RPTR)

A repeater (circuit regenerator) may be used to extend the transmission of GigaMAN signals (service) when necessary. In addition, the first repeater in any multi-repeater circuit will be used for service alarming and monitoring purposes.

4. Diversity Options

Route diversity 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. Diversity Options are only available to customers with service installed after October 24, 2003. Route diversity options are described in detail below under *Service Configurations*.

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

GIGAMAN SERVICE (cont'd)

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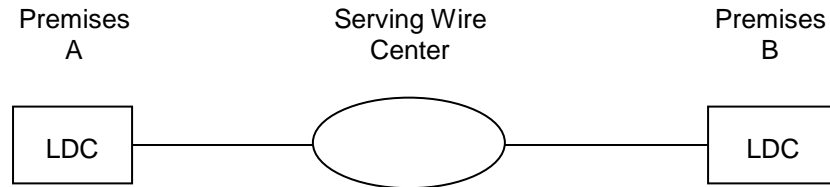
G. Service Configurations

All basic service configurations provide full duplex transmission. There is one basic type of GigaMAN Service configuration: Node-to-Node Service. GigaMAN Services from a customer data hub location to multiple points, or multiple GigaMAN Services between two customer data hub locations, are merely aggregated node-to-node services.

1. Node-to-Node

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

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



LDC – Local Distribution Channel

In this case, the applicable rate element is:

- Local Distribution Channels (two applicable)

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

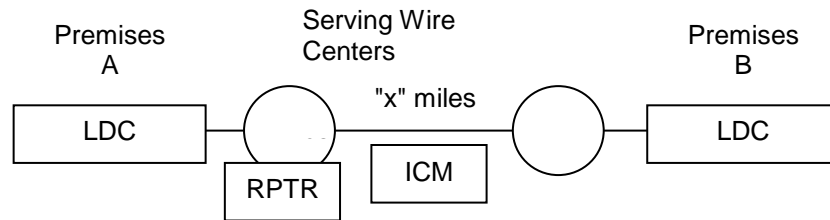
GIGAMAN SERVICE (cont'd)

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G. Service Configurations (cont'd)

1. Node-to-Node (cont'd)

- b. The following diagram depicts a node-to-node (inter-wire center) configuration connecting two customer designated premises with Serving Wire Centers located "x" miles apart^{/1/}.



LDC – Local Distribution Channel
ICM – Interoffice Channel Mileage
RPTR - Repeater (where required)

In this case, applicable rate elements are:

- Local Distribution Channels (two applicable)
- Interoffice Channel Mileage Fixed (one applicable)
- Interoffice Channel Mileage Per Mile ("x" applicable)
- Repeater (where required)

/2/

/1/ "x" miles is used for illustrative purposes in this guidebook due to the unique characteristics (or makeup) of each customer's GigaMAN circuit.

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/2/

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

GIGAMAN SERVICE (cont'd)

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G. Service Configurations (cont'd)

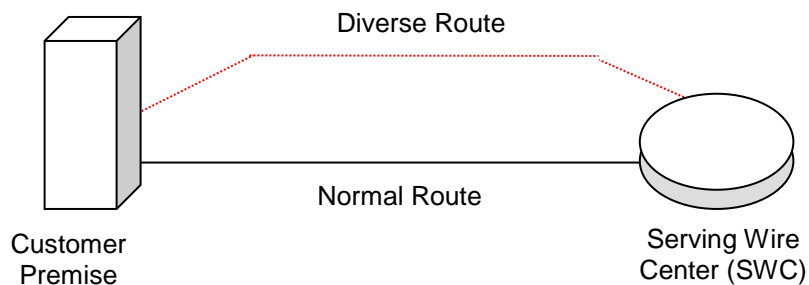
2. Diversity Options

Route diversity options are available where facilities exist. If appropriate facilities do not exist, Special Construction charges may apply.

GigaMAN offers three diversity options:

a. Local Channel Diversity (LCD)

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 local distribution channels will be provisioned over the standard route and one or more local distribution channels will be provisioned over the 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 8.

GIGAMAN SERVICE (cont'd)

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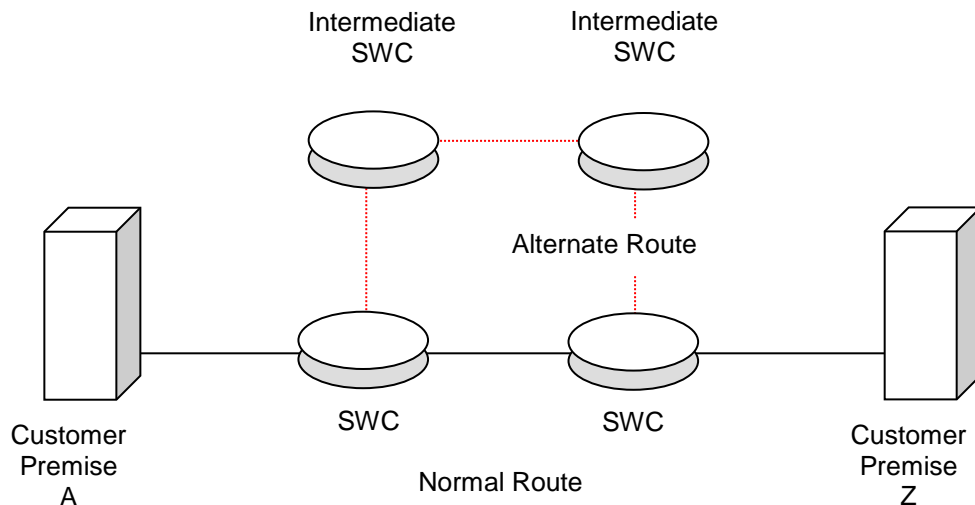
G. Service Configurations (cont'd)

2. Diversity Options (cont'd)

b. Inter-Wire Center Diversity (IWCD)

Inter-Wire Center Diversity arrangements presume that each end of a GigaMAN local distribution channel is served out of a different serving wire center (SWC). This arrangement provides a transmission path for GigaMAN local distribution channels between the customer's designated SWC and the serving wire center at the distant end of the circuit, over a transmission path that is separate from the standard transmission path between the two wire centers. Interoffice mileage will be calculated between the intermediate serving wire centers along the circuit path of the diversely routed 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.

In this scenario, the customer may or may not already have a GigaMAN local distribution channel operating over the normal (or standard) inter-office route. 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.



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

GIGAMAN SERVICE (cont'd)

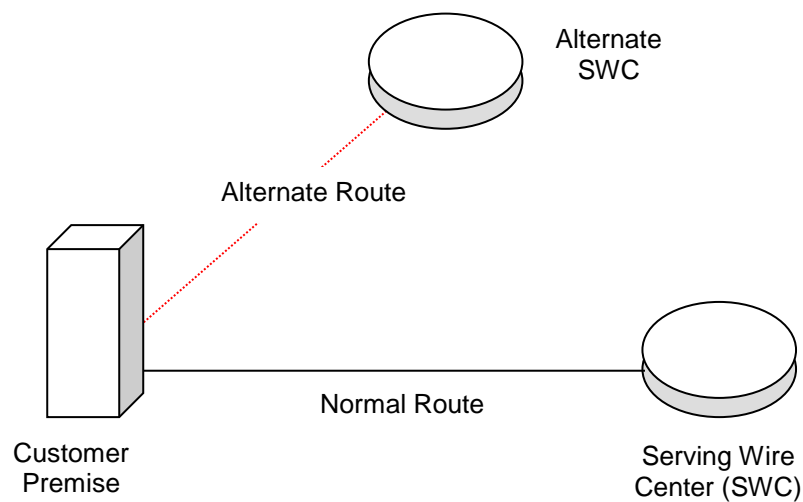
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G. Service Configurations (cont'd)

2. Diversity Options (cont'd)

c. Alternate Wire Center Diversity (AWCD)

Alternate Wire Center Diversity is for the local loop only. It provides a local channel 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 local distribution channels will be provisioned over the alternate route. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premise, at the customer's expense.



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

GIGAMAN SERVICE (cont'd)

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G. Service Configurations (cont'd)

3. Protection Options

Protection Options are available where facilities exist. If appropriate facilities do not exist, Special Construction charges may apply. Protection Options are only available to customers with service installed after December 19, 2003. In addition to charges for the various Protection Options, normal charges for the Local Distribution Channel and Interoffice 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).

GigaMAN offers the following Protection Options:

a. Equipment Only Protection (EOP)

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.

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

GIGAMAN SERVICE (cont'd)

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G. Service Configurations (cont'd)

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

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

Equipment Plus Fiber Path Protection, with:

Alternate Wire Center Path Protection (AWCPP)

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.

Local Channel Path Protection (LCPP)

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.

/1/

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

GIGAMAN SERVICE (cont'd)

/2/

G. Service Configurations (cont'd)

3. Protection Options (cont'd)

c. Inter-Wire Center Path Protection (IWCPP)^{/1/}

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.

d. Power Protection (PP)

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.

/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 13.

GIGAMAN SERVICE (cont'd)

/3/

H. Rates and Charges

1. Nonrecurring Charges are one-time charges that apply for specific work activity related to the provisioning of GigaMAN Service.

Installation Charge^{/1/}

- per local Distribution Channel \$1,500.00

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 of cabinet

- Power Protection /VBBGX/ 475.00

Per circuit

- Inter-Wire Center Path Protection^{/2/} /CPAHX/ 625.00

/3/

/1/ The Installation Charge is not applicable for those customers selecting the 36 or 60 month Term Pricing 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.

GIGAMAN SERVICE (cont'd)

/3/

H. Rates and Charges (cont'd)

2. Recurring Charges are flat recurring rates that apply each month or fraction thereof that the service is provided. Recurring rates may be applied only over a 12, 24, 36, or 60 month period under the terms and conditions of the Term Pricing Plan (TPP), described in 3. following. Upon completion of a TPP, a customer's service will automatically convert to the monthly rates unless the customer requests a new TPP. No customer shall purchase GigaMAN on a month-to-month basis prior to the completion of a TPP.

	<u>USOC</u>	<u>Monthly Extension Charge</u>	<u>Term Pricing Plan Monthly Contract Charge</u>			
			<u>12 Mo</u>	<u>24 Mo</u>	<u>36 Mo</u>	<u>60 Mo</u>
LDC	3LN5S	\$3,800	\$3,300	\$3,100	\$2,850	\$2,500
ICM	1DA8X					
Fixed		250	250	225	200	100
Per Mile		125	125	115	100	75
RPTR	VU4	2,500	2,400	1,700	1,150	850
MSR ^{/1/}	M1RGX	2,500	2,400	NA	1,150	850
Diversity						
LCD	CPALX	750	750	750	750	750
IWCD	CPATX	500	500	500	500	500
AWCD	CPAAX	1,200	1,200	1,200	1,200	1,200
Protection						
EOP	CPAEX	1,500	1,375	1,225	1,050	900
EP with						
AWCPP	CPAFX	2,460	2,050	1,840	1,600	1,400
LCPP	CPAGX	2,190	1,825	1,650	1,425	1,225
IWCPP ^{/2/}	CPAHX	475	375	200	150	100
PP	VBBGX	700	625	525	480	435

/3/

/1/ Effective October 24, 2003, service arrangements utilizing a legacy mid-span repeater 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.

/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 15.

GIGAMAN SERVICE (cont'd)

/1/

H. Rates and Charges (cont'd)

3. Term Pricing Plan

The Term Pricing Plan provides the customer with rate stabilization and discounted rates. The Term Pricing Plan provides for one, two, three or five year rate stabilization. Decreases in Term monthly recurring rates will be passed on to customers who participate in a Term Pricing Plan. The Company will notify customers participating in a Term Pricing Plan when Term monthly recurring rates are decreased.

Should the Company increase its rates during the Term Pricing Plan period, the customer would continue to pay the rates in effect at the time the customer elected to establish service under the Term Pricing Plan.

- a. The customer may choose to terminate an existing Term Pricing Plan before the end of the one, two, three or five year period and negotiate a new one, two, three or five year Term Pricing Plan. The new Term Pricing Plan must be based upon the rates that are currently in effect and available to all customers.
- b. The customer must provide the Company with a written notice of intent to renew a Term Pricing Plan no later than 90 days prior to its expiration. If the customer elects not to renew the Term Pricing Plan, or does not notify the Company of the customer's intent to renew the Term Pricing Plan, the service will automatically be billed under the monthly extension rates in effect at the time the Term Pricing Plan expires. Subsequently, customers under the monthly extension rates may convert their existing service to either a one, two, three or five year Term Pricing Plan. Nonrecurring charges will be waived at the time of conversion.
- c. Any special construction charges incurred for services billed under a Term Pricing Plan will be applicable as provided for in Part 15, Section 1 (for Digital Link Services).
- d. Customers requesting the termination of a Term Pricing Plan prior to the expiration date, excluding Term Pricing Plans terminated as a result of a renegotiation, will be charged a termination charge based on a percentage of the remainder of the term as indicated below:
 - All unpaid Special Construction or nonrecurring charges (excluding any waived charges); plus
 - Fifty percent (50%) of all recurring charges for the remaining balance of the customer's term

/1/

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

GIGAMAN SERVICE (cont'd)

/1/

H. Rates and Charges (cont'd)

3. Term Pricing Plan (cont'd)

d. (cont'd)

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

- The customer must issue a disconnect order for their legacy GigaMAN Service and place a service order for GigaMAN Service using the new equipment platform. Termination Charges for the legacy service will be waived. Standard nonrecurring charges to install GigaMAN Service using the new equipment platform will apply.
- The term of the new contract must be equal to or greater than the remaining time left on the legacy GigaMAN contract.

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

- e. For circuits installed prior to December 19, 2003, a customer may move one Local Distribution Channel of a GigaMAN Service during their TPP term to another location in the same LATA and keep the TPP in force (without assessment of Termination Charges), provided no lapse in service occurs. Nonrecurring charges, as appropriate, will apply.
- f. For circuits installed after December 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 17.

GIGAMAN SERVICE (cont'd)

/2/

H. Rates and Charges (cont'd)

3. Term Pricing Plan (cont'd)

- g. Customers will be permitted to add Protection Options to existing GigaMAN Service that was installed after December 19, 2003, without incurring Termination Charges, given the following conditions are met:

- the customer must issue a disconnect order for the existing circuit and place a service order for the newly protected circuit. Termination Charges for the existing circuit will be waived. Standard nonrecurring charges to install the newly protected GigaMAN Service will apply. (The conditions described here do not apply to Power Protection added to an existing GigaMAN circuit).
- Negotiated down time will apply, as the new circuit will need to be designed and installed.
- The term of the new contract must be equal to or greater than the remaining time left on the existing GigaMAN contract. (The conditions described here do not apply to Power Protection added to an existing GigaMAN circuit).
- The existing GigaMAN Service must have been in service for a minimum period of 12 months for a 2-year contract, 15 months for a 3-year contract or 18-months for a 5-year contract. Existing GigaMAN Service with 1-year contracts will not be eligible for this option. (The conditions described here do not apply to Power Protection added to an existing GigaMAN circuit).

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

- h. Customers re-negotiating an existing term payment plan contract expiring after December 19, 2003 will be required to migrate to the new equipment platform.
- i. 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.^{/1/}

/2/

/1/ Minimum in-service periods required for Upgrades only apply for service installed after July 20, 2007. /2/

/2/ Material formerly appeared in Part 15, Section 4, Sheet 18.

GIGAMAN SERVICE (cont'd)

/1/

H. Rates and Charges (cont'd)

3. Term Pricing Plan (cont'd)

j. Migration to AT&T Dedicated Ethernet

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

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

/1/

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

NETWORK RECONFIGURATION SERVICE (NRS) /1/
(associated with Analog Private Line Services) /1/

Effective October 30, 2018, Network Reconfiguration Service (NRS) (associated with Analog Private Line Services) 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)

Type 420, 422, 423, 424, 425 and 435 services in this guidebook may be terminated into a customer's Network Reconfiguration Service (NRS) channel port for the customer to reconfigure portions of his or her dedicated services network. Rates and regulations for NRS can be found in Part 15, Section 3. /1/

When service from this guidebook is included in a customer's NRS grid, only services jurisdictionally the same may be cross-connected. A customer may not connect an intraexchange private line service to an interexchange private line service. All jurisdictionally intraexchange private line services may be changed to interexchange service at the time of retermination into the NRS system and only one service charge will apply per circuit.

All services terminated into the NRS grid must also be those of the same customer ordering the NRS service. /1/

/1/ Material formerly appeared in Part 15, Section 2, Sheet 41.

NETWORK RECONFIGURATION SERVICE

/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. General

/1/

Network Reconfiguration Service (NRS) permits customers to access a database maintained by the Company to reconfigure their dedicated private line or Digital Link services networks. Customers access the database with a customer-provided terminal on their premises and can perform the reconfigurations without going through normal service order procedures.

B. Regulations

1. The regulations and rates specified herein are in addition to the applicable regulations found in other sections of this guidebook.
2. Provision of Service

NRS is available only at certain Company-designated hub locations where digital cross-connect systems (DCS) are located. NRS hub designations are found in the National Exchange Carrier Association, Inc. Wire Center Information Tariff (NECA Tariff).

NRS uses a central office DCS for the remote reconfiguration of dedicated service channels. The cross-connect devices currently used by the Company are DCSs which interface with either a DS1 (1.544 mbps) signal or a DS3 (44.73 mbps) signal, and cross-connect internally at the DSO (64 kbps) signal level. Customers can reconfigure their networks from their premises or may request the Company to perform the reconfigurations.

Customers access NRS with a customer-provided terminal on their premises using a dedicated line, available through Private Line Service (Part 15, Section 2) or MegaLink Digital Service (found in Part 15, Section 3), or on a dial-up basis with a local exchange line and seven digit telephone number.

(C)

Services that terminate in NRS are restricted to certain analog services available in Part 15, Section 2, MegaLink Digital Service and MegaLink III service and DS3 service (described in Part 15, Section 3) and Dataphone Digital Service (Part 20, Section 15). Service arrangements which use the public switched network in any way, (i.e., Foreign Exchange, Foreign Serving Office, MicroLink I, or local exchange service) may not be terminated directly to a channel port of the NRS service. NRS may be used with indirect terminations so long as the service arrangement does not expand the customer's local calling scope.

(C)

(C)

/1/

/1/ Material formerly appeared in Part 15, Section 3, Sheet 39.

NETWORK RECONFIGURATION SERVICE (cont'd)

/1/

C. Options and Features

1. Two reconfiguration options are available to NRS customers:
 - On-demand
 - Reservation

The on-demand option will make immediate changes to the network, while the reservation option will be executed at a specified time designated by the customer. Both types of reconfigurations are available whether the customer performs the reconfigurations or requests the Company to perform them.

2. Features

NRS provides the following features:

Routing

Allows customers to reroute dedicated circuits to different locations at DS0, DS1, or DS3 bandwidth.

Renaming

Allows customers to rename their network locations, circuits, and facilities.

Special day definition

Gives customers the capability to specify circuit reconfiguration on special dates, e.g., payday, holidays.

Resource verification

Allows customers to verify the resource availability for the reservation period in their reconfiguration request prior to the system's confirmation or denial of the request.

Transaction log

Provides customers a data base log that contains every transaction involving reconfigurations.

Multi-level security

Eliminates outside entry into a customer's circuit network arrangement inventory.

Compatibility table

Permits customers to view the allowable private line, Digital Link and Dataphone Digital combinations that can be used within their NRS.

Path priority

Gives customers the ability to prioritize their circuit paths when multiple routes exist.

Reservation summary screen

Allows customers to view the status of their reconfiguration reservations.

Simple commands and screens

Permits customers to use simple commands on screens with easy to use menus.

/1/

/1/ Material formerly appeared in Part 15, Section 3, Sheet 40.

NETWORK RECONFIGURATION SERVICE (cont'd)

/1/

C. Options and Features (cont'd)

2. Features (cont'd)

MACRO command/network modeling

Gives customers the ability to initiate with one command, multiple two-point cross-connections. Customers can build separate network models, such as day-time models, night-time models, and disaster recovery models, and invoke their activation or change from one to the other.

Variable bandwidth

Supports scheduled reconfigurations which allows for the interchange of an internodal facility as either a full DS3, DS1 or one or more subtending channels. This feature requires a DS3 or DS1 internodal facility in the customer's network, depending on the bandwidth requirement of the customer's services.

D. Technical Specifications

1. Services that are cross-connected by NRS must have identical technical characteristics to ensure compatibility and proper operation, e.g., data to data, voice to voice.
2. NRS specifications are delineated in Technical Reference TR-TSY-000366, which may be ordered from:

Bell Communications Research
Information Operations Center
60 New England Avenue
Piscataway, New Jersey 08854-4196

E. Rate Regulations

1. This section describes the NRS rate elements. Rate applications specific to this service are also included.
2. General

Four basic rate elements apply:

- Service establishment
- Database modification
- Port charge
- Reconfiguration charge

/1/

/1/ Material formerly appeared in Part 15, Section 3, Sheet 41.

NETWORK RECONFIGURATION SERVICE (cont'd)

/1/

E. Rate Regulations (cont'd)

3. Rate Element Description

a. Service establishment

The service establishment charge applies per customer database setup. The customer database setup is a grid, built by the Company, that contains all the circuits the customer will be able to control and reconfigure. Security, as well as circuit inventory, is built into the grid, permitting the customer control of his or her circuits. Customer training is included.

b. Database modification

The database modification charge applies (per customer contact or request) each time the customer requests a subsequent modification of its database grid. A modification can be an addition or deletion of circuits terminating on the cross-connect system, or a rearrangement of the database grid, i.e., an outside move, the rearrangement of the customer's routing priority, a change in the amount of bandwidth (from channelized data to video application), or a change in application of a DS1 (from all data to all voice).

c. Port charge

A port charge applies per port termination on the cross-connect system. There are two types of charges:

- Channel port charge – channel ports apply for termination of all eligible services other than MegaLink III - Wideband Digital Service/1.544 Mbps
- DS1 port charge – MegaLink III - Wideband Digital Service/1.544 Mbps port termination
- DS3 port charge – DS3 Service/44.736 Mbps port termination

d. Reconfiguration charge

A reconfiguration charge applies per cross-connect and disconnect successfully completed in a DCS per request.

There are two types of reconfiguration charges:

- For individual reservation or demand requests performed by the customer
- For individual reservation or demand requests performed by the Company at the customer's direction

4. Application of rates

- a. When NRS is used with private line, Digital Link, or Dataphone Digital services, apply rate elements per circuit as set forth in the applicable guidebooks. For service between two NRS hub locations, appropriate mileage rate elements apply based on the customer's desired capacity.
- b. Nonrecurring charges apply to an NRS port.
- c. One NRS port charge applies per circuit at the NRS hub. In addition, one port charge applies for each end of an interoffice or interexchange channel between two NRS hubs.

/1/

/1/ Material formerly appeared in Part 15, Section 3, Sheet 42.

NETWORK RECONFIGURATION SERVICE (cont'd)

/1/

F. Rates and Charges

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	<u>USOC</u>
1. Service Establishment Per database setup	None	\$1,770.00	FN6DD
2. Database Modification Per request	None	86.00	FN6DC
3. Port Charges - per port			
Channel port (DSO level)	\$11.00	21.00	PT5
DS1 port	45.00	48.00	PT6
DS3 port	395.00	75.00	D3D
4. Reconfiguration Charges			
Per cross connect and disconnect successfully completed per request			
Individual reservation or demand requests performed by customer	None	1.25	
Individual reservation or demand requests performed by the Company at the customer's request	None	8.00	

/1/

/1/ Material formerly appeared in Part 15, Section 3, Sheet 43.

PRIVATE NETWORK SERVICES

/1/

The rates contained in this Section for Private Network Services are available only to qualified customers of record as of November 3, 2014. Existing, qualified customers may continue their service at the location at which it was being provided on the aforementioned date through the expiration of their current contract term or the specified contract renewal term, whichever is later, or termination if it should occur prior to either the expiration of the contract or contract renewal term. Upon the expiration of the contract or contract renewal term, no rates provided pursuant to this Section will apply to the service, and the customer will have the option to either discontinue the service or continue using the service at applicable rates, terms and conditions posted in the current Guidebook. In the event that the service is terminated, discontinued or disconnected prior to the expiration of the contract or contract renewal term for any reason, the service will not be reestablished at rates, terms and conditions posted in this Section.

A. Regulations

1. Descriptive Summary

- a. Digital Broadband Private Network Services cover arrangements that are provided only to qualified customers located in an exchange area served by Southwestern Bell Telephone Company (the Company). Arrangements terminating at a non-Company location will be provided pursuant to the regulations, rates and charges of the other Local Exchange Telephone Company (LEC) for the portion of the arrangement in the other LEC's territory terminating at the non-Company location.
- b. These services are offered only for the exclusive use and purchase by educational institutions; libraries; nonprofit telemedicine centers of academic health centers, public or not-for-profit hospitals, or state-licensed health care practitioners; public or not-for-profit hospitals; projects funded by the Telecommunications Infrastructure Fund; or any legally constituted consortium or group of entities listed in this paragraph.
- c. Notwithstanding the restricted availability of these services to certain qualified customers as described in A.1.b, nothing shall preclude the provisioning of such services at the rates prescribed herein when ordered on behalf of a qualified customer by an authorized agent. Billing will be rendered to the qualified customer, who will continue to be responsible for payment of all billed amounts.

/1/

/1/ Material formerly appeared in Part 15, Section 5, Sheet 72.

PRIVATE NETWORK SERVICES (cont'd)

/1/

A. Regulations (cont'd)

2. Provision of Service

- a. Digital Broadband Private Network Services provided pursuant to this guidebook may be interconnected with other similar networks for distance learning, telemedicine, and information sharing purposes.
- b. Digital Broadband Private Network Services provided pursuant to this guidebook may not be shared or resold to other customers except that such services may be used and shared among the entities described in paragraph A.1.b above.
- c. Special Construction charges do not apply to Digital Broadband Private Network Services.
- d. An educational institution or a library may elect the rate treatment provided in this guidebook or the discount provided pursuant to other Company guidebooks as described in Section 3.605 of the Public Utility Regulatory Act.
- e. The rules and regulations found in this guidebook are in addition to other rules and regulations as stated in this and other Company guidebooks.
- f. Rates for the services provided under this guidebook will not be increased for six years from the date of election (September 1, 1995) except as otherwise provided in customer specific contracts.
- g. Qualifying customers currently under existing intrastate or interstate contracts may rollover those contracts to equivalent services under this guidebook, without termination penalties.

/1/

/1/ Material formerly appeared in Part 15, Section 5, Sheet 72.1.

PRIVATE NETWORK SERVICES (cont'd)

/1/

A. Regulations (cont'd)

2. Provision of Service (cont'd)

- h. Services offered under this guidebook are subject to a twelve month minimum term; termination provisions will apply as follows:
 - MegaLink III: Part 15, Section 3
 - Network Reconfiguration Service (NRS): not applicable until NRS is available under a term payment plan.
- i. Services offered under this guidebook may be interconnected only with jurisdictionally intrastate services, except as otherwise provided in the Company's state and interstate tariffs. For purposes of this guidebook, interconnection of these services to the State of Texas' TEX-AN network is authorized, as well as to the jurisdictionally interstate services of the qualified customers.
- j. Customers obtaining services under this guidebook who are not qualified customers are subject to having such services disconnected or to being charged standard guidebook rates.
- k. Services offered under this guidebook will be provisioned to the premises of qualified customers (as defined in paragraph A.1.b) only. Examples of authorized serving arrangements include:
 - 1. Between the premises of qualified customers in the Company's serving area.
 - 2. From the premises of qualified customers in the Company's serving area to the premises of qualified customers in the serving area of certificated connecting carriers.
 - 3. From the premises of qualified customers in the Company's serving area to Company central offices for multiplexing purposes.
 - 4. From the premises of qualified customers in the serving area of certificated connecting carriers to Company central offices for multiplexing purposes.
 - 5. From the premises of a qualified customer to the premises of another customer, when ordered by the authorized customer (e.g., special access service from a hospital to an IXC POP).
 - 6. Between Company central offices when associated with an otherwise authorized serving arrangement.
- l. Serving arrangements that do not terminate at the premises of an authorized customer are not authorized. Examples of serving arrangements that are not authorized include:
 - Between the premises of other customers, even if ordered by a qualified customer (e.g., special access service from a business to an IXC POP)

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 73.

PRIVATE NETWORK SERVICES (cont'd)

/1/

A. Regulations (cont'd)

3. Definitions

For the purpose of this guidebook, the following definitions shall apply:

Bit

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

Building

Denotes a structure under one roof or two or more structures on one premises which are connected by an enclosed or covered passageway which is interpreted to mean "same building". In no case can conduit be considered as an enclosed passageway nor buildings connected by a covered public mall be the "same building".

Central Office

A local Company switching system where telephone exchange service customer station loops are terminated for purposes of interconnection to each other and to trunks.

Channel

A communications path between two or more points of termination

Channelize

The process of multiplexing-demultiplexing wider bandwidth or higher speed channels into narrower bandwidth or lower speed channels.

Clear Channel Capability

A feature that provides customers with an increase in usable bandwidth by providing unconstrained data streams across the network.

Cluster

A group of at least two and no more than twelve schools that are located within the same geographic area, share an educational community of interest, a desire to share classroom resources and have agreed through a mutual agreement, pact, or consortium arrangement to join together for purposes of purchasing *Broadband Educational Videoconferencing Service* via this guidebook.

Control Site

At least one school site within a cluster of schools that is designated by the school district, college, university and/or other organized group of schools for the purpose of establishing video conferences within a cluster of schools utilizing *Broadband Educational Videoconferencing Service*.

Control System

A control system permits a control site within a cluster access to control and arrange connections to their *Broadband Educational Videoconferencing Service*.

/1/

/1/ Material formerly appeared in Part 15, Section 5, Sheet 74.

PRIVATE NETWORK SERVICES (cont'd)

/1/

A. Regulations (cont'd)

3. Definitions (cont'd)

Demarcation point

The point of demarcation and/or interconnection between Company communications facilities and terminal equipment, protective apparatus or wiring at a subscriber's premises. Company-installed facilities at, or constituting, the demarcation point shall consist of wire or a jack conforming to Subpart F of Part 68 of the FCC's rules. "Premises" as used herein generally means a dwelling unit, other building or a legal unit of real property such as a lot on which a dwelling unit is located, as determined by the Company's reasonable and nondiscriminatory standard operating practices. The "minimum point of entry" (MPOE) as used herein shall be either (1) the closest practicable point to where the wiring crosses a property line or (2) the closest practicable point to where the wiring enters a multiunit building or buildings. The Company's reasonable and nondiscriminatory standard operating practices shall determine which of (1) or (2) above shall apply. The Company is not precluded from establishing reasonable classifications of multiunit premises for purposes of determining which of (1) or (2) above shall apply. Multiunit premises include, but are not limited to, residential, commercial, shopping center and campus situations.

Single Unit Installations - For single unit installations existing as of June 9, 1994, and installations installed after that date, the demarcation point shall be a point within twelve inches of the protector or, where there is no protector, within twelve inches of where the telephone wire enters the customer's premises.

Multiunit Installations

1. In multiunit premises existing as of June 9, 1994, the demarcation point shall be determined in accordance with the Company's reasonable and nondiscriminatory standard operating practices. Provided, however, that where there are multiple demarcation points within the multiunit premises, a demarcation point for a customer shall not be further inside the customer's premises than a point twelve inches from where the wiring enters the customer's premises.
2. In multiunit premises in which wiring is installed after June 9, 1994, the multiunit premises owner shall determine the location of the demarcation point or points. The multiunit premises owner shall determine whether there shall be a single demarcation point location for all customers or separate such locations for each customer. Provided, however, that where there are multiple demarcation points within the multiunit premises, a demarcation point for a customer shall not be further inside the customer's premises than a point twelve inches from where the wiring enters the customer's premises.

At this time, the Company has elected not to establish a practice of placing the demarcation point at the MPOE for multiunit premises. However, at the customer's request, the Company will place the demarcation point at the MPOE in existing installations, and as appropriate, in new installations. The Company will relocate multiple demarcation points to a single demarcation point at an MPOE in a manner that minimizes any resultant charges or other adverse impact to either building owners or customers.

If conforming to the twelve inch limitation is unrealistic or technically impossible, the demarcation point will be the most practicable MPOE.

/1/

/1/ Material formerly appeared in Part 15, Section 5, Sheet 75.

PRIVATE NETWORK SERVICES (cont'd)

/1/

A. Regulations (cont'd)

3. Definitions (cont'd)

Distance Learning

Instruction, learning, and training that is transmitted from one site to one or more sites by telecommunications services that are used predominantly for such instruction, learning, or training, including video, data, voice, and electronic information.

Educational Institution

An educational institution means and includes accredited primary or secondary schools owned or operated by state and local government entities or private entities; institutions of higher education as defined by Section 61.003, Education Code; private institutions of higher education accredited by a recognized accrediting agency as defined by Section 61.003(13), Education Code; the Central Education Agency, its successors and assigns; regional education service centers established and operated pursuant to Sections 11.32 and 11.33, Education Code; and the Texas Higher Education Coordinating Board, its successors and assigns.

Exchange

A unit generally smaller than a local access and transport area (LATA), established by the Company for the administration of communications service in a specified area which usually embraces a city, town or village and its environs. It consists of one or more central offices together with the associated facilities used in furnishing communications service within that area. One or more designated exchanges comprise a given LATA.

Hub

Denotes a Company designated serving wire center at which bridging, multiplexing, Network Reconfiguration Service or Transport Resource Management Service functions are performed.

Individual Case Basis (ICB)

Denotes a condition in which the regulations, if applicable, rates and charges for an offering under the provisions of this guidebook are developed based on the circumstances in each case.

Interexchange Carrier (IC)

Any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged for hire in interstate or foreign communication by wire or radio, between two or more exchanges.

IntraLATA Service

Digital broadband private network services where service points are all within the same LATA.

Isochronous

Transmission timing derived from the signal carrying the data (i.e., no timing or clock lead is provided at the customer interface).

LAN

Local Area Network

Library

A public library or regional library system as those terms are defined by Section 441.122, Government Code, or a library operated by an institution of higher education or a school district.

/1/

/1/ Material formerly appeared in Part 15, Section 5, Sheet 76.

PRIVATE NETWORK SERVICES (cont'd)

/1/

A. Regulations (cont'd)

3. Definitions (cont'd)

Local Access and Transport Area (LATA)

A geographic area established for the administration of telecommunications service. It encompasses designated local operating Company exchanges which are grouped to serve common social, economic and miscellaneous purposes.

Megacell

One million Asynchronous Transfer Mode cells.

Multiplexing

An arrangement that converts a higher bit rate signal to lower bit rate, or bandwidth, or from digital to voice grade channels.

Network Channel Terminating Equipment (NCTE)

Equipment located on customer premises for the purpose of providing certain transmission enhancements and network maintenance capabilities. For instance, NCTE corrects electrical distortion and static, tests for problems in transmission lines, performs signal amplification, and protects against hazardous power surges.

Network Interface

That point of connection at the customer's premises where premises services are connected to the telecommunications network. The network interface is a standard registration jack or its equivalent. (see *Demarcation Point*)

Network Reconfiguration Service (NRS)

A central office-based service which permits customers to remotely reconfigure their dedicated networks without going through normal Company service order procedures.

Network Reconfiguration Service hub (NRS hub)

Designated Company wire center where NRS is provided. An NRS hub may be collocated with a Company-designated digital hub, but not all digital hubs are designated as NRS hubs. NRS hub locations are specified in the National Exchange Carrier Association Inc. Wire Center Information Tariff (NECA Tariff).

On-Site Location

The location where the teacher is physically located, instructional material is originated, and control of the conference originates.

/1/

/1/ Material formerly appeared in Part 15, Section 5, Sheet 77.

PRIVATE NETWORK SERVICES (cont'd)

/1/

A. Regulations (cont'd)

3. Definitions (cont'd)

Premises

All portions of the same building occupied by the same customer, provided that:

- All portions are not separated from each other by intervening offices, rooms or suites not occupied by the customer.
- The portions on different floors are contiguous and that the portion on the upper floor is directly above the portion occupied on the lower floor.

All of the buildings occupied by the same customer, provided that:

- All of the buildings are located on the same continuous property, which is owned and/or leased by the same customer, and are not separated by a public highway.

Note: A public highway is considered to mean a vehicular thoroughfare which is governmentally owned.

School Site

A building or buildings used predominately by one school district, college or university in its educational efforts.

Second Classroom

A classroom located on the same campus as the primary classroom.

Serving Wire Center

The end office from which the customer designated premises would normally obtain dial tone from the Company for local exchange purposes.

SWBT

Southwestern Bell Telephone Company (the Company).

Telecommunications Network

All facilities of the Company that are used to provide its services.

Telemedicine Center

Means a facility equipped to transmit by video, data, or voice service medical information for the purpose of diagnosis or treatment of illness or disease, owned or operated by a public or not-for-profit hospital including an academic health center or such facility owned by any state-licensed health care practitioner or group of practitioners and operated on a nonprofit basis.

Uniform Service Order Code (USOC)

A three or five character alphabetic, numeric, or an alphanumeric code that identifies a specific item of service or equipment. USOCs are used in the Company billing system to generate recurring and nonrecurring charges.

(C)

/1/ Material formerly appeared in Part 15, Section 5, Sheet 78.

PRIVATE NETWORK SERVICES (cont'd)

/2/

B. Service and Rates

1. General

- a. In addition to the regulations set forth in paragraph A. *Regulations* of this guidebook applicable to Private Network Services, additional regulations apply as set forth throughout this section.
- b. The digital broadband private network services listed in this section are available only to qualified customers, as stated in paragraph A.1.b preceding.
- c. Services available under this guidebook include:
 - MegaLink III Service (1.544 Mbps)^{/1/}
 - MegaLink Custom Service (45 Mbps)^{/1/}
 - Network Reconfiguration Service (NRS)^{/1/}
 - Other Private Network Services^{/1/}

/1/ The rates contained in this Section for Private Network Services are available only to qualified customers of record as of November 3, 2014. Existing, qualified customers may continue their service at the location at which it was being provided on the aforementioned date through the expiration of their current contract term or the specified contract renewal term, whichever is later, or termination if it should occur prior to either the expiration of the contract or contract renewal term. Upon the expiration of the contract or contract renewal term, no rates provided pursuant to this Section will apply to the service, and the customer will have the option to either discontinue the service or continue using the service at applicable rates, terms and conditions posted in the current Guidebook. In the event that the service is terminated, discontinued or disconnected prior to the expiration of the contract or contract renewal term for any reason, the service will not be reestablished at rates, terms and conditions posted in this Section.

/2/ Material formerly appeared in Part 15, Section 5, Sheet 79.

/2/

PRIVATE NETWORK SERVICES (cont'd)

/1/

B. Service and Rates (cont'd)

2. Description of Services

a. MegaLink III Service

The rates contained in this Section for Private Network Services are available only to qualified customers of record as of November 3, 2014. Existing, qualified customers may continue their service at the location at which it was being provided on the aforementioned date through the expiration of their current contract term or the specified contract renewal term, whichever is later, or termination if it should occur prior to either the expiration of the contract or contract renewal term. Upon the expiration of the contract or contract renewal term, no rates provided pursuant to this Section will apply to the service, and the customer will have the option to either discontinue the service or continue using the service at applicable rates, terms and conditions posted in the current Guidebook. In the event that the service is terminated, discontinued or disconnected prior to the expiration of the contract or contract renewal term for any reason, the service will not be reestablished at rates, terms and conditions posted in this Section.

1. Provision of Service

MegaLink III service is an intraLATA dedicated high capacity channel used for simultaneous two-way transmission of serial, bipolar, return-to-zero isochronous digital signals at a transmission speed of 1.544 megabits per second (Mbps). The channel design, performance and maintenance objectives are specified in Company Technical Publication TP-76625.

MegaLink III service is available only on a point-to-point intraLATA basis, except as otherwise authorized under paragraph B.2.a.2.

Additional service features, i.e., central office multiplexing, clear channel capability, and extended superframe format are available with MegaLink III service.

MegaLink III service is furnished on a full time basis (24 hours a day, seven days a week).

The Company has the service responsibility up to the demarcation point. The demarcation point will be provided by the Company as set forth in Bellcore Technical Advisory TA-TSY-000342. This publication provides transmission parameter limits and interface combinations for high capacity special access services and may be obtained from:

Bell Communications Research
Information Operations Center
60 New England Avenue
Piscataway, N.J. 08854-4196

The placement of the demarcation point shall be located in a manner consistent with federal and state regulatory requirements. This location will be at each customer's premises, unless specified otherwise by the customer or building/landowner and agreed to by the Company.

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 80.

PRIVATE NETWORK SERVICES (cont'd)

/1/

B. Service and Rates (cont'd)

2. Description of Services (cont'd)

a. MegaLink III Service (cont'd)

2. Application of Rates

MegaLink III service rates apply:

- (a) Per location for service provided between a qualified customer's premises, where the service is wholly within Company territory.
- (b) Per location for service provided from a qualified customer's premises in Company territory up to the point of interconnection with the facilities of a non-Company telephone company. The other telephone company's rates and regulations apply to the portion of the services provided by it.
- (c) Per location for service provided from a qualified customer's premises in Company territory to an Interexchange Carrier (IXC) point-of-presence (POP) in the same LATA. The IXC's rates and regulations apply to the portion of the service provided by it.

Where service from a qualified customer's premises to either an IXC POP or to the point of interconnection with a non-Company telephone company has been provided on an individual case basis (ICB), the customer will have the option to keep the service at the ICB rate or to rollover from the ICB rate to the rates in this guidebook. Such rollovers:

- (a) Must be to a like term (e.g., one year ICB rate to one year guidebook rate), or longer.
- (b) Will not be assessed a termination charge.

In the event the qualified customer elects to keep the service at the ICB rate, the equivalent rate in this guidebook will apply at the expiration of the ICB term.

MegaLink III rates do not apply:

- (a) When a qualified customer requests only transport mileage, e.g., between Company NRS nodes or multiplexers.
- (b) When a qualified customer requests only transport mileage from a Company NRS node or multiplexer to the point of interconnection with a non-Company telephone company.

Requests involving transport mileage only will be provided on an ICB-basis.

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 81.

PRIVATE NETWORK SERVICES (cont'd)

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B. Service and Rates (cont'd)

2. Description of Services (cont'd)
 - a. MegaLink III Service (cont'd)
3. MegaLink III Service Not Equipped with SecureNet

Digital equipment provided by the customer is subject to the regulations set forth in Part 15, Section 3, *MegaLink III – Wideband Digital Service/1.544 Mbps*.

MegaLink III service may be terminated in a port of a Company-provided Network Reconfiguration Service (NRS) arrangement at a designated NRS hub location. The DS1 port on the NRS arrangement will be considered as a service point on the circuit. Refer to Part 15, Section 3, *Network Reconfiguration Service* for additional regulations concerning NRS.

Availability is a measure of the relative amount of time that a service is “usable” to the customer. For the purposes of MegaLink III service, service is considered unavailable when 10 consecutive severely errored seconds (SEs) are received. The service becomes available again when no SEs are received for 10 consecutive seconds.

The availability objective for MegaLink III service is 99.975% availability when averaged over three months.

The Company, in order to ensure the highest performance standards and service availability to the customer, offers the following service guarantee:

If a MegaLink III service fails due to Company-provided equipment or facilities and the service is not restored to the customer within four hours of the outage report and the service is made available to the Company by the customer during those four hours, the customer will be credited for the full month of service on the following month's bill. This guarantee is subject to the following conditions:

- (a) The monthly credit will be applied on a per circuit, per occurrence basis and will only be applied once during a month's period. Credits are not cumulative.
- (b) The trouble cause must be isolated to Company-provided equipment. Trouble determined to be caused by customer-provided equipment, or trouble that clears without a positive determination as to cause, will not qualify for the service credit.
- (c) The outage must be reported by the customer. The Company initiated reports will not qualify for a service credit.

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 82.

PRIVATE NETWORK SERVICES (cont'd)

/1/

B. Service and Rates (cont'd)

2. Description of Services (cont'd)
 - a. MegaLink III Service (cont'd)
 3. MegaLink III Service Not Equipped with SecureNet (cont'd)

If a MegaLink III service fails due to Company-provided equipment or facilities and the service is not restored to the customer within four hours of the outage report and the service is made available to the Company by the customer during those four hours, the customer will be credited for the full month of service on the following month's bill. This guarantee is subject to the following conditions: (cont'd)

- (d) There may be occasions when the service does not meet the required operating parameters, but due to business conditions the customer will not release the circuit for immediate testing. The service must be made available to the Company for testing and maintenance. The four hour clock does not begin until the outage is reported by the customer and the service is made available by the customer to the Company for repair.
- (e) On MegaLink III service that uses central office multiplexing provided by the Company, the service credit applies only to the MegaLink III portion of the service, and will not apply to the derived channels nor to the multiplexing using the MegaLink III service.
- (f) The service guarantee applies to recurring rates and charges for MegaLink III service.
- (g) On MegaLink III service used with NRS, the service credit applies only to the MegaLink III portion of the service, and will not apply to NRS.

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 83.

PRIVATE NETWORK SERVICES (cont'd)

/1/

B. Service and Rates (cont'd)

2. Description of Services (cont'd)

a. MegaLink III Service (cont'd)

4. Additional Service Features

(a) Central Office Multiplexing

Central office multiplexing is an arrangement which converts a MegaLink III channel to multiple channels suitable for use with voice grade or subrate digital services. Central office multiplexing is available only in certain Company-designated multiplexing hub locations. Refer to the NECA Wire Center Information Tariff for locations. Special routing may be required in order to provide this service. There are three levels of central office multiplexing available:

1.544 Mbps (DS1) to Voice

This arrangement provides for twenty-four (24) channels for use with voice or voice grade data services. Derived channels of the 1.544 Mbps channel to the hub may also be used for MegaLink I Service or Dataphone Digital Service. Voice grade services may not include services which terminate directly into the public switched network.

1.544 Mbps (DS1) to 64 kbps (DS0)

An arrangement that converts a 1.544 Mbps channel to twenty-three (23) 64 kbps channels using digital time division multiplexing.

64 kbps (DS0) to Subrate

An arrangement that converts a 64 kbps channel to subspeeds of up to twenty (20) 2.4 kbps, ten 4.8 kbps or five 9.6 kbps channels using digital time division multiplexing. This feature is available only in conjunction with 1.544 Mbps (DS1) to 64 kbps (DS0) multiplexing as part of a cascading multiplex arrangement in the same multiplexing hub location.

(b) Clear Channel Capability

Clear channel capability (CCC) is a feature that provides the customer with an increase in usable bandwidth from 1.344 Mbps to 1.536 Mbps of an unconstrained data stream across the network. CCC is provided on MegaLink III service and provisioning of CCC in our network requires the customer signal at the channel interface to conform to bipolar with eight zero substitution (B8ZS) line code format as described in Bellcore Technical Advisory TA-TSY-000342. Customer equipment must be compatible with this method of providing the unconstrained signal. Provision of this feature may require special routing of the interoffice channel mileage.

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 84.

PRIVATE NETWORK SERVICES (cont'd)

/1/

B. Service and Rates (cont'd)

2. Description of Services (cont'd)

a. MegaLink III Service (cont'd)

4. Additional Service Features (cont'd)

(c) Extended Superframe Format

Extended superframe format (ESF) is an option that passes a customer-provided framing format for MegaLink III service. ESF extends the customer's 1.544 Mbps framing structure from 12 to 24 frames and divides the 8 kbps 193rd position pattern into three distinct functions: 2 kbps for frame synchronization, 2 kbps for cyclic redundancy checking, and 4 kbps for performance monitoring.

5. Surcharge

(a) General

This surcharge compensates the Company for use of the local exchange network when MegaLink III service is connected to a PBX or equivalent device which is capable of interconnecting the MegaLink III service, or a derived voice-equivalent channel carrying an interexchange private line service, with local exchange service. MegaLink III service can provide a maximum of 24 voice-equivalent channels per service arrangement. The Company will automatically bill the appropriate surcharge on each voice-equivalent channel irrespective of whether the interconnection capability exists in the customer's premises equipment or in a Centrex-CO type switch unless the service is exempted from the surcharge by one of the methods in (b) following.

(b) Exemption from the Surcharge

A customer may be exempted from the surcharge if the customer certifies that the MegaLink III service derived voice-equivalent channel is terminated in a device not capable of interconnecting the service with local exchange service. The customer may also be exempted by certifying that the derived voice-equivalent channel is associated with a switched access service in the same LATA that is subject to carrier common line (CCL) charges.

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 85.

PRIVATE NETWORK SERVICES (cont'd)

/1/

B. Service and Rates (cont'd)

2. Description of Services (cont'd)

a. MegaLink III Service (cont'd)

5. Surcharge (cont'd)

(c) Exemption Certification

Exemption certification shall be in the form of a written notification to the Company. Such notification shall be provided by the customer, (1) at the time the service is ordered, or (2) at such time as the service is reterminated to a device not capable of interconnecting to the local exchange network, or (3) at such time as the service becomes associated with a switched access service that is subject to CCL charges.

The exemption certification is to be provided by the customer ordering the service. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in the preceding for each termination, and the date which the exemption is effective.

If written certification is not received at the time an order for MegaLink III service is placed, the surcharge will be applied for each derived voice-equivalent channel. Exempt status will become effective on the date certification is received by the Company.

The customer shall notify the Company when an exempted MegaLink III service is changed or reterminated such that the exemption is no longer applicable.

(d) Crediting the Surcharge

The Company will cease billing the surcharge when certification that the service has become exempt from the surcharge as set forth in (c) preceding, is received. If the status of the service was changed prior to receipt of the exemption certification, the Company will credit the customer's account that amount up to and limited to 90 days (three months) billing based on the effective date of the change specified by the customer in the letter of certification.

(e) Application of Surcharge

A surcharge applies to each distant termination of an interexchange private line channel that may be using a derived voice channel on a MegaLink III service. For two point private line services, one surcharge is applicable. For multipoint private line services, one charge is applicable for each local channel in excess of one.

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 86.

PRIVATE NETWORK SERVICES (cont'd)

/7/

B. Service and Rates (cont'd)

2. Description of Services (cont'd)

a. MegaLink III Service (cont'd)

6. Rates and Charges

	<u>1 Year</u>	<u>3 Years</u>	<u>5 Years</u> ^{/3/}	<u>USOC</u>
Per location				
Monthly rate	\$136.19	\$138.29	\$140.38	H3M1X
Nonrecurring charge ^{/1/}	746.95	765.81	784.67	
<i>Clear Channel Capability</i> ^{/2/}				
Per local distribution channel				C2L
<i>Extended Superframe Format</i> ^{/2/}				
Per local distribution channel				SFR
<i>Central Office Multiplexing</i>				
1.544 Mbps (DS1) to Voice ^{/4/}				
Per arrangement				
Monthly charge	190.67	192.76	195.90	MKB6X
Nonrecurring charge	None	None	None	
1.544 Mbps (DS1) to 64.0 kbps (DS0)				
Per arrangement				
Monthly charge	190.67	192.76	195.90	MQ6
Nonrecurring charge	None	None	None	
64.0 kbps (DS0) to Subrate ^{/4,5, 6/}				
Per arrangement				
Up to twenty 2.4 kbps services				QMU24
Up to ten 4.8 kbps services				QMU48
Up to five 9.6 kbps services				QMU96

/1/ Nonrecurring charges do not apply to the initial installation, but do apply to subsequent moves and/or rearrangements.

/2/ Rates and charges are as found in Part 15, Section 3, *MegaLink III – Wideband Digital Service/1.544 Mbps*.

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

/4/ For rates for analog voice or data channels used in conjunction with this multiplexing arrangement, refer to Part 15, Section 2. For rates for *MegaLink Digital Service* refer to Part 15, Section 3. For rates for *Dataphone Digital Service* refer to Part 15, Section 5.

/5/ This additional service feature also requires the purchase of DS1 to DS0 multiplexing as described above.

/6/ For rates for digital subrate services (2.4, 4.8, and 9.6 kbps) used in conjunction with this multiplex arrangement, refer to *MegaLink Digital Service* in Part 15, Section 3 or *Dataphone Digital Service* in Part 15, Section 5.

/7/ Material formerly appeared in Part 15, Section 5, Sheet 87.

/7/

PRIVATE NETWORK SERVICES (cont'd)

/2/

B. Service and Rates (cont'd)

2. Description of Services (cont'd)

a. MegaLink III Service (cont'd)

6. Rates and Charges (cont'd)

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	<u>USOC</u>
Surcharge Per voice-equivalent channel terminated on a customer's premises ^{/1/}	\$25.00	None	S25

/1/ Refer to Part 15, Section 1, **REGULATIONS** (*Private Line Services*) for regulations on the application of surcharges for the distant termination of an interexchange private line channel that may be using a derived voice channel on a MegaLink III service

/2/ Material formerly appeared in Part 15, Section 5, Sheet 88.

/2/

PRIVATE NETWORK SERVICES (cont'd)

/3/

B. Service and Rates (cont'd)

2. Description of Services (cont'd)

b. MegaLink Custom

The rates contained in this Section for Private Network Services are available only to qualified customers of record as of November 3, 2014. Existing, qualified customers may continue their service at the location at which it was being provided on the aforementioned date through the expiration of their current contract term or the specified contract renewal term, whichever is later, or termination if it should occur prior to either the expiration of the contract or contract renewal term. Upon the expiration of the contract or contract renewal term, no rates provided pursuant to this Section will apply to the service, and the customer will have the option to either discontinue the service or continue using the service at applicable rates, terms and conditions posted in the current Guidebook. In the event that the service is terminated, discontinued or disconnected prior to the expiration of the contract or contract renewal term for any reason, the service will not be reestablished at rates, terms and conditions posted in this Section.

1. MegaLink Custom Service is a special access service using DS3 technology to provide dedicated high capacity transport between customer designated premises^{/1/}, either directly or through a Company hub where bridging or multiplexing, is performed. The DS3 signal provides for the transmission of nominal 44.736 Mbps isochronous serial data. MegaLink Custom Services are provided (1) between two customer designated premises, or (2) between a customer designated premises and a Company hub central office.

Technical specifications for MegaLink Custom Services may be found in the following Technical Reference Publications:

Technical Reference PUB 76652
Technical Reference TR-INS-000342

It is the customer's responsibility to arrange for the network channel terminating equipment associated with the high capacity channel at the customer's premises.

2. MegaLink Custom Services are offered to qualified customers, as found in paragraph A.1.b, only via ICB arrangements.
3. Recurring and nonrecurring monthly charges USOC for MegaLink Custom Services is 1ZZHZ.
4. Contract terms for MegaLink Custom are limited to 36, and 60-month^{/2/} options; termination provisions will apply

/1/ Company Centrex CO-like switches and Company Answering Service Concentrators are considered to be customer premises for purposes of administering regulations and rates contained in this section.

/2/ As of October 1, 2013, Contract terms greater than 36 months are no longer available for new or renewing subscribers.

/3/ Material formerly appeared in Part 15, Section 5, Sheet 89.

/3/

PRIVATE NETWORK SERVICES (cont'd)

/1/

B. Service and Rates (cont'd)

2. Description of Services (cont'd)

c. Network Reconfiguration Service (NRS)

The rates contained in this Section for Private Network Services are available only to qualified customers of record as of November 3, 2014. Existing, qualified customers may continue their service at the location at which it was being provided on the aforementioned date through the expiration of their current contract term or the specified contract renewal term, whichever is later, or termination if it should occur prior to either the expiration of the contract or contract renewal term. Upon the expiration of the contract or contract renewal term, no rates provided pursuant to this Section will apply to the service, and the customer will have the option to either discontinue the service or continue using the service at applicable rates, terms and conditions posted in the current Guidebook. In the event that the service is terminated, discontinued or disconnected prior to the expiration of the contract or contract renewal term for any reason, the service will not be reestablished at rates, terms and conditions posted in this Section.

1. General

Network Reconfiguration Service (NRS) permits customers to access a database maintained by the Company to reconfigure their dedicated Private Network Services. Customers access the database with a customer-provided terminal on their premises and can perform the reconfigurations without going through normal service order procedures.

2. Provision of Service

NRS is available only at certain Company-designated hub locations where digital cross-connect systems (DCS) are located. NRS hub designations are found in the National Exchange Carrier Association, Inc. Wire Center Information Tariff (NECA Tariff).

NRS uses a central office DCS for the remote reconfiguration of dedicated service channels. The cross-connect devices currently used by the Company are DCSs which interface only with a DS1 (1.544 Mbps) signal, and cross-connect internally at the DS0 (64 kbps) signal level. Customers can reconfigure their networks from their premises or may request the Company to perform the reconfigurations.

Customers access NRS with a customer-provided terminal on their premises using a dedicated line, available through Part 15, Section 2 or MegaLink Digital Service found in Part 15, Section 3, or on a dial-up basis with a local exchange line and seven digit telephone number.

Services that terminate in NRS are restricted to certain analog services available in Part 15, Section 2, *MegaLink Digital Service* and *MegaLink III – Wideband Digital Service/1.544 Mbps* services available from Part 15, Section 3, *Dataphone Digital Service* available from Part 15, Section 5, and Private Network Services available from this offering. Services which use the public switched network in any manner, e.g., Foreign Exchange, Foreign Serving Office, MicroLink I or local exchange service may not be terminated in a channel port of the NRS service.

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 90.

PRIVATE NETWORK SERVICES (cont'd)

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B. Service and Rates (cont'd)

2. Description of Services (cont'd)

c. Network Reconfiguration Service (NRS) (cont'd)

3. Options and Features

Two reconfiguration options are available to NRS customers:

- On-demand
- Reservation

The on-demand option will make immediate changes to the network, while the reservation option will be executed at a specified time designated by the customer. Both types of reconfigurations are available whether the customer performs the reconfigurations or requests the Company to perform them.

NRS provides the following features:

Routing

Allows customers to reroute dedicated circuits to different locations at DS0 or DS1 bandwidth.

Renaming

Allows customers to rename their network locations, circuits, and facilities.

Special Day Definition

Gives customers the capability to specify circuit reconfiguration on special dates, e.g., payday, holidays.

Resource Verification

Allows customers to verify the resource availability for the reservation period in their reconfiguration request prior to the system's confirmation or denial of the request.

Transaction Log

Provides customers a data base log that contains every transaction involving reconfigurations.

Multi-level Security

Eliminates the outside entry into a customer's circuit network arrangement inventory.

Compatibility Table

Permits customers to view the allowable private line, digital link and Dataphone Digital combinations that can be used within their NRS.

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 91.

PRIVATE NETWORK SERVICES (cont'd)

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B. Service and Rates (cont'd)

2. Description of Services (cont'd)

c. Network Reconfiguration Service (NRS) (cont'd)

3. Options and Features (cont'd)

NRS provides the following features: (cont'd)

Path Priority

Gives customers the ability to arrange their circuit paths in order of priority when multiple routes exist.

Reservation Summary Screen

Allows customers to view the status of their reconfiguration reservations.

Simple Commands and Screens

Permits customers to use simple commands on screens with easy to use menus.

MACRO Command/Network Modeling

Gives customers the ability to initiate with one command, multiple two-point cross-connections. Customers can build separate network models, such as day time models, night time models, and disaster recovery models, and invoke their activation or change from one to the other.

Variable Bandwidth

Supports scheduled reconfigurations which allows for the interchange of an internodal facility as either a full DS1 or one or more subtending channels. This feature requires a DS1 internodal facility in the customer's network.

4. Technical Specifications

Services that are cross-connected by NRS must have identical technical characteristics to ensure compatibility and proper operation, e.g., data to data, voice to voice.

NRS specifications are delineated in Technical Reference TR-TSY-000366 which may be ordered from:

Bell Communications Research
Information Research Center
60 New England Avenue
Piscataway, NJ 08854-4196

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 92.

PRIVATE NETWORK SERVICES (cont'd)

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B. Service and Rates (cont'd)

2. Description of Services (cont'd)

c. Network Reconfiguration Service (NRS) (cont'd)

5. Rate Regulations

(a) NRS is offered to qualified customers, as found in paragraph A.1.b.

(b) This section describes the NRS rate elements. Rate applications specific to this service are also included.

(c) General

Four basic elements apply:

- Service establishment
- Database modification
- Port charge
- Reconfiguration charge

(d) Rate element description

(i) Service establishment

The service establishment charge applies per customer database setup. The customer database setup is a grid, built by the Company, that contains all the circuits the customer will be able to control and configure. Security, as well as circuit inventory, is built into the grid, permitting customer control of his or her circuits. Customer training is included.

(ii) Database modification

The database modification charge applies (per customer contact or request) each time the customer requests a subsequent modification of its database grid. A modification can be an addition or deletion of circuits terminating on the cross-connect system, or a rearrangement of the database grid, i.e., an outside move, the rearrangement of the customer's routing priority, a change in the amount of bandwidth (from channelized data to video application), or a change in application of a DS1 (from all data to all voice).

(iii) Port charge

A port charge applies per port termination on the cross-connect system. There are two types of charges:

- Channel port charge - channel ports apply for termination of all eligible services other than MegaLink III and MegaLink Custom services
- DS1 port charge - MegaLink III Service (1.544 Mbps) port termination
- DS3 port charge - MegaLink Custom Service (45 Mbps) port termination

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 93.

PRIVATE NETWORK SERVICES (cont'd)

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B. Service and Rates (cont'd)

2. Description of Services (cont'd)

c. Network Reconfiguration Service (NRS) (cont'd)

5. Rate Regulations (cont'd)

(d) Rate element description (cont'd)

(iv) Reconfiguration charge

A reconfiguration charge applies per cross-connect and disconnect successfully completed in a DCS per request.

There are two types of reconfiguration charges:

- For individual reservation or demand requests performed by the customer
- For individual reservation or demand requests performed by the Company at the customer's direction

(e) Application of Rates

- (i) When NRS is used with private line, Digital Link or Dataphone Digital Services, apply rate elements per circuit as set forth in the applicable guidebooks. For service between two NRS hub locations, mileage charges will be determined on an ICB-basis.
- (ii) Nonrecurring charges apply to an NRS port.
- (iii) One NRS port charge applies per circuit at the NRS hub. In addition, one port charge applies for each end of an interoffice or interexchange channel between two NRS hubs.

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 94.

PRIVATE NETWORK SERVICES (cont'd)

/2/

B. Service and Rates (cont'd)

2. Description of Services (cont'd)

c. Network Reconfiguration Service (NRS) (cont'd)

6. Rates and Charges^{/1/}

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(a) Service Establishment Charge /FN62D/ Per Database Setup	None	/1/
(b) Database Modification Charge /FN62C/ Per Request	None	/1/
(c) Port Charges Per Port Termination		
Channel Port /PT52X/	/1/	/1/
DS1 Port /PT62X/	/1/	/1/
DS3 Port /XXXX/	ICB	ICB
(d) Reconfiguration Charges Per cross connect and/or disconnect successfully completed per request		
Individual reservation or demand request performed by the customer; or each segment of a model request performed by customer or the Company	None	/1/
Individual reservation or demand request performed by the Company at the customer's request	None	/1/

/1/ Rates and charges are as found in Part 15, Section 3, *Network Reconfiguration Service*.

/2/ Material formerly appeared in Part 15, Section 5, Sheet 95.

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PRIVATE NETWORK SERVICES (cont'd)

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B. Service and Rates (cont'd)

2. Description of Services (cont'd)

d. Other Private Network Services

The rates contained in this Section for Private Network Services are available only to qualified customers of record as of November 3, 2014. Existing, qualified customers may continue their service at the location at which it was being provided on the aforementioned date through the expiration of their current contract term or the specified contract renewal term, whichever is later, or termination if it should occur prior to either the expiration of the contract or contract renewal term. Upon the expiration of the contract or contract renewal term, no rates provided pursuant to this Section will apply to the service, and the customer will have the option to either discontinue the service or continue using the service at applicable rates, terms and conditions posted in the current Guidebook. In the event that the service is terminated, discontinued or disconnected prior to the expiration of the contract or contract renewal term for any reason, the service will not be reestablished at rates, terms and conditions posted in this Section.

1. The description and pricing for customized or packaged network services (other private network services) will be provided pursuant to contract and will be developed on an individual case basis (ICB) according to the exclusive and unique needs of the customer.
2. "Other private network services" comprise broadband digital services of speeds up to 45 Mbps (or better) suitable for voice, data, or video use that are not otherwise available under this guidebook. Other private network services are available only to qualifying customers as described in paragraph A.1.b, and for interconnection among such customers within a local serving area.
3. The rates for other private network services will be established at 110% of the long run incremental costs of providing the services, including installation. Rates will be subject to change upon expiration of the contract term. Termination provisions will apply.
4. Special construction charges do not apply to other private network services.
5. Other private network services may not be shared or resold to other customers except that such services may be shared among qualified customers as described in paragraph A.1.b.

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/1/ Material formerly appeared in Part 15, Section 5, Sheet 96.