

**AT&T MISSOURI GUIDEBOOK**

PART 15 - Dedicated Communications Services  
SECTION 2 - Channel / Analog Private Line (APL) Services

1st Revised Sheet 1  
Replacing Original Sheet 1

**CHANNELS**

**Service Availability**

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

The following services are covered by this Service Availability paragraph: Special Signaling Service - Series 100, Sub-Voice Grade Service - Series 200, Voice Grade Service - Series 300 and 400, Local Area Data Service, Customer Operating Center Service, Served Direct Service, Signaling, and Channel Conditioning.

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**A. General**

1. In addition to the regulations set forth in the Regulations Section of this Guidebook applicable to Private Line Services, additional regulations are set forth throughout this Section.
2. Channels are classified by series and further classified within each series by types. The various series and types are described in terms of circuit characteristic and/or use.
3. The customer is responsible for the selection of the service, i.e., type of circuit signaling options, jacks and terminating interfaces required to meet his needs. The customer premises equipment, station apparatus and premises wiring must be compatible with the service provided by the Company. The Company has overall responsibility for the Private Line Service up to and including the Demarcation Point, including the selection of all local channels.
4. Exchange rates, rules and regulations apply for the exchange portion of the total service when Private Line Services are used in connection with Exchange Services or are connected to Exchange Services.
5. When the number of Private Line Services is such that cable service components are required, such cable service components may be provided specifically for the customer's use and not as a part of the Company's general distributing plant, at charges based upon cost in lieu of published charges, where to do so will result in lower charges to the customer.<sup>/1/</sup>

/2/

/1/ Obsolete to existing service installations at existing locations for existing customers. For existing United States Military establishments additional cable service components may be provided on a cost basis to meet the National Security and Emergency preparedness needs of the Military.

/2/ Material now appears on Sheet 1.1.

**CHANNELS (cont'd)**

**B. Description of Services**

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1. Special Signaling Service - Series 100

- a. These channels are suitable for use with Two-Point or Multi-Point Service within the same LATA subject to the number of point limitations indicated for each type and are provided for use with customer-provided power and signaling equipment and other special signaling services.

It is expressly declared that metallic interoffice service components for this type of service are in continually decreasing supply, and the Company is not obligated to continue to make such additional service components available.

Those local channels used to provide a transmission path to connect with customer premises equipment (CPE) at a premises are defined in terms of electrical interfaces. Interconnection protection criteria and regulations as described in Part 15, Section 1, Paragraph E shall apply.

The types of local channels offered for termination at a premises for termination in customer premises equipment and systems are as follows:

- 1. Type 101 - Transmission Characteristics in B.1.c., following.
- 2. Type 102 - Transmission Characteristics in B.1.c., following.

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/1/ Material formerly appeared on Sheet 1.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

1. Special Signaling Service - Series 100 (cont'd)

b. Type 101 service is furnished on an intraLATA intraexchange two- or three-point basis only.

Type 102 service is furnished on an intraLATA intraexchange multi-point (minimum of 4 points, maximum of 26 points) basis. Type 102 service is also provided on an intraLATA interexchange two-point or multi-point (maximum of 26 points) basis.

Service is restricted to no more than three serving offices, including the serving office of the central station all within the same LATA.

c. Transmission characteristics of Types 101 and 102 are as follows:

1. Type 101 service has a two-wire interface with two-wire service components suitable for use with direct current transmission (metallic continuity). Customers may order two, two-wire services to achieve four-wire service.

Transmission specifications and limitations are described in the Bell System Technical Reference on the transmission specification for Private Line metallic circuits which include the following:

Current applied by CPE - AC and DC components per conductor, not to exceed .150 ampere rms.

Magnitude of the peak of the voltage between any conductor and ground, not to exceed 70.7 volts except continuous DC voltage not to exceed 135 volts.

2. Type 102 service has a two-wire interface with two-wire service components suitable for low-speed, unidirectional series-operated signaling and may be implemented by either metallic channels or by other means at the Company's option. If provided by "other means,"

d. Rates – Intraexchange Series 100

	<u>Monthly Rate</u>	<u>Service Charge</u>
<b>Local Channel</b> , each per first termination on a premises		
Type 101 /1L3QY, 1LMCY/	\$26.50	\$140.00
Type 102 /1L3QY, 1LMCY/	26.50	204.00
<b>Interoffice Channel</b> , each V-H mile or fraction thereof, per channel		
Type 101 /1L3QS, 1LMCS/	2,099.00 (I)	None
Type 102 /1L3QS, 1LMCS/	2,099.00 (I)	None
<b>Interoffice Channel Terminal</b> , per terminal (two required per interoffice channel)		
Type 101 /OXNTL, OXNSL/	10.58	None
Type 102 /OXNTL, OXNSL/	13.20	None

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

- 1. Special Signaling Service - Series 100 (cont'd)
  - d. Rates – Intraexchange Series 100 (cont'd)

	<u>Monthly Rate</u>	<u>Service Charge</u>
<b>Each additional point of termination of a local channel in different building, same premises, per 1/10 mile<sup>/2,4/</sup></b>		
Type 101 First 1/10 mile /1L3QK, 1LMCK/	\$4.50	\$59.00 <sup>/3/</sup>
Additional 1/10 mile	0.59	
Type 102 First 1/10 mile /1L3QK, 1LMCK/	4.50	59.00 <sup>/3/</sup>
Additional 1/10 mile	0.59	
<b>Each additional point of termination of a local channel in same building<sup>/2,4/</sup></b>		
Type 101 /1L3QA, 1LMCA/	2.25	59.00 <sup>/3/</sup>
Type 102 /1L3QA, 1LMCA/	2.25	59.00 <sup>/3/</sup>
<b>Different buildings, same premises channel, per 1/10 mile<sup>/1,2,4/</sup></b>		
Type 101 First 1/10 mile /1LMCE/	6.80	118.00 <sup>/3/</sup>
Additional 1/10 mile	0.59	
<b>Same buildings channel<sup>/2,4/</sup></b>		
Type 101 /1L3QB, 1LMCB/	4.35	118.00 <sup>/3/</sup>
<b>Each additional point of termination in same building for 'Different buildings, same premises channel' and 'Same buildings channels'<sup>/2,4,5/</sup></b>		
Type 101 /1L3QC, 1LMCC/	2.25	59.00 <sup>/3/</sup>

- /1/ When associated with different building, same premises key equipment, the first 5/10-mile business or 1/10-mile resident (USOC: 1L3Q1) is no charge. Charges for additional 1/10-miles are to be applied with first 1/10-mile increment charge applicable. Service Charges apply for first 1/10-mile residence and 5/10-mile business.
- /2/ Obsolete to existing service installations at existing locations for existing customers.
- /3/ Charge applies per point of termination inside moved.
- /4/ The monthly rate shown does not include maintenance and/or repair.
- /5/ Limited to one additional point of termination per same premises channel.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

1. Special Signaling Service - Series 100 (cont'd)

e. Rates – IntraLATA Interexchange Type 102

	<u>Monthly Rate</u>	<u>Service Charge</u>
<b>Local Channel</b> , each, per first termination on a premises Type 102 /1L3QY, 1LMCY/	\$26.50	\$204.00
<b>Interoffice Channel</b> , each V-H mile or fraction thereof Type 102 /1L3QS, 1LMCS/	2,099.00 (I)	NA
<b>Interoffice Channel Terminal</b> , per terminal (two required per interoffice channel) Type 102 /OXNTS, OXNSS/	12.30	None
	Monthly Rate 0 to 250 miles <u>each mile</u>	Each additional <u>mile over 250</u>
<b>Interexchange Channel</b> , per V-H mile or fraction thereof Type 102 /1L3Q4, 1LMC4/	\$4.64	\$1.00
<b>Interexchange Channel Terminal</b> , each (two required per interexchange channel) Type 102 /OXN3S, OXN2S/	34.55	None
	<u>Monthly Rate</u>	<u>Service Charge</u>
<b>Each additional point of termination of a local channel, different building, same premises</b> , per 1/10 mile <sup>/1,3/</sup> Type 102 First 1/10 mile /1LMCK/ Additional 1/10 mile	\$4.30 0.59	\$81.00 <sup>/2/</sup>
<b>Each additional point of termination of a local channel in the same building</b> <sup>/1,3/</sup> Type 102 /1LMCA/	2.63	81.00 <sup>/2/</sup>

/1/ Obsolete to existing service installations at existing locations for existing customers.

/2/ Charge applies per point of termination inside moved.

/3/ The monthly rate shown does not include maintenance and/or repair.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

2. Sub-Voice Grade Service - Series 200

- a. Sub-Voice Grade service provides, and is designed for transmission of low speed data at rates up to 75 and up to 150 baud within certain technical specifications. These channels are furnished for half-duplex and duplex operation. The service is not suitable for the transmission of alternating current tones.
- b. The types of local channels and the transmission characteristics offered for termination at a premises for termination in customer premises equipment and systems are as follows:
  - 1. Type 250 - An interface engineered for binary signals at rates up to 75 baud,  $20 \pm 1$  or  $62.5 \pm 2.5$  milliamperes neutral signals<sup>/1/</sup>. The terminal equipment shall deliver no more than 8 percent telegraph distortion and shall be capable of processing received data signals with up to 35 percent telegraph distortion.
  - 2. Type 251 - E1A standard RS232C type interface engineered for binary signals at rates up to 150 baud and the terminal equipment shall deliver no more than 5 percent telegraph distortion and shall be capable of processing received data signals with up to 40 percent telegraph distortion.
  - 3. Type 250 and Type 251 channels are furnished for teletypewriter, data, supervisory control and miscellaneous signaling use.
- c. Parameters and Specifications for Sub-Voice Grade Local Channels used with Customer Premises Equipment (CPE), as specified in B.2.b.

BASIC PARAMETERS	SPECIFICATION OR LIMIT
Channel Signals	Local Channels used with CPE. Note that the specifications of channel signals refer to the requirement of the total service offering and not the individual local channel.
Channel Distortion	Local Channels used with CPE. Note that the specifications for channel distortion refer to the requirement of the total service offering and not the individual local channel.
Power Requirement	For up to 75 Baud Type - Where the provides transmission equipment at the interface. Customer must provide a source of continuous 117 volt, 60 Hz ac power by means of a nonswitched outlet. For up to 150 Baud - Customer must in all cases provide a source of continuous 117 volt, 60 Hz ac power, nonswitched outlet.

The Company will in all cases supply all voltage and current adjustments to the local channel.

/1/ The Company has the option of providing 20 of 62.5 milliamperes and will notify the customer of the current level to be supplies. The Company will supply the line voltage and provide for the current adjustment. The maximum open circuit voltage across the send data leads at the interface will not exceed 270 volts.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

2. Sub-Voice Grade Service - Series 200 (cont'd)

d. Rates – Intraexchange Series 200

		<i>Half Duplex</i> Monthly <u>Rate</u>		<i>Duplex</i> Monthly <u>Rate</u>	<u>Service</u> <u>Charge</u>
<b>Local Channel</b> , each, per first termination on a premises					
Type 250	/1LYDY/ /1L6BY/ /1L3AY/ /1LMFY/	\$37.00	/1LYKY/ /1L6DY/ /1L3CY/ /1LMDY/	\$50.00	\$247.00
Type 251	/1LMFY/	13,552.00 (I)	/1LYKY/ /1LMDY/	60.00	247.00
<b>Interoffice Channel</b> , each V-H mile, or fraction thereof, per channel					
Type 250	/1LYDS/ /1L3AS/ /1LMFS/	3.28	/1LYKS/ /1L3CS/ /1LMDS/	6.75	None
Type 251	/1LYDS/ /1LMFS/	3.28	/1LYKS/ /1LMDS/	7.25	None
<b>Interoffice Channel Terminal</b> , per terminal (two required for each interoffice channel)					
Type 250	/01N5L/	9.05	/01N6L/	9.05	None
Type 251	/01N5L/	9.05	/01N6L/	9.05	None
<b>Each additional point of termination of a local channel in same building</b> <sup>/1,2,4/</sup>					
Type 250	/W1W/	9.25			\$102.00 <sup>/3/</sup>
<b>Different buildings, same premises</b> , per 1/10 mile <sup>/2,4/</sup>					
Type 250					
First 1/10 mile	/1LYDE/ /1L6BE/ /1LMFE/	21.45	/1L6DE/ /1LMDE/	32.10	204.00 <sup>/3/</sup>
Additional 1/10 mile		0.65		1.24	
Type 251					
First 1/10 mile	/1L6BE/ /1L3AE/ /1LMFE/	28.55	/1L6DE/ /1LMDE/	39.30	204.00 <sup>/3/</sup>
Additional 1/10 mile		0.65		1.24	

See footnotes on following sheet(s)

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

2. Sub-Voice Grade Service - Series 200 (cont'd)

d. Rates – Intraexchange Series 200 (cont'd)

		<i>Half Duplex</i> Monthly <u>Rate</u>		<i>Duplex</i> Monthly <u>Rate</u>	<u>Service</u> <u>Charge</u>
<b>Same Building Channel</b> <sup>/2,4/</sup>					
Type 250	/1LYDB/	\$18.60		\$26.35	\$204.00 <sup>/3/</sup>
	/1L6BB/				
	/1LMFB/		/1LMDB/		
Type 251	/1LYDB/	25.70	/1LYKB/	33.60	204.00 <sup>/3/</sup>
	/1L6DB/				

**Each additional point of termination in same building for 'Different buildings, same premises channel' or 'Same Building Channel'**<sup>/1,2,4/</sup>

Type 250			/WAP/	13.25	102.00 <sup>/3/</sup>
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e. Rates – IntraLATA Interexchange Series 200

**Local Channel**, each, per first termination on a premises

Type 250	/1LMFY/	33.40	/1LMDY/	44.30	247.00
Type 251	/1LYDY/	47.10	/1LYKY/	64.40	247.00

**Interoffice Channel**, each V-H mile, or fraction thereof, per channel

Type 250	/1LMFS/	4.09	/1LMDS/	7.25	None
Type 251	/1LMFS/	4.09	/1LMDS/	7.25	None

**Interoffice Channel Terminal**, per terminal (two required for each interoffice channel)

Type 250	/01N5S/	7.55	/01N6S/	7.55	None
Type 251	/01N5S/	4.03	/01N6S/	4.03	None



**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

2. Sub-Voice Grade Service - Series 200 (cont'd)

e. Rates – IntraLATA Interexchange Series 200 (cont'd)

		<i>Half Duplex</i>		<i>Duplex</i>	
		Monthly		Monthly	
		<u>Rate</u>		<u>Rate</u>	
		0 to 250 miles	Each additional	0 to 250 miles	Each additional
		Each mile	mile over 250	Each mile	mile over 250
<b>Interexchange Channel,</b>					
each V-H mile or fraction thereof					
Type 250	/1L3C4/ /1L6D4/ /1LMD4/	\$3.95	\$2.26	/1LYD4/	\$3.66
Type 251	/1LYK4/	3.66	2.26	/1LYD4/ /1L6A4/	3.66
		<i>Half Duplex</i>		<i>Duplex</i>	
		Monthly		Monthly	
		<u>Rate</u>		<u>Rate</u>	
<b>Interexchange Channel Terminal,</b>					
per terminal (two required per interexchange channel)					
Type 250	/01N2S/	\$44.00		/01N3S/	\$45.00
Type 251	/01N2S/	41.00		/01N3S/	41.00
		<i>Half Duplex</i>			
		Monthly	Service		
		<u>Rate</u>	<u>Charge</u>		
<b>Each additional point of termination of a local channel, different building, same premises,</b>					
per 1/10 mile <sup>1,2,4/</sup>					
Type 250					
First 1/10 mile	/1LMFK/	\$19.50	\$140.00 <sup>3/</sup>		
Additional 1/10 mile		0.65			

Footnotes

- /1/ Maximum of three terminations on the same premises for Type 250 and no additional termination of Type 251.
- /2/ Obsolete to existing service installations at existing locations for existing customers.
- /3/ Charge applies per point of termination inside moved.
- /4/ The monthly rate shown does not include maintenance and/or repair.

**CHANNELS (cont'd)****B. Description of Services (cont'd)**3. Voice Grade Service - Series 300<sup>/1/</sup> and 400

- a. Series 300 local channels for Voice Grade service are furnished for half duplex (voice or data use) and duplex (data use) operation for oral communications and data communications which operate within certain technical specifications. Unless expressly provided for elsewhere, these are the only channels provided for voice grade transmission. The various types of local channels which are offered for termination are provided on a customer premises as follows:

1. Type 311 - Furnished for two-point or multipoint voice transmission, Private Line voice or intercommunication line or supervisory control use. Signaling options required to arrange Type 311 for suitable signaling are provided in this Section. Limited to five (5) local channels on multipoint service where two-way communication is required.
2. Type 312 - Furnished for off-premises main and extension stations associated with premises PBX (or similar) switching systems. Technical specifications are a two-wire interface with effective two-wire service components engineered for 1000Hz net loss of VLN +4dB.
3. Type 314 - Furnished for tie line use between two premises PBX (or similar) switching systems (314A).
4. Type 320 - Furnished for Type 311, multi-point voice service where more than five (5) local channels are involved and two-way communication is required.

Signaling options required to arrange series 300 Channels for suitable signaling are available at charges specified in the Signaling paragraph following (found later in this Section). The application of signaling options currently provided to arrange Series 300 on premises, same building and additional point of termination services has been obsoleted to existing installations at existing locations for existing customers. Signaling charges do not apply to different buildings same premises PBX (or similar) stations.

Bridging charges, per channel bridged, apply when three or more voice grade channels connect at the same location. Bridging charges do not apply to Type 312. (C)

- b. Series 400 local channels are furnished for use as the customer elects and operate within certain technical specifications. The various types and the transmission characteristics of local channels which are offered for termination at a premises for connection to only customer premises equipment and systems (except as provided in Paragraph A.5) are as set forth following:

1. Type 414B - Furnished for tie line use, between a customer premises PBX (or similar) switching system and a customer's Centrex arrangement when the switching system is located in a Company central office. E&M signaling is included in the local channel
2. Type 414C - Furnished for tie line use, between two customer Centrex arrangements when both switching systems are located in a Company central office.

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

**CHANNELS (cont'd)****B. Description of Services (cont'd)**3. Voice Grade Service - Series 300<sup>/1/</sup> and 400 (cont'd)

## b. (cont'd)

3. Type 415 - Furnished for voice transmission in the same serving office as the primary service, off-premises extension (non-PBX) and off-premises Centrex (with switching equipment located on Company premises) station and/or extension station use. Also for telephone answering service use. In addition, a Type 415 meets the following technical specifications:

A two-wire interface with effective two-wire facilities engineered for 1000 Hz net loss of 6 dB, loop signaling is included in the local channel.

4. Type 417 - Furnished for voice transmission, Telephone Answering Services. Furnished for voice transmission for Telephone Answering Service for service between the concentrator located in the Company central office and the customer premises identifier (417A). Furnished for voice transmission used with AUTOTAS Telephone Answering Service. For service between the Electronic Concentrator and the Traffic Director (417B).
5. Type 420 - A four-wire interface with four-wire service components engineered for 1000 Hz net loss of 16dB. Normally suitable for use as a full duplex data channel.<sup>/2/</sup>
6. Type 422 - A two-wire interface with effective two-wire service components engineered for a 1000 Hz net loss of 16dB. Normally suitable for use as a half duplex data channel.<sup>/2/</sup>
7. Type 423 - A two-wire interface with effective two-wire service components engineered for a 1000 Hz net loss of up to 10dB for two-point service and up to 20dB for multipoint service. Furnished for two-point or multipoint voice transmission, Private Line voice or intercommunication line or supervisory control use. Limited to five (5) local channels on multipoint service where two-way communication is required.<sup>/2/</sup>
8. Type 424 - A two-wire or four-wire interface with effective four-wire service components engineered to VLN design specifications for tie line use. Normally suitable for use as a tie line between two premises PBX (or similar) switching systems.
9. Type 425 - A four-wire interface with four-wire service components engineered for a 1000 Hz net loss of 16dB. Normally suitable for use as a voice channel.
10. Type 428 - A two-wire interface with effective two-wire service components engineered for a 1000 Hz net loss of VLN +4dB. Normally suitable for use to provide an off-premises main or extension station of a premises PBX (or similar) switching system.

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

/2/ Type 420 through Type 423 local channels are not suitable for, nor can they be used for, switching and/or tandem operations to the switched network or other private line services.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

- 3. Voice Grade Service - Series 300<sup>/1/</sup> and 400 (cont'd)
  - b. (cont'd)

- 11. Type 432 - Furnished for half duplex data transmission for an Automatic Identified Outward Dialing (AIOD) data channel. For use between a premises PBX (or similar) switching system and a serving office.
- 12. Type 435 - A two-wire interface with four-wire service components engineered for a 1000 Hz net loss of 16dB. Normally suitable for use as a multipoint voice channel where more than five (5) local channels are involved and two-way communication is required.
- 13. Type 437 - Furnished for use with Centrex (with switching equipment located on Company premises) data link consoles. For service between the premises control cabinet and the serving office.

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Signaling options required to arrange Series 400 channels for suitable signaling are available at charges specified in the Signaling paragraph (found later in this Section). The application of signaling options currently provided to arrange Series 400 on premises, same building and additional point of termination services has been obsoleted to existing installations at existing locations for existing customers.

Bridging charges, per channel bridged, apply when three or more voice grade channels are connected at the same location.

Customers must insure that neither direct transmitted signal nor reflected signal energy is allowed to violate interconnection protection criteria and regulations as set forth in Paragraph A.

Specifications of net loss (or gain) refer to the requirement of the total channel offering, not the individual local channel. Gains or losses present in CPE have not been included.

/1/ Obsolete – applicable to existing service installations at existing locations for existing customers.

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**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

3. Voice Grade Service - Series 300<sup>/1/</sup> and 400 (cont'd)

c. Parameters and Specifications

Parameters and specifications for two-point service used with Customer Premises Equipment (CPE) and station equipment are as follows: Speech application specifications and limits apply to all local channels except Types 420 and 422. Data application specifications and limits apply only to Types 420 and 422.

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BASIC PARAMETERS	SPECIFICATION OR LIMIT
Net Loss Local	Channels used with customer-provided station equipment - Limit as specified in Standard Bell System Design Practices and/or Technical References The specifications of net loss or gain refer to the requirements of the total channel service offering, not the individual local or interoffice channel. Losses or gains present in CPE have not been included.
DC Resistance	Local Channels used with customer-provided station equipment - Limit as specified in Standard Bell System Design Practices and/or Technical References does not imply or guarantee end-to-end DC continuity.
Frequency Error	± 5 Hz
Frequency Response	300-3000 Hz, -3dB to +12dB 500-2500 Hz, -2dB to + 8dB ("+ " means more loss and "- " means less loss)
Envelope Delay Distortion	For Speech Application, not controlled.  For Data Application, less than 1000 microseconds, 1000-2400 Hz; less than 1750 microseconds, 800-2600 Hz
-13 dBm0 1000 Hz Test Signal to C-Notched Noise Ratio	For Speech Application, 20 db For Data Application, 24 db

/1/ Obsolete – applicable to existing service installations at existing locations for existing customers.

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**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

3. Voice Grade Service - Series 300<sup>/1/</sup> and 400 (cont'd)

c. Parameters and Specifications (cont'd)

BASIC PARAMETERS	SPECIFICATION OR LIMIT (cont'd)
Impulse Noise	For Speech Application, 90 counts in 15 minutes at a threshold of 1 db below a -13 dBm0 rms 1000 Hz Test Signal
	For Data Application, 15 counts in 15 minutes at a threshold of 6 db below a -13 dBm0 rms 1000 Hz Test Signal
Phase Jitter	For Speech Application, 18 degrees peak to peak For Data Application, 10 degrees peak to peak
Non-Linear Distortion Signal to 2nd Order Distortion	For Speech Application, 20 db For Data Application, 25 db
Signal to 3rd Order Distortion	For Speech Application, 25 db For Data Application, 30 db

d. MultiPoint

The Company will provide bridging equipment in serving offices and primary serving offices to provide multipoint service. Bridging charges apply per channel (interoffice channel, local channel and inter-exchange channel) in offices where three or more channels are bridged. Bridging charges do not apply to Foreign Exchange, Foreign Serving Office and Types 312<sup>/1/</sup>, 415, 417, 428, 442 and 443. See the following paragraphs for applicable Bridging charges.

Standard bridging equipment for two-way communication between all points will be provided unless the customer specifies another fixed bridging arrangement.

The transmission parameters specified in B.3.c, preceding, are not applicable to multipoint service consisting of more than five points where local channels with two-wire service components and two-way communication are involved or more than 20 points otherwise.

/1/ Obsolete – applicable to existing service installations at existing locations for existing customers.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

3. Voice Grade Service - Series 300<sup>/1/</sup> and 400 (cont'd)

e. Rates – Intraexchange Series 300 and 400

	<u>Monthly Rate</u>	<u>Service Charge</u>
<b>Local Channel</b> , each, per first termination on a premises		
Type 311 /1LLUY, 1LPAY, 1L1OY, 1L3AY/	\$13,552.00 (I)	\$161.00
Type 312 /1LLJY/	39.95	161.00
Type 314A /1LTAY/ <sup>/2/</sup>	64.00	194.00
Type 414B /1LTBY/ <sup>/2/</sup>	80.15	419.00
Type 414C /1LTCY/	12.95	247.00
Type 415 /1LLRY, 1LLHY/	39.95	237.00
Type 417A /1LJKY/	48.40	280.00
Type 417B /1LJJY/	37.10	285.00
Type 320 /1LPWY, 1L1MY/	55.75	194.00
Type 432 /1L6QY/	52.50	376.00
Type 437 /1L6RY/	44.75	172.00
Type 442 /1L6EY/	42.55	344.00
Type 443 /1L6FY/	58.20	398.00
Type 420 /1LMDY, 1L6CY/ <sup>/2/</sup>	27,676.00 (I)	290.00
Type 422 /1LMFY, 1L6AY/	27,676.00 (I)	301.00
Type 423 /1LMGY/ <sup>/2/</sup>	12,175.00 (I)	210.00
Type 424 /1LMHY/ <sup>/2/</sup>	62.35	333.00
Type 425 /1LMJY/ <sup>/2/</sup>	20,086.00 (I)	301.00
Type 428 /1LMKY/ <sup>/2/</sup>	13,552.00 (I)	210.00
Type 435 /1LMMY/ <sup>/2/</sup>	20,086.00 (I)	301.00
<b>Interoffice Channel</b> , each V-H mile or fraction thereof, per channel		
/1LJKS, 1LLBS, 1LPJS, 1LTBS, 1L1OS, 1L3AS, 1L6BS, 1L6DS, 1LMFS/	1,975.00 (I)	NA

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

/2/ When service terminates in a SmartTrunk Interface or in a channel port of an Access Advantage Plus Service, a Local Channel charge will not apply for that location. All other appropriate circuit charges specified in this Section will apply to the remainder of the circuit.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

3. Voice Grade Service - Series 300<sup>/1/</sup> and 400 (cont'd)

e. Rates – Intraexchange Series 300 and 400 (cont'd)

	<u>Monthly Rate</u>	<u>Service Charge</u>
<b>Interoffice Channel Terminal</b> , per termination (two required per interoffice channel)		
Type 311 /PMN11/	\$10.60	NA
Type 312 /PMN12/	13.20	NA
Type 314A /PMN4A/	10.60	NA
Type 414B /PMN4B/	8.15	NA
Type 414C /PMN4C/	20.30	NA
Type 417A /PMN17/	15.75	NA
Type 432 /PMN22/	25.50	NA
Type 442 /PMN42/	20.45	NA
Type 443 /PMN43/	8.60	NA
Type 420 /PMNCL, PMN3A/	13.60	NA
Type 422 /PMNEL, PMN3B/	13.60	NA
Type 423 /PMNFL/	11.50	NA
Type 424 /PMNGL/	11.55	NA
Type 425 /PMNHL/	10.45	NA
Type 428 /PMNLL/	17.05	NA
Type 435 /PMN5L/	10.80	NA

	Monthly Rate		<u>Service Charge</u>
	<u>First 1/10 mile</u>	<u>Each add'l 1/10 mile</u>	
<b>Each additional point of termination of a local channel in different building, same premises</b> <sup>/1,2,4/</sup>			
Type 311 /LPJK, ILLUK/	\$4.73	\$0.65	64.50 <sup>/3/</sup>
Type 320 /1LPWK/	9.50	1.24	96.50 <sup>/3/</sup>
Type 420 /1LMDK/	19.50	1.24	129.00 <sup>/3/</sup>
Type 422 /1LMFK/	8.30	0.65	129.00 <sup>/3/</sup>
Type 423 /1LMGK/	4.73	0.65	64.50 <sup>/3/</sup>
Type 425 /1LMJK/	9.50	1.24	64.50 <sup>/3/</sup>

/1/ Obsolete - applicable to existing service installations at existing locations for existing customers.  
 /2/ Additional points of termination do not apply for Types 314A, 414B, 442, 424 and 428.  
 /3/ Charge applies per point of termination inside moved.  
 /4/ The monthly rate shown does not include maintenance and/or repair.



**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

- 3. Voice Grade Service - Series 300<sup>/4/</sup> and 400 (cont'd)
  - e. Rates – Intraexchange Series 300 and 400 (cont'd)

	<u>Monthly Rate</u>	<u>Service Charge</u>
<b>Each additional point of termination of a local channel in the same building<sup>/1,4/</sup></b>		
Type 311 /2SE, M8X/	\$2.49	\$64.50 <sup>/5/</sup>
Type 320 /M8X23/	4.46	96.50 <sup>/5/</sup>
Type 422 /M8XF3/	5.80	129.00 <sup>/5/</sup>
Type 423 /M8XG3/	2.49	64.50 <sup>/5/</sup>
Type 425 /MUXJ3/	4.46	64.50 <sup>/5/</sup>
	Monthly Rate	
	<u>First 1/10 mile</u>	<u>Each add'l 1/10 mile</u>
<b>Different buildings, same premises channels, per 1/10 mile<sup>/4/</sup></b>		
Type 311 /1LLUE, 1LPJE/	\$7.05 <sup>/3/</sup>	\$0.65
Type 420 /1LMDE, 1L6DE/	33.00	1.24
Type 422 /1LMFE, 1L6BE/	14.15	0.65
Type 423 /1LMGE/	7.05	0.65
Type 425 /1LMJE/	14.00	1.24
Residence Extension Lines /1LLJE/ <sup>/2/</sup>	None	<sup>/6/</sup>
Business Extension Lines <sup>/2/</sup>		
Additional 5/10 mile /1LLBC/	4.84	

/1/ Additional points of termination do not apply for Types 314A, 414B, 442, 424 and 428.  
 /2/ In addition to the Service Charge, Service Connection Charges as found in Part 3, Section 1 apply.  
 /3/ When associated with different building, same premises key equipment, the first 5/10-mile business or 1/10-mile residence /USOC: 1LLU1/ is no charge. Charges for additional 1/10 miles are to be applied with the 1/10-mile increment charge applicable. Service Charges apply to the first 1/10-mile residence or first 5/10-mile business.  
 /4/ Obsolete to existing service installations at existing locations for existing customers.  
 /5/ Charge applies per point of termination inside moved.  
 /6/ Charges applicable to the inside move of Extension Lines are equivalent to nonrecurring charges as described in the Service Connection Charges Section in Part 3, Section 1.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

- 3. Voice Grade Service - Series 300<sup>/3/</sup> and 400 (cont'd)
  - e. Rates – Intraexchange Series 300 and 400 (cont'd)

	<u>Monthly Rate</u>	<u>Service Charge</u>
<b>Same building channels</b> <sup>/3,5/</sup>		
Type 311 /29H, 1L3AB/	\$4.80	\$129.00 <sup>/4/</sup>
Type 314A /1LTBB/	26.50	183.00 <sup>/4/</sup>
Type 420 /1LMDB, 1L6DB/	27.30	247.00 <sup>/4/</sup>
Type 422 /1LMFB, 1L6BB/	11.70	247.00 <sup>/4/</sup>
Type 423 /1LMMB/	4.80	129.00 <sup>/4/</sup>
Type 425 /1LMJB/	9.10	129.00 <sup>/4/</sup>
 <b>Each additional point of termination in the same building for 'Different buildings, same premises channels' and 'Same building channels', preceding</b> <sup>/1,2,3,5/</sup>		
Type 311 /EZ6, 4SE/	2.49	64.50 <sup>/4/</sup>
Type 420 /DUXD3, DUX/	13.55	129.00 <sup>/4/</sup>
Type 423 /J5YG3/	2.49	64.50 <sup>/4/</sup>
Type 425 /DUXJ3/	4.46	64.50 <sup>/4/</sup>
 <b>Bridging Charges (multi-point service), per channel bridged</b>		
/BQ7/	11.20	None
 <b>Nonstandard Bridges</b> <sup>/3/</sup>		
<b>Access Lines</b>		
From alarm company central station to bridge shall be voice grade local channel, interoffice and/or intraLATA interexchange channel, and channel terminals as follows: /22A/ <sup>/7/</sup>		
For 10-Port Bridge	Equivalent to Type 423	
For 131-Port Bridge	Equivalent to Type 420	

/1/ Limited to a maximum of three additional points of termination per same premises channels.  
 /2/ Additional points of termination do not apply for Types 314A and 424.  
 /3/ Obsolete - applicable to existing service installations at existing locations for existing customers.  
 /4/ Charge applies per point of termination inside moved.  
 /5/ The monthly rate shown does not include maintenance and/or repair.  
 /6/ The monthly rates for Interexchange Nonstandard Bridges are the same as those shown here for /BMC88/.  
 /7/ The monthly rates for Interexchange Access Lines are the same as those shown in B.3.f.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

3. Voice Grade Service - Series 300<sup>/1/</sup> and 400 (cont'd)

e. Rates – Intraexchange Series 300 and 400 (cont'd)

	<u>Monthly Rate</u>	<u>Service Charge</u>
<b>Nonstandard Bridges<sup>/1/</sup> (cont'd)</b>		
<b>Access Lines (cont'd)</b>		
From bridge to alarm company patron premises, the alarm company patrons are limited to same serving office as the bridge		
For 10-Port Bridge	Equivalent to Type 101	
For 131-Port Bridge	Equivalent to Type 101	

f. Rates – IntraLATA Interexchange Series 300 and 400

**Local Channel**, each, per first termination on a premises

Type 311 /1LPAY/	\$42.35	\$301.00
Type 312 /1LPRY/	65.85	290.00
Type 314A /1LTAY/ <sup>/2/</sup>	89.50	365.00
Type 414B /1LTBY/ <sup>/2/</sup>	95.00	419.00
Type 414C /1LTCY/	60.00	258.00
Type 415 /1LLAY/	41.80	NA
Type 417A /1LJKY/	95.00	285.00
Type 417B /1LJJY/	95.00	290.00
Type 320 /1LPWY/	71.25	290.00
Type 432 /1L6QY/	58.00	355.00
Type 442 /1L6EY/	38.00	349.00
Type 443 /1L6FY/	70.25	403.00
Type 420 /1LMDY, 1L6CY/ <sup>/2/</sup>	26,688.00 (I)	296.00
Type 422 /1LMFY, 1L6AY/ <sup>/2/</sup>	26,688.00 (I)	301.00
Type 423 /1LMGY/ <sup>/2/</sup>	12,696.00 (I)	215.00
Type 424 /1LMHY/ <sup>/2/</sup>	66.25	339.00
Type 425 /1LMJY/ <sup>/2/</sup>	18,098.00 (I)	301.00
Type 428 /1LMKY/ <sup>/2/</sup>	18,175.00 (I)	215.00
Type 435 /1LMMY/ <sup>/2/</sup>	71.25	301.00

**Interoffice Channel**, each V-H mile or fraction thereof, per channel

/1LPJS, 1LTBS, 1L1OS, 1L3AS, 1L6BS, 1L6DS, 1LMFS/	1,975.00 (I)	NA
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**FX Service**

/1LHBS/	8.70	NA
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/1/ Obsolete - applicable to existing service installations at existing locations for existing customers.

/2/ When service terminates in a SmartTrunk Interface or in a channel port of an Access Advantage Plus Service, a Local Channel charge will not apply for that location. All other appropriate circuit charges specified in this Section will apply to the remainder of the circuit.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

3. Voice Grade Service - Series 300<sup>/1/</sup> and 400 (cont'd)

f. Rates – IntraLATA Interexchange Series 300 and 400 (cont'd)

	<u>Monthly Rate</u>	<u>Service Charge</u>				
<b>Interoffice Channel</b> , per terminal (two required per interoffice channel) /PMNSS, PMNFX/	\$5.10	NA				
	<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="2" style="text-align: center;">Monthly Rate</th> </tr> <tr> <th style="text-align: center;">0 to 250 miles each mile</th> <th style="text-align: center;">Each add'l mile over 250</th> </tr> </table>	Monthly Rate		0 to 250 miles each mile	Each add'l mile over 250	
Monthly Rate						
0 to 250 miles each mile	Each add'l mile over 250					
<b>Interoffice Channel</b> , each V-H mile or fraction thereof /1LHU4/	\$5.40	\$0.50				
	<u>Monthly Rate</u>	<u>Service Charge</u>				
<b>Interexchange Channel Terminal</b> , per terminal (two required per interexchange channel)						
Type 311 /P1NA1/	\$30.00	None				
Type 312 /P1NB1/	32.40	None				
Type 314A /P1NG1/	30.00	None				
Type 414B /P1NH1/	30.00	None				
Type 414C /P1NJ1/	30.00	None				
Type 417A /P1NK1/	30.00	None				
Type 320 /P1NL1/	30.00	None				
Type 432 /P1NM1/	34.30	None				
Type 442 /P1NO1/	30.00	None				
Type 443 /P1NP1/	30.00	None				
Type 420 /P1NQ1, P1NC1/	32.40	None				
Type 422 /P1NR1, P1NE1/	30.00	None				
Type 423 /P1NS1/	32.40	None				
Type 424 /P1NT1/	30.00	None				
Type 425 /P1NU1/	32.40	None				
Type 428 /P1NV1/	32.40	None				
Type 435 /P1NW1/	30.00	None				
Foreign Exchange /P1NF4/	15.65	None				

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

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

3. Voice Grade Service - Series 300<sup>/2/</sup> and 400 (cont'd)

f. Rates – IntraLATA Interexchange Series 300 and 400 (cont'd)

	Monthly Rate		
	First	Each add'l	
	<u>1/10 mile</u>	<u>1/10 mile</u>	<u>Service Charge</u>
<b>Each additional point of termination of a local channel in different building, same premises<sup>/1,2,4/</sup></b>			
Type 311 /1LPJK/	\$4.84	\$0.65	\$64.50 <sup>/3/</sup>
Type 320 /1LPWK/	9.50	1.24	96.50 <sup>/3/</sup>
Type 422 /1LMFK/	8.35	0.65	129.00 <sup>/3/</sup>
Type 423 /1LMGK/	4.84	0.65	64.50 <sup>/3/</sup>
Type 425 /1LMJK/	9.50	1.24	64.50 <sup>/3/</sup>
<b>Each additional point of termination of a local channel in same building<sup>/1,2,4/</sup></b>			
Type 311 /2SE/	2.96		64.50 <sup>/3/</sup>
Type 320 /M8X23/	4.46		96.50 <sup>/3/</sup>
Type 422 /M8XF3/	5.80		129.00 <sup>/3/</sup>
Type 423 /M8XG3/	2.96		64.50 <sup>/3/</sup>
Type 425 /MUXJ3/	4.46		64.50 <sup>/3/</sup>
<b>Bridging Charge (multi-point service), per bridged channel</b>			
/BQ7/	10.30		

/1/ Additional points of termination do not apply for Types 314A, 414B, 442, 443, 424 and 428.

/2/ Obsolete to existing service installations at existing locations for existing customers.

/3/ Charge applies per point of termination inside moved.

/4/ The monthly rate shown does not include maintenance and/or repair.

**CHANNELS (cont'd)****B. Description of Services (cont'd)**3. Voice Grade Service - Series 300<sup>/1/</sup> and 400 (cont'd)

## g. Conditioning Options – Available for Types 414B, 414C, 420 and 422

The types and description of the available conditioning options at rates and charges specified in 'Channel Conditioning Charges' found later in this Section, are as follows:

1. Type C - Conditioning provides assured transmission quality for frequency response and envelope delay distortion as specified below.

Type C1<sup>/2/</sup> - For a two-point or multi-point channel:

- The envelope delay distortion shall not exceed:  
Between 1000 and 2400 Hz, a maximum difference of 1000 microseconds
- The loss deviation with frequency (from 1000 Hz, reference) shall not exceed:  
Between 1000 and 2400 Hz, -1dB to +3dB. Between 300 and 2700 Hz, -2dB to +6dB  
(+ means more loss)

Type C2<sup>/2/</sup> - For a two-point or multipoint channel:

- The envelope delay distortion shall not exceed:  
Between 1000 and 2600 Hz, a maximum difference of 500 microseconds  
Between 600 and 2600 Hz, a maximum difference of 1500 microseconds  
Between 500 and 2800 Hz, a maximum difference of 3000 microseconds
- Frequency response shall not exceed:  
Between 500 and 2800 Hz, -1 dB to +3 dB  
Between 300 and 3000 Hz, -2 dB to +6 dB  
(+ means more loss)

NOTE: On a three-point or four-point channel, conditioning in accordance with above specifications is applicable only between one service point (that designated by the customer as the control point) and each of the other two or three service points.

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

/2/ Type C1 and C2 Channel Conditioning Service will be provided subject to these restrictions: with customer Premises Equipment, the conditioned channel is restricted to no more than five (5) points and/or 4000 miles on "two-wire" service and no more than twenty (20) points and/or 4000 miles on "four-wire" circuits. These restrictions do not apply to one-way simultaneous transmission from a master service point to all other service points such as broad-cast-type multi-point service.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

3. Voice Grade Service - Series 300<sup>/1/</sup> and 400 (cont'd)

g. Conditioning Options – Available for Types 414B, 414C, 420 and 422 (cont'd)

1. Type C (cont'd)

Type C4 - For a two-point or three-point channel:

- The envelope delay distortion shall not exceed:  
Between 1000 and 2600 Hz, a maximum difference of 300 microseconds  
Between 800 and 2800 Hz, a maximum difference of 500 microseconds  
Between 600 and 3000 Hz, a maximum difference of 1500 microseconds  
Between 500 and 3000 Hz, a maximum difference of 3000 microseconds
- Frequency response shall not exceed:  
Between 500 and 3000 Hz, -2 dB to +3 dB  
Between 300 and 3200 Hz, -2 dB to +6 dB  
(+ means more loss)

NOTE: On a three-point channel, conditioning in accordance with above specifications is applicable only between one service point (that designated by the customer as the control point) and each of the other two or three service points.

Type C5 - For a two-point channel:

- The envelope delay distortion shall not exceed:  
Between 1000 and 2600 Hz, a maximum difference of 100 microseconds  
Between 600 and 2600 Hz, a maximum difference of 300 microseconds  
Between 500 and 2800 Hz, a maximum difference of 600 microseconds
- Frequency response shall not exceed:  
Between 300 and 3000 Hz, -1.0 dB to +3.0 dB  
Between 500 and 2800 Hz, -0.5 dB to +1.5 dB  
(+ means more loss)

2. Type D1 - High Performance Data Conditioning for a two-point channel not arranged for switching<sup>/2/</sup>

- Signal to C-Notched Noise Ratio 28 dB
- Non-Linear distortion:
  - Signal to second order distortion 35 dB
  - Signal to third order distortion 40 dB

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

/2/ Available only where service components and conditions permit.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

3. Voice Grade Service - Series 300<sup>/1/</sup> and 400 (cont'd)

h. Foreign Exchange and Foreign Exchange Centrex (with switching equipment located on Company premises) Station Service

1. This service is furnished to a maximum of two exchanges (in addition to the exchange in which the Exchange service is furnished). The Exchange service connection is provided from one exchange only.
2. Service is furnished on the condition that additional costs to the Company may be necessary to provide a type of signaling suitable for operation with the exchange from which service is furnished, or to provide, at the customer's request, a type of signaling other than the type the Company would elect to furnish. In such cases, additional charges shall apply.
3. Customers, for the exchange portion of the service, are subject to exchange charges, rules and regulations; and for the private line portion of the service, are subject to the private line charges, rules and regulations in this Guidebook.
4. The Company will only provide this service when both service points (the open end and the closed end) are within the same LATA.
5. Off premises extensions are provided only where service components and conditions permit. Type 415 /1LLAY/ local channels charges apply for off-premises extensions.
6. Rates

	<u>Monthly Rates</u>	<u>Service Charge</u>
Point of Termination in one foreign exchange <sup>/2,4/</sup> between exchanges, 0-20 miles apart /T21/	\$17.00	\$236.00
Between exchanges over 20 miles apart /T22/	17.00	236.00
Point of Termination in two foreign exchanges /T1S/ <sup>/3,4/</sup>	58.00	236.00

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

/2/ In addition, Private Line Charges as set forth in this Guidebook apply between the serving office of the customer premises and the serving office from which the exchange service is provided. Local channel charges do not apply to the main station but do apply to Centrex Main Stations and extensions.

/3/ Local channel charges do not apply to the main station and one extension, but do apply to Centrex Main Stations and extensions.

/4/ Local channel charges do not apply when the exchange service terminates in a channel port of an Access Advantage Plus Service.



**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

3. Voice Grade Service - Series 300<sup>/1/</sup> and 400 (cont'd)

i. Foreign Serving Office and Centrex (with switching equipment located on Company premises) Station Service

1. This service is furnished to a maximum of two serving offices (in addition to the serving office in which the Exchange Service is furnished) within the exchange or metropolitan exchange in which the exchange service is furnished.
2. Service is furnished on the condition that additional costs to the Company may be necessary to provide a type of signaling suitable for operation with the serving office from which service is furnished, or to provide, at the customer's request, a type of signaling other than the type the Company would elect to furnish. In such cases, additional charges shall apply.
3. Customers, for the exchange portion of the service, are subject to exchange charges, rules and regulations; and for the private line portion of the service, are subject to the private line charges, rules and regulations in this Guidebook.
4. Off-premises extensions are provided only where service components and conditions permit. Type 415 /1LLRY, 1LLHY/ local channel charges apply for off-premises extensions.
5. Rates

	<u>Monthly Rates</u>	<u>Service Charge</u>
Point of Termination in one foreign serving office <sup>/2,4/</sup> /T21FS/	None	\$220.00
Point of Termination in two foreign serving offices <sup>/3,4/</sup> /T1SFS/	\$33.10	220.00
Interoffice Channel Terminal, each (two required per interoffice channel) /PMNFS/	17.95	None

/1/ Obsolete - applicable to existing service installations at existing locations for existing customers.  
 /2/ In addition, private line charges as set forth in this paragraph (Voice Grade Service – Series 300 and 400), apply between the serving office of the customer premises and the serving office from which the Exchange Service is provided. Local channel charges do not apply to the main station but do apply to Centrex Main Stations and extensions.  
 /3/ Local channel charges do not apply to the main station and one extension but do apply to Centrex Main Stations and extensions.  
 /4/ Local channel charges do not apply when the exchange service terminates in a channel port of an Access Advantage Plus Service.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

- 4. Reserved for Future Use (C)
- (D)

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

4. Reserved for Future Use (cont'd)

(C)

(D)

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

4. Reserved for Future Use (cont'd)

(C)

(D)

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

4. Reserved for Future Use (cont'd)

(C)

(D)

**CHANNELS (cont'd)****B. Description of Services (cont'd)**

## 5. Extension Services

## a. Regulations

1. In addition to the general regulations and definitions applicable to private line services set forth in Part 15, Section 1, the following regulations apply to Extension Service.

- (a) Voice Grade Service (300<sup>/1/</sup> and 400 Series Channels)

Extension service is that of furnishing service components for one or more service points for each authorized connection to a private line voice grade service equipped for communication among three or more service points at a time, and furnished to a branch or agency of the United States Government for the collection and dissemination of information relating to air traffic control activities and similar information of public interest in connection with supervision of the flight of aircraft along civil airways.

- (b) Sub-Voice Grade Services (200 Series Channels)

1. Extension service is that of furnishing service components to allow connection with a private line sub-voice grade service furnished to a branch or agency of the United States Government for the collection and dissemination of weather information or miscellaneous airways information pertaining to the supervision of flight of air-craft along civil airways.

2. Connection may be made as follows:

*Receiving Only Service* - for reception of weather and miscellaneous airways information transmitted over the Government service to which it is connected.

*Sending and Receiving Service* - for transmission of flight plans to and acknowledgement of such plans from the Government service to which the connection is authorized.

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

**CHANNELS (cont'd)****B. Description of Services (cont'd)**

## 5. Extension Services (cont'd)

## b. Rates

## 1. Voice Grade Service

## (a) Local Channels

A charge as specified in 'Voice Grade Service – Series 300<sup>/1/</sup> and 400' preceding, for two local channels to the customer's premises applies for each extension service not located on the same premises as a government service point and arranged for communication among three or more service points at one time.

## (b) Extension Service Arrangements

Standard private line charges apply to extension service located in the same exchange on different premises than the Government service.

## (c) IntraLATA Interexchange Channels

The charges as specified in 'Voice Grade Service – Series 300<sup>/1/</sup> and 400' preceding, apply.

## (d) Interoffice Channels

The charges as specified in 'Voice Grade Service – Series 300<sup>/1/</sup> and 400' preceding, apply.

## 2. Sub-Voice Grade Services

## (a) Local channel charges as specified in 'Sub-Voice Grade Service – Series 200' preceding, apply, except for these exceptions:

- Where an extension service station is connected to the Government service at a station on the Government service and is on the same airport as the Government station, an additional Local Channel charge applies.
- Where the extension service or more than one extension service is furnished on the same premises and connected to the same service, additional Local Channel charges apply.

## (b) IntraLATA Interexchange Channels

The charges as specified in 'Sub-Voice Grade Service – Series 200' preceding, apply.

## (c) Interoffice Channels

The charges as specified in 'Sub-Voice Grade Service – Series 200' preceding, apply.

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

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

6. Local Area Data Service

a. Regulations

In addition to the Regulations specified previously in 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 service components, 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. This 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 nonloaded cable service components. In the event that only loaded service components are available, the Company will, at the customers request, deload service components as specified under the Special Construction provisions as provided in Part 15, Section 1, Paragraph D.4.

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

*Type 980* - two-wire interface with effective two-wire service components for use with Customer Premises Equipment with the transmission characteristics specified in the following paragraph, and the applicable Bell System Technical Reference.

*Type 981* - four-wire Interface with effective four-wire service components for use with Customer Premises Equipment with the transmission characteristics specified in the following paragraph, and the applicable Bell System Technical Reference.

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

Maximum End-to-End Service Component Insertion in Route Miles	Maximum Length Loss at 1000 Hz, in dB <sup>/1/</sup>
1	9.0
2	13.5
3	17.0
4	20.0
5	23.0
6	25.5

/1/ Insertion loss is referenced to 135 OHM resistive terminations at each end.



**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

6. Local Area Data Service (cont'd)

c. Rates

	<u>Monthly Rate</u>	<u>Service Charge</u>
Same Building Channels, Two-Point Service <sup>/1,3/</sup> Type 981 /1LMGB, 1L6GB/	\$19.60	\$220.00 <sup>/2/</sup>
	Monthly Rate	
	<u>First 1/10 Mile</u>	<u>Additional 1/10 Mile</u>
Different Building, Same Premises Channels, Per 1/10 Mile, Two-Point Service <sup>/1,3/</sup>		<u>Service Charge</u>
Type 980 /1LMGC/	\$12.55	\$0.60
Type 981 /1LMGC, 1L6GC/	26.80	1.15
		\$220.00 <sup>/2/</sup>
		220.00 <sup>/2/</sup>
		<u>Service Charge</u>
Local Channel, each, per termination on a premises, Two-Point Service		
Type 980 /1LMGJ/	\$25.85	\$145.00
Type 981 /1LMGJ, 1L6GJ/	51.65	160.00

/1/ Obsolete to existing service installations at existing locations for existing customers.

/2/ Charge applies per channel inside moved.

/3/ The monthly rate shown does not include maintenance and/or repair.

**CHANNELS (cont'd)****B. Description of Services (cont'd)**

## 7. Customer Operating Center Service

## a. Regulations

1. A customer who operates a Customer Operating Center requiring large, dedicated quantities of local channel types 101, 102, 415, 417, 420, 422, 423 or 428 between their location and its normal serving office may, at his option, subscribe to Customer Operating Center Service.
2. For the purpose of this offering, a Customer Operating Center is a customer premises:
  - (a) Operated by the customer over which the customer has control and provides security.
  - (b) From which the customer furnishes and administers services to multiple patrons in a geographical area. The term "patron" denotes a subscriber to the services offered by the operator of a Customer Operating Center.
  - (c) At which a system, or a group of systems, operated by the customer to receive signals and messages which are recorded, maintained and supervised by the customer.
  - (d) At which the customer has regularly scheduled observers, operators and/or equipment in attendance at all times, which upon receipt of a signal or message from a patron, take such action as shall be required under the rules established by the customer for their/its guidance.
3. Ownership of service components provided in accordance with this offering remains with the Company.

## b. Method of Applying Rates

## 1. Recurring Monthly Rates

- (a) Dedicated cable - a monthly rate applies per cable of a specific quantity of pair and length.
  1. Cable sizes available are 100, 200, 300, 400, 600, 900, 1200, 1500, 1800, 2100, 2400 and 2700.
  2. The customer will provide the cable size he wishes to have dedicated to his use and agrees to payment of charges per each dedicated cable.
  3. Distances are measured in airline one-quarter-mile increments from the customer's operating center to its normal serving office. The maximum distance for this service is one mile.
- (b) Local Channel activated - a monthly charge per local channel activated also applies. This monthly charge and all associated Private Line Channel charges are billable to the Customer Operating Center subscriber only and not his patron.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

7. Customer Operating Center Service (cont'd)
  - b. Method of Applying Rates (cont'd)
    2. Service Charges - are applicable:
      - (a) Per dedicated cable.
      - (b) Per local channel activated, this charge and any other Private Line Channel charges are billable only to the Customer Operating Center subscriber.
    3. Termination Liability Contract
      - (a) To the extent there is no other requirement for use by the Company of service components provided under this plan, a termination contract will apply for service components furnished at the request of the customer between his premises and the normal service office.
      - (b) The termination liability period is five (5) years.
      - (c) The amount of the termination liability contract is equal to the estimated amount for:
        1. Cost of the installed service components provided including costs incurred for rearrangements of existing service components and/or construction of new service components as appropriate, less net salvage. Installed cost includes the cost of:
          - equipment and materials provided or used,
          - engineering, labor and supervision, rights of way.
        2. License preparation, processing and related fees.
        3. Any other items of expense associated with the particular situation.
      - (d) The five-year termination liability contract, as described above, applies per dedicated cable and is reduced by 1/60 for each month of the five-year period that the cable is in service from the date it is placed in service for a specific customer.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

7. Customer Operating Center Service (cont'd)

c. Rates

(D)

(D)

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

7. Customer Operating Center Service (cont'd)

c. Rates (cont'd)

Recurring Monthly Rates (cont'd)

**Per Intraexchange Local Channel Activated**, by type of service

	<u>Within 1/4 Mile</u>	<u>Within 1/2 Mile</u>	<u>Within 3/4 Mile</u>	<u>Within 1 Mile</u>	<u>Service Charge per Circuit Activated</u>
Type 101 /1LMCZ/	None	None	None	None	\$130.00
Type 102 /1LMCZ/	\$1.85	\$1.85	\$1.85	\$1.85	215.00

(D)

(D)

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

7. Customer Operating Center Service (cont'd)

c. Rates (cont'd)

Recurring Monthly Rates (cont'd)

**Per IntraLATA Interexchange Local Channel Activated**, by type of service

	<u>Within 1/4 Mile</u>	<u>Within 1/2 Mile</u>	<u>Within 3/4 Mile</u>	<u>Within 1 Mile</u>	<u>Service Charge per Circuit Activated</u>
Type 102 /1LMCZ/	\$3.45	\$3.45	\$3.45	\$3.45	\$215.00

(D)

(D)

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

8. Served Direct Service

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 service components.<sup>/1/</sup>
  - (b) When there is a minimum billing of fifteen (15) channels per two-point configuration.
  - (c) When the maximum airline distance between the two premises is one mile or less.
  - (d) When the customer considers it economically feasible to change to Served Direct Service.
3. A customer may request this service offering when it is not the economic decision of the Company; however, in such case, Special Construction Charges as specified in Part 15, Section 1, Paragraph D.4 shall apply in addition to the rates and charges found in this section.
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 service components and/or construction of new service components 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

	<u>USOC</u>	<u>1/10 Mile</u>	<u>Add'l 1/10 Mile</u>	<u>Service Charge<sup>/2/</sup></u>	(C)
Between Different Buildings on Different Premises					
Type 101	/1L3QQ/	\$11.05	\$2.30	\$105.00	(D)
Type 428	/1LMKQ/	11.05	2.30	105.00	(D)

/1/ A Basic Termination Liability Contract may be applicable in this case if the Company determines the service components are not reusable. The contract period will normally be 36 months, and the amount will be reduced by 1/36th for each month in service.

/2/ Service charge applies per point of termination.

(D)  
(C)

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

9. Signaling

a. Rules and Regulations

1. The Type A, B and C Loop Signaling Arrangements for station ports of a premises PBX (or similar) switching system and the E&M Signaling Arrangement for tie-lines are furnished for grandfathered and registered PBX's in accordance with Part 68 of the Federal Communication Commission's Rules and Regulations.
2. For connections to registered PBX (or similar) equipment, customers must specify the equipment capability of their registered equipment.
3. Customers with grandfathered customer-provided PBX (or similar) equipment may, at their option:
  - (a) Continue to provide their own off-premises station signaling capability and utilize only the type 428 channel.
  - (b) Request that off-premises station signaling capability be provided by the Company. Where this option is selected, the customer must specify his/her equipment signaling capability.

b. Signaling Options

1. Signaling Options per point of termination for the capability to accommodate signaling on Private Line Service utilizing 311<sup>/1/</sup>, 320<sup>/1/</sup>, 420<sup>/1/</sup>, 422<sup>/1/</sup>, 423, 425 and 435 type services.

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Service Charge</u>
<b>IntraLATA Interexchange</b>			
Manual <sup>/2/</sup>	/J1B/	\$26.25	\$45.00
Automatic <sup>/3/</sup>	/J1A/	27.90	45.00
<b>Intraexchange</b>			
With Interoffice Channel			
Manual <sup>/2/</sup>	/J1B/	8.25	45.00
Automatic <sup>/3/</sup>	/J1A/	8.15	45.00
Without Interoffice Channel			
Manual <sup>/2/</sup>	/J1BWO/	9.30	45.00
Automatic <sup>/3/</sup>	/J1AWO/	10.30	45.00

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

/2/ Manual signaling for multipoint channels is available on Type 425 and 435 local channels only. Any other existing applications should be considered obsolete-applicable to existing service installations at existing locations for existing customers.

/3/ Automatic signaling is not available for multipoint private line local channels. Any other existing applications should be considered obsolete-applicable to existing service installations at existing locations for existing customers.



**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

9. Signaling (cont'd)

b. Signaling Options (cont'd)

2. Signaling Options per point of termination for the capability to accommodate signaling on Private Line Service utilizing type 400 Local Channels indicated below. Signaling is limited to two-point service only.

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Service Charge</u>
<b>IntraLATA Interexchange</b>			
<i>Arranged for E&amp;M Type signaling</i>			
Type 423 <sup>/1/</sup>	/SLM23/	\$21.30	\$65.00
Type 424	/SLM24/	21.60	65.00
Type 425 <sup>/1/</sup>	/SLM25/	21.60	65.00
<i>Arranged for Loop signaling, a maximum of 1300 ohms</i>			
Type 423 <sup>/1/</sup>	/SLL23/	34.15	65.00
Type 428 <sup>/1/</sup>	/SLL28/	17.55	65.00 <sup>/2/</sup>
<i>Arranged for Loop signaling, per customer requested ohm maximum</i>			
Type 428 <sup>/1/</sup>	/SLLC8/	21.60	65.00 <sup>/2/</sup>
<b>Intraexchange</b>			
<i>Arranged for E&amp;M Type Signaling with Interoffice Channel</i>			
Type 423 <sup>/1/</sup>	/SLM23/	8.00	65.00
Type 424	/SLM24/	10.60	65.00 <sup>/2/</sup>
Type 425 <sup>/1/</sup>	/SLM25/	10.60	65.00
<i>Arranged for E&amp;M Type Signaling without Interoffice Channel</i>			
Type 420 <sup>/1/</sup>	/SLMW0/	4.70	65.00
Type 423 <sup>/1/</sup>	/SLMW3/	4.70	65.00
Type 424	/SLMW4/	4.70	65.00 <sup>/2/</sup>
Type 428 <sup>/1/</sup>	/SLMW8/	4.70	65.00

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

/2/ Service Charge applies only if the signaling option is installed subsequent to initial installation of the local channel.

**CHANNELS (cont'd)****B. Description of Services (cont'd)**

## 9. Signaling (cont'd)

## b. Signaling Options (cont'd)

## 2. (cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Service Charge</u>
<b>Intraexchange (cont'd)</b>			
<i>Arranged for Loop Signaling with Interoffice Channel, a maximum of 1300 ohms</i>			
Type 423 <sup>/1/</sup>	/SLL23/	\$8.00	\$65.00
Type 428 <sup>/1/</sup>	/SLL28/	8.30	65.00 <sup>/2/</sup>
<i>Arranged for Loop Signaling without Interoffice Channel, a maximum of 1300 ohms</i>			
Type 423 <sup>/1/</sup>	/SLLW3/	5.95	65.00
Type 428 <sup>/1/</sup>	/SLLW8/	None	None
<i>Arranged for Loop Signaling with Interoffice Channel, per customer requested ohm maximum</i>			
Type 428 <sup>/1/</sup>	/SLLC8/	8.60	65.00 <sup>/2/</sup>
<i>Arranged for Loop Signaling without Interoffice Channel, per customer requested ohm maximum</i>			
Type 428 <sup>/1/</sup>	/SLLA8/	2.15	65.00 <sup>/2/</sup>

The DC resistance specification does not imply a guaranteed end-to-end DC continuity. The customer can expect to be provided a loop meeting the same limits as the normal central office loop (i.e., not exceeding 1300 ohms) exclusive of 200 ohm maximum terminal equipment resistance.

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

/2/ Service Charge applies only if the signaling option is installed subsequent to initial installation of the local channel.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

9. Signaling (cont'd)

b. Signaling Options (cont'd)

3. IntraLATA Intraexchange Type A, B and C Signaling Arrangements

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Service Charge</u>
Loop Signaling Options per Local Channel on Type 428 when associated with station ports of a premises switching system			
Type A capable of operation over loops with resistance in the range of 0-199 ohms	/SALAS/	\$8.40	\$40.00 <sup>/1/</sup>
Type B capable of operation over loops with resistance in the range of 200-899 ohms	/SAUBS/	8.70	40.00 <sup>/1/</sup>
Type C capable of operation over loops with resistance in the range of 900 ohms or more	/SAYCS/	3.55	5.00 <sup>/1/</sup>

The DC resistance specification does not imply a guaranteed end-to-end DC continuity. The customer can expect to be provided a loop meeting the same limits as the normal central office loop (i.e., not exceeding 1300 ohms) exclusive of 200 ohm maximum terminal equipment resistance.

/1/ Service Charge applies only if the signaling option is installed subsequent to initial installation of the local channel.

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

9. Signaling (cont'd)

b. Signaling Options (cont'd)

4. Intraexchange Type A, B and C Signaling Arrangements

	Monthly Rate		
	<u>Without</u>	<u>With</u>	<u>Service</u>
	<u>Interoffice</u>	<u>Interoffice</u>	<u>Charges</u>
Loop Signaling Options per Local Channel on Type 428 when associated with station ports of a premises switching system			
Type A capable of operation over loops with resistance in the range of 0-199 ohms USOC:	\$9.70 /SALAW/	\$7.20 /SALAL/	40.00 <sup>/1/</sup>
Type B capable of operation over loops with resistance in the range of 200-899 ohms USOC:	11.10 /SAUBW/	7.70 /SAUBL/	40.00 <sup>/1/</sup>
Type C capable of operation over loops with resistance in the range of 900 ohms or more USOC:	0.48 /SAYCW/	2.53 /SAYCL/	40.00 <sup>/1/</sup>

The DC resistance specification does not imply a guaranteed end-to-end DC continuity. The customer can expect to be provided a loop meeting the same limits as the normal central office loop (i.e., not exceeding 1300 ohms) exclusive of 200 ohm maximum terminal equipment resistance.

/1/ Service Charge applies only if the signaling option is installed subsequent to initial installation of the local channel.

**CHANNELS (cont'd)****B. Description of Services (cont'd)**

## 10. Channel Conditioning Charges

	<u>Monthly Rate</u>	<u>Service Charge</u>
<b>Type C1</b>		
Two point not arranged for switching, per service point /P2W/	\$9.40	\$40.00
Two point arranged for switching to another two-point channel, per service point /P2X/	17.00	40.00
Multi-point channel, per service point /P3G/	18.80	40.00
<b>Type C2</b>		
Two point not arranged for switching, per service point /P3HC2/	40.70	40.00
Two point arranged for switching, per service point /P3J/	60.95	40.00
Multi-point channel, per service point /PH9/	60.95	40.00
<b>Type C4</b>		
Two point channel, per service point /P4G/	65.80	40.00
Three- or four-point channel, per service point /6DU/	84.70	40.00
<b>Type C5</b>		
On a two-point channel not arranged for switching, per service point /UHD/	94.10	55.00
<b>Type D1</b>		
Two-point channel not arranged for switching, per service point /QHA/	11.35	40.00

**CHANNELS (cont'd)**

**B. Description of Services (cont'd)**

11. Telecommunications Service Priority (TSP) System

The priority provisioning and restoration of services offered under this offering relative to the National Security Emergency Preparedness (NSEP) Telecommunications Service Priority (TSP) System shall be pursuant to the regulations and rates as delineated in Part 8, Section 5.

For application in this offering, such regulations, rates and charges shall be interpreted to apply on a "per request, per circuit" basis.

12. Network Reconfiguration Service (NRS) <sup>/1/</sup>

(C)

Type 420, 422, 423, 424, 425 and 435 services in this Guidebook may be terminated into an NRS channel port in order for the customer to reconfigure portions of their dedicated services network. Regulations, rates and charges for NRS can be found in the Part 15, Section 3.

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.

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

(N)  
(N)