
B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

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B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.1 Provision Of Service

Effective June 30, 2021, Channel 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 (December 1, 2021 for Wired Music Service). (N)

B103.1.1 General

- A. Channel Services provided under the provisions of this Guidebook are offered for IntraLATA Services only. Services consisting of Local Channels, Interoffice Channels, and Optional Features and Functions are classified by series. The various series are sub-divided into different types and are described in terms of circuit characteristics and use. (O)
- B. Customers may order local channels which are designed to meet specific communications requirements. The customer is responsible for determining that his terminal equipment is compatible with the service provided by the Company. (O)
- C. Where multipoint service is furnished, the local channels are bridged in the wire center. (O)
- D. Dedicated circuits between the customer's interLATA Electronic Tandem Switching (ETS), Digital Electronic Tandem Switching (DETS) or Tandem Switching Features (TSF) functions and the customer's other location(s) within the same LATA will be provided from this Guidebook. Where this service is provided by the Company as a feature of ESSX service, Digital ESSX Service, MultiServ service, MultiServ PLUS service, or BellSouth Centrex service, the transport of traffic between the ETS, DETS, or TSF function and the basic ESSX service, Digital ESSX Service, MultiServ service, MultiServ PLUS service, or BellSouth Centrex service functions may be performed by the Company's network switching facilities. (O)
- E. Channels requiring placement of new cable or wire facilities between two or more points on a customer's continuous property are no longer available effective January 1, 1987. However, where spare channels are available in existing Company-Owned facilities on a customer's continuous property, such channels may be available for the customer's use at the sole discretion of the Company, subject to the terms, conditions, and charges specified in *this* Section B103. (T)(O)

B103.1.2 Service Configurations

- A. There are two types of service configurations which can be provided. These are described as follows: (M)
(T)(O)
- 1. Two-Point Service (O)
A two-point service connects two customer premises either directly through a serving wire center(s) or through a Company hub where additional functions are performed. (O)
- 2. Multipoint Service (O)
 - a. Multipoint service connects three or more customer premises through a Company hub. (O)
 - b. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between hubs (i.e., bridging locations). (O)
 - c. Voice Grade (Series 2000) Multipoint Channel services for data use have a limit of six two-wire facility type local channels or 20 four-wire facility type local channels when used with customer-provided station equipment. (O)
 - d. Only certain types of service are available for multipoint applications. These are so designated in the service descriptions set forth in B3.2. (O)

B103.1.3 Special Routing Of IntraLATA Channels

- A. The private line services furnished in this Guidebook are provided over such routes as the Company may elect. (T)(O)
- B. Special routing is involved where, in order to comply with requirements specified by the customer, the Company furnishes the private line service in a manner which includes one or both of the following conditions: (O)
 - 1. Where two or more private lines must be furnished over different physical routes. (O)
 - 2. Where a private line must be furnished on a route which avoids specified geographical locations. (O)
- C. When special routing of services is furnished a customer, the rates will be determined on an individual case basis. (O)

B103.1.4. Continuous Property Channels

- A. New channels between points on the same customer's continuous property are provided at the sole discretion of the Company and only where spare capacity is available in existing facilities. (T)
- B. A Continuous Property Channel consists of one pair (half duplex) or two pairs (full duplex) of metallic conductors with the physical and electrical transmission characteristics inherent to the existing facility. Equipment that is required to improve or alter the transmission characteristics of the channel is the responsibility of the customer and must be connected on the customer's side of the network interface. The customer may not access or alter a Continuous Property Channel in mid-span; nor install any equipment which results in harm to the facility or other channels within the cable or wire facility. (T)

Page 1.1 is hereby deleted in its entirety and removed from this Guidebook.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.1 Provision Of Service (Cont'd)

(T)(M1)

B103.1.4. Continuous Property Channels (Cont'd)

(M1)

C. Subject to A, when twenty five or more half duplex channels are required between the same two points, the Company will consider a bulk provisioning arrangement whereby the subscriber can lease channels in multiples of twenty five channels. With bulk provisioning arrangements, no subsequent recurring or nonrecurring charges apply as channels are activated by the subscriber. Rates for bulk provisioning arrangements are determined on a Special Arrangement Basis (see Section B5).

(T)(M1)

D. Continuous Property Channels will be discontinued when associated cable facilities can no longer be economically maintained.

(T)(M1)

B103.2 Service Descriptions

(T)

B103.2.1 Sub Voice Grade Services - Series 1000 Channels

(T)(O)

A. These channels are furnished for operation on a two point or multipoint basis subject to the number of point limitations indicated for each type and are provided for use with customer-provided power and signaling equipment. It is expressly declared that metallic facilities are in continually decreasing supply and that the Company does not hold itself in a position to make such facilities available. In addition, if modernization programs dictate the replacement of existing metallic facilities with non-metallic facilities such as fiber optics, the Company will not be required to continue this service. In consideration of the decreasing supply of metallic facilities, the Company will convert a customer's service requiring direct current continuity to a Voice Grade Service and waive the nonrecurring charges associated with the change. This applies to customers where metallic facilities are being replaced with non-metallic facilities, or a customer may elect to make this change at any time prior to a modernization program that would eliminate the availability of metallic facilities. The various types of services furnished within this Series are as follows:

(O)

1. Types 1050 and 1051 Sub Voice Grade Services

(N)

Types of local channels and the transmission characteristics offered for termination at a premises for termination in customer-provided terminal equipment and systems. Designed for transmission of low speed data at speeds up to 75 and up to 150 baud within certain technical specifications. These channels are furnished for half duplex and duplex operation for use with two-point or multi-point Private Line Services. The service is not suitable for transmission of alternating tones. (Effective 8-31-85, Obsolete Type B, not available for new installations, additions or on transfer of service to new locations.)

(T)(M1)

a. Type 1050

A four-wire interface engineered for binary signals at rates up to 75 baud, 20 or 62.5 milliamperes dc neutral signals. The terminal equipment with a transmitted output of no more than 8 percent (8%) telegraph distortion local and capable of processing received data signals with up to 35 percent (35%) telegraph distortion.

(T)(M1)

(M1)

The Company has the option of providing 20 or 62.5 milliamperes and will notify the customer of the current level to be supplied. 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.

(M1)

b. Type 1051

EIA Standard RS232B type interface engineered for binary signals at rates up to 150 baud and the terminal equipment with a transmitted output of not more than 5 percent (5%) telegraph distortion and capable of processing received data signals with up to (40%) telegraph distortion.

(T)(M1)

(M1)

2. Types 1204 and 1205 Sub Voice Grade Services

(N)

a. Type 1204 - a two-wire interface with two-wire facilities suitable for use with direct current continuity type of equipment. Signaling must be within the criteria as described in Technical Reference, "Transmission Specifications for Private Line Metallic Circuits" and limited to three station locations. This type channel may also be used to furnish auxiliary features (such as lights, hold, signaling, etc.)

(T)(O)

Current applied by CPE - ac & dc components per conductor, not to exceed 0.150 amperes rms

(O)

Magnitude of the peak of the voltage between any conductor and ground - not to exceed 70.7 volts (50 volts rms) except continuous dc voltage not to exceed 135 volts.

(O)

b. Type 1205 - A two-wire interface with two-wire facilities suitable for low speed, uni-directional series-operated signaling. Transmission specifications as described in Technical Reference, "Transmission Specification for Low Speed Signaling System Channels". Service is limited to three serving wire centers and 26 stations.

(T)(O)

(M2)

M1 - Material appearing on this page previously appeared on page(s) 1 and 9 of this section.
 M2 - Material previously appearing on this page now appears on page(s) 2.1 of this section.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Service Descriptions (Cont'd)

B103.2.1 Sub Voice Grade Services - Series 1000 Channels (Cont'd)

- B.** Parameters and Specifications for Sub Voice Grade Local Channels used with Customer Provided Station Equipment (CPE) is discussed in B103.3.1.B. The following type specifications apply. (T)(M)
1. Basic Parameters with Specification or Limit (M)
 - a. Channel Signals (M)

Local Channels used with CPE - as specified in B103.2.1.B. Note that the specifications of channel signals refer to the requirement of the total service offering and not the individual local channel. (M)
 - b. Channel Distortion (M)

Local Channels used with CPE - as specified in B103.3.1.B. Note that the specifications for channel distortion refer to the requirement of the total service offering and not the individual local channel. (M)
 - c. Power Requirement (M)

For up to 75 Baud Type - Where the Company provides transmission equipment at the interface. The customer must provide a source of continuous 117 volt, 60 Hz ac power by means of a non-switched outlet. (M)

For up to 150 baud - customer must in all cases provide a source of continuous 117 volt, 60 Hz ac power, non-switched outlet. (M)

The Company will in all cases supply all voltage and current adjustments. (M)

These channels are not suitable for the transmission of alternating current tones. (M)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Service Descriptions (Cont'd)

B103.2.2 Sub Voice Grade Service - Series 1100

- A. The following types of Sub Voice Grade Services are designed for transmission of low speed data at speeds up to 75 and up to 150 baud within certain technical specifications. These channels are furnished for half duplex and duplex operation for use with two-point or multi-point Private Line Services. The service is not suitable for the transmission of alternating current tones. (M1)

(Effective 8-31-85, Obsoleted Type B, not available for new installations, additions or transfers of service to new location.) (M1)

- B. The types of local channel and the transmission characteristics offered for termination at a premises for termination in customer-provided terminal equipment and systems are as follows: (M1)

1. Type 1150 (M1)

A four-wire interface engineered for binary signals at rates up to 75 baud, 20 or 62.5 milliamperes dc neutral signals. The terminal equipment with a transmitted output of no more than 8 percent telegraph distortion local and capable of processing received data signals with up to 35 percent telegraph distortion. (M1)

The Company has the option of providing 20 or 62.5 milliamperes and will notify the customer of the current level to be supplied. 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. (M1)

2. Type 1151 (M1)

EIA Standard RS232B type interface engineered for binary signals at rates up to 150 baud and the terminal equipment with a transmitted output of not more than 5 percent telegraph distortion and capable of processing received data signals with up to 40 percent telegraph distortion. (M1)

- C. Parameters and Specifications for Sub Voice Grade Local Channels used with Customer Provided Station Equipment (CPE) is discussed in **B103.2.2.B**. The following type specifications apply. (T)(M1)

1. Basic Parameters With Specification or Limit (M1)

- a. Channel Signals (M1)

Local Channels used with CPE - as specified in **B103.2.2.B**. Note that the specifications of channel signals refer to the requirement of the total service offering and not the individual local channel. (T)(M1)

- b. Channel Distortion (M1)

Local Channels used with CPE - as specified in **B103.2.2.B**. Note that the specifications for channel distortion refer to the requirement of the total service offering and not the individual local channel. (T)(M1)

- c. Power Requirement (M1)

For up to 75 Baud Type - Where the Company provides transmission equipment at the interface. The customer must provide a source of continuous 117 volt, 60 Hz ac power by means of a non-switched outlet. (M1)

For up to 150 Baud - Customer must in all cases provide a source of continuous 117 volt, 60 Hz ac power, non-switched outlet. (M1)

The Company will in all cases supply all voltage and current adjustments. (M1)

These channels are not suitable for the transmission of alternating current tones. (M1)

B103.2.3 Voice Grade Service - Series 2000

- A. Series 2000 voice grade service provides for voice and/or data communications on a two-point or multipoint basis for service 7 days per week, 24 hours per day, for a minimum period of one month. These channels may also be furnished on a link (partial channel) basis when connected to services such as FlexServ service, PulseLink service, LightGate service or MegaLink channel service. Channels which provide tie line service will not be furnished to connect a flat rate system with a message rate system. The transmission characteristics and various types of services furnished within this Series are described in B and C. (O)

(M2)

M1 - Material appearing on this page previously appeared on page(s) 2 of this section.

M2 - Material previously appearing on this page now appears on page(s) 9 of this section.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Service Descriptions (Cont'd)

(T)(O)

B103.2.3 Voice Grade Service - Series 2000

(T)(O)

B. Basic parameters and specifications for Series 2000 voice grade service are described for the end to end operation as follows:

(O)

Basic Parameters	For Speech Application	For Data Application	
Net Loss	Local Channels used with terminal equipment: Limit as specified in the following Local Channel descriptions. Losses or gains present in CPE have not been included.		(O)
DC Resistance	Local Channel limit as specified in the following Local Channel descriptions. Does not imply or guarantee end to end DC continuity.		(O)
Frequency Error	Plus or Minus 5 Hz	Plus or Minus 5 Hz	(O)
Frequency Response	(Referenced to 1000 Hz Loss)		(O)
300 - 3000 Hz	-3dB to + 12dB	-3dB to +12dB	(O)
500 - 2500 Hz	-2dB to + 8dB	-2dB to + 8dB	(O)
Envelope Delay Distortion			(O)
800 - 2600 Hz	Not Controlled	Less than 1750 Microseconds	(O)
C-Notched Noise (with a -13dBm0 1000 Hz Test Signal)	Not Controlled	Noise level 24dB below signal level	(O)
Impulse Noise	Not Controlled	15 Counts in 15 minutes at a threshold of 6dB below a -13dBm0 rms 1000 Hz Signal	(O)
Phase Jitter	Not Controlled	10 degrees peak to peak	(O)
Non-Linear Distortion			(O)
2nd Order Distortion	Not Controlled	25dB below signal level	(O)
3rd Order Distortion	Not Controlled	30dB below signal level	(O)

C. Transmission parameters for voice grade service are described following:

(O)

1. Type 2230 - A two-wire interface with effective two-wire facilities engineered for a 1004 Hz net loss of 0 to 10dB. Generally furnished for voice transmission - Private Line Telephone, Mobile Radio Telephone, or Supervisory Control Use. Multipoint service may be provided at charges specified in ***B103.4***. (T)(O)
2. Type 2231 - A two-wire interface with two or four-wire facilities engineered for a 1004 Hz net loss of 0dB to 4.5dB. This is generally used for PBX (or similar system) off-premises main or extension station services. Signaling is required for this service. (O)
3. Type 2432 - A two or four-wire interface with effective four-wire facilities engineered for tie line service use between PBX's or customer-provided communications systems. Signaling is required for this service. (O)
4. Type 2434- A two or four-wire interface for connection to the serving wire center where loop facilities are not required. This channel is suitable for tie line service (with E&M signaling) between Centrex Type Services or ESSX-1 Systems and may be connected with Type 2432 local channels. (O)
5. Type 2435 - A four-wire interface with effective four-wire facilities engineered for a 1004 Hz net loss of 0 to 16db. Generally furnished for voice transmission. Multipoint service may be provided at charges specified in ***B103.4***. (T)(O)
6. Type 2261 - A two-wire interface with effective two-wire facilities engineered for use in Telemetry/Alarm Bridging Service (TABS). (O)
7. Type 2462 - A four-wire interface with effective four-wire facilities engineered for use in Telemetry/Alarm Bridging Service (TABS). (O)
8. Type 2463 - A four-wire interface with four-wire facilities engineered for a 1004 Hz net loss of 16dB. Generally used in the provision of analog data services. Multipoint service may be provided at charges specified in ***B103.4***. (T)(O)
9. Type 2464 - A two-wire interface with four-wire facilities engineered for a 1004 Hz net loss of 16dB. Generally used in the provision of analog data services. Multipoint service may be provided at charges specified in ***B103.4***. (T)(O)

(M)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 *Service Descriptions* (Cont'd)

B103.2.3 Voice Grade Service - Series 2000 (Cont'd)

D. Signaling Arrangements

1. Off Premises Stations

- a. For use with PBX (or similar system) off-premises channels for terminal equipment. Signaling arrangements are furnished for grandfathered and registered PBX (or similar) systems in accordance with Part 68 of FCC Rules and Regulations or for customer-provided communications systems not subject to Part 68 of FCC Rules and Regulations.

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

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

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

- b. For connections to registered or grandfathered PBX (or similar) system equipment, the customer must specify the equipment capability for use with Type A, B, or C Signaling Arrangements.

2. Tie Lines

- a. E&M signaling is provided for use with tie line channels with E&M signaling interfaces. Signaling Arrangements are furnished for grandfathered and registered PBX's in accordance with Part 68 of the FCC Rules and Regulations or for customer-provided communications systems not subject to Part 68 of the FCC Rules and Regulations.

- An E&M Signaling Arrangement is required for each tie line termination, operating in a Dial Repeating mode, at a customer's premises with a registered PBX.

- An E&M Signaling Arrangement is required for each tie line termination at a customer's premises with grandfathered PBX's when the tie line is arranged with an E&M signaling interface.

- An E&M Signaling Arrangement is not required with Types 2432 and 2434 channels for additions to or for new installations of grandfathered PBX equipment when not arranged with an E&M signaling interface.

- An E&M Signaling Arrangement is required for each Type 2432 or 2434 channel termination at a customer's premises with a customer-provided communications system not subject to Part 68 of the FCC Rules and Regulations when arranged with an E&M signaling interface.

E. Telemetry/Alarm Bridging Service (TABS)

1. Terms and Conditions

- a. This Section contains the Terms and Conditions applicable for Telemetry/Alarm Bridging Service (TABS)

- b. Except as otherwise specified following, the Terms and Conditions contained herein are in addition to the Terms and Conditions found in other Sections of this Guidebook.

- c. TABS requires the use of equipment as specified *herein*, and Type 2261 or 2462 voice grade local channels described in **B103.2.2.C**.

- d. Terminal equipment provided by the customer for use with TABS must meet specifications for such customer-provided equipment found in other Sections of this Guidebook.

- e. No more than 128 remote stations may be connected to a master station over an individual Split Band Active Bridge.

- f. In Split Band Active Bridging arrangements, secondary bridges must be directly connected to the primary bridge via mid-link channels. Secondary bridges cannot be connected through other secondary bridges to allow additional layers of tandeming.

- g. Secondary bridges, utilized in Split Band, Active Bridging arrangements, reduce the two-wire remote station capacity of the primary bridge. The initial secondary bridge reduces the primary bridge capacity by twelve two-wire remote station connections. Each subsequent secondary bridge reduces the primary bridge capacity by four additional two-wire remote station connections. At the customer's option external bridging may be provided for connecting secondary bridges at the rate applicable in **B103.4**, without reducing the two-wire capacity of the primary bridge.

- h. Standard multipoint bridging charges as provided in other sections of this Guidebook are not applicable to TABS, except as provided in g.

- i. Access over four-wire master station channels for Split Band Active Bridging is provided using a Type 2462 local channel.

- j. Access over remote station channels is provided through a Type 2261 local channel and through the appropriate channel connection as contained in **B103.4**. Interconnection of remote stations located outside the serving wire center where the bridge to which they are to be connected is located will require interoffice channels at charges contained in **B103.4**.

- k. Access over each four-wire mid-link channel for Split Band Active Bridging is through voice grade interoffice channels at charges contained in **B103.4**. Additionally, mid-link channel connections are required as described in **B103.4**.

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B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Service Descriptions (Cont'd)

B103.2.3 Voice Grade Service - Series 2000 (Cont'd)

E. Telemetry/Alarm Bridging Service (TABS) (Cont'd)

2. Service Description

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

b. TABS is provided in the following arrangement:

Split Band, Active Bridging - A bridging arrangement providing for a four-wire (master station or mid-link channel) frequency split common port and multiple two-wire (remote station) ports intended for application in multipoint, voice frequency, data or tone signaling arrangements. Two-way (polling) communication between the master station and each remote station is intended.

B103.2.4 Wired Music Service - Series 6000

(Obsoleted 12-1-2020, Type D; not available for new installations, moves or transfers. The Company intends to discontinue this service on or after 12-1-2021.)

A. Series 6000 private line service provides for one-way audio transmission for use in connection with loudspeaker and sound recording equipment. Channels are furnished for operation on a two-point or multipoint basis for service 7 days per week, 24 hours per day, for a minimum period of one month. These channels are arranged for use with customer-provided station equipment only.

B. Channels for audio and wired music are furnished only directly to the customer originating the program material. The Company does not allocate charges between, nor collect charges from the patrons of the customer. The customer is responsible for the payment of all charges for channels furnished to him by the Company.

C. Audio Channels

1. Audio private line channels are specially equipped channels provided for the closed circuit (non-broadcast) transmission of voice and music signals in one direction only for operation on a two-point basis.

Any of the following arrangements may be provided as a two-point audio private line service:

a. Two local channels in the same wire center area connected together at the serving central office.

b. Two local channels not in the same wire center area connected by an interoffice channel.

c. One local channel feeding a music distribution amplifier when the music source is in the same wire center area as the distribution amplifier.

e. One local channel and an interoffice channel feeding a music distribution amplifier when the music source is not in the same wire center area as the distribution amplifier.

f. One interoffice channel connecting music distribution amplifiers in different wire center areas.

2. The various types of services furnished as audio channels are described as follows:

a. Type 6211 - A two-wire interface with effective two-wire facilities engineered for a 1000 Hz maximum loss of 12dB without equalization.

b. Type 6212 - A two-wire interface engineered for a 1000 Hz maximum loss of 12dB and equalized to + or - 1dB of the 1000 Hz loss from 100 to 5000 Hz.

c. Type 6213 - A two-wire interface engineered for a 1000 Hz maximum loss of 12dB and equalized to + or - 1dB of the 1000 Hz loss from 50 Hz to 8000 Hz.

Pages 6.1 and 6.2 are hereby deleted in their entirety and removed from this Guidebook.

M1 - Material appearing on this page previously appeared on page(s) 8 of this section.

M2 - Material previously appearing on this page now appears on page(s) 9.1 of this section.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 *Service Descriptions* (Cont'd)

B103.2.3 Wired Music Service - Series 6000 (Cont'd)

D. Wired Music Multipoint Distribution Channels

1. Wired music multipoint distribution private line channels are specially equipped channels provided for the closed circuit (non-broadcast) transmission of voice and music signals in one direction only for operation on a multipoint basis. (M1)
2. A wired music multipoint distribution service consists of one or more distribution amplifiers feeding multiple wired music local channels within a wire center area. Local channels and interoffice channels required to connect the music source to the wired music multipoint distribution system or to connect distribution amplifiers in separate wire centers are provided as two-point audio channels. (M1)
 - a. Distribution amplifiers provided by the Company are required to receive signals from a source provided by the customer and to transmit the appropriate signal level to the multiple wired music local channels which the amplifiers may feed. Distribution amplifiers are provided at the serving wire center. (M1)
 - b. Wired music local channels are furnished within a wire center area between the premises of the patrons of the wired music service and the distribution amplifier located in the serving wire center. (M1)
3. The various types of services furnished as wired music channels are described as follows: (M1)
 - a. Type 6215 - A two-wire interface with effective two-wire facilities engineered for a 1000 Hz maximum loss of 14dB without equalization. (M1)
 - b. Type 6216 - A two-wire interface engineered for a 1000 Hz maximum loss of 14dB and equalized to + or - 4dB of the 1000 Hz loss from 100 to 5000 Hz. (M1)
 - c. Type 6217 - A two-wire interface engineered for a 1000 Hz maximum loss of 14dB and equalized to + or - 4dB of the 1000 Hz loss from 50 Hz to 8000 Hz. (M1)

Page 7.1 is hereby deleted in its entirety and removed from this Guidebook.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Rate Terms and Conditions

B103.3.1 Application

A. Methods of Applying Rates

- 1. Additional point of termination of a Local Channel in Different Buildings on the Same Premises. (T)
 - (Obsoleted 01-01-87), Type B; Guidebook Reference Section B3.) (M1)
 - a. A charge, as provided in b., for extending a Local Channel and terminating the channel at a station location in a different building on the same premises shall apply in lieu of an additional Local Channel Charge when conditions and facilities permit, otherwise the local channel charge applies. (T)(M2)
 - b. When additional points of termination of a single private line service are located in different buildings on the same premises, the charge for the channel shall be based on the airline distance between each pair of buildings as specified in *this* Section. (T)(M2)
- 2. Additional Point of Termination in the Same Building (M2)
 - (Obsoleted 01-01-87), Type B; Guidebook Reference Section B3.) (M2)
 - A charge as provided in **B103.4** for extending a Local Channel and terminating the channel at a station location in the same building applies in lieu of an additional local channel charge. (T)(M2)
- 3. Same Building (M2)
 - (Obsoleted 01-01-87, Type D; available solely at the discretion of the Company for new service, additions, or transfer of service where spare capacity is available in existing cable facilities.) (M2)
 - When all station locations of a private line service are in the same building, the charge for same building charges as specified in *this* Section apply. (T)(M2)
- 4. Channels between Buildings on the Same Premises (M2)
 - (Obsoleted 01-01-87, Type D; available solely at the discretion of the Company for new service, additions, or transfer of service where spare capacity is available in existing cable facilities.) (M2)
 - When station locations of a private line service are located in different buildings on the same premises the charge for the channel shall be based on the airline distance between each pair of buildings when conditions and facilities permit. The charges are as specified in *this* Section. For channels routed via the central office the charge is as stated in **B103.4**. (T)(M2)
 - Where a supporting structure is necessary for the purpose of furnishing extension lines on the subscriber's premises, such supporting structure will be furnished by the subscriber as provided for "Construction on Private Property" in Section A5. (M2)
 - When the channel facility (wire or cable) is of sufficient length and/or the in-plant cost of circuit (wire or cable) facility renders the monthly rate inadequate, the customer may be required to pay a monthly rate of 3-1/4 percent (3.25%) of the in-plant cost of the facilities placed. (M2)
 - If the Company considers it appropriate and compensatory, existing facilities may be rated at 3-1/4 percent (3.25%) of the in-plant cost of the facilities to determine a monthly rate. The facilities may be offered for sale to the customer. (M2)

B103.3.2 Types Of Rates And Charges

- A.** The two types of rates and charges are monthly rates and nonrecurring charges and are described as follows: (T)(O)
 - 1. Monthly Rates (O)
 - Monthly rates are recurring charges that apply each month or fraction thereof that a service is provided. For billing purposes, each month is considered to have 30 days. (O)
 - Rates are subject to Company initiated changes. (O)
 - 2. Nonrecurring Charges (O)
 - Nonrecurring Charges are one-time charges that apply for a specific work activity. The three types of nonrecurring charges that apply are installation of service, installation of features and functions and service rearrangements. (O)
 - a. Installation of Service (O)
 - Nonrecurring charges apply for each service terminated at the customer's premises. For the installation of local channels when more than one of the same type of service, between the same locations, for the same customer is ordered and installed at the same time, one at each location is billed at the First Service Installed rate and the others are billed at the Additional Service Installed rate. The nonrecurring charges for the Installation of Services are set forth in B3.4 as Nonrecurring Charges for the Local Channel and Interoffice Channel rate elements. (O)
 - b. Nonrecurring charges apply for the installation of features and functions available with the various services. For some features and functions there is a lower charge if installed coincident with the service and a higher charge if installed subsequent to the service. (O)

M1 - Material previously appearing on this page now appears on page(s) 6 and 7 of this section.
 M2 - Material appearing on this page previously appeared on page(s) 1 of this section.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Rate Terms and Conditions (Cont'd)

B103.3.2 Types Of Rates And Charges (Cont'd)

A. (Cont'd)

2. Nonrecurring Charges (Cont'd)

c. Service Rearrangements

- (1) Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements or a change in the physical location of the point of termination at a customer premises. Changes which result in the establishment of new minimum period obligations are treated as disconnects and starts. Changes in the physical location of the point of termination are treated as moves and are described and charged for as set forth in **B103.4**.

The charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves actual physical change to the service.

Administrative changes will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Private Line Service to the same entity (i.e., customer remains responsible for all outstanding indebtedness for the service). Administrative changes are as follows:

- Change of customer name (i.e., the customer of record does not change but rather the customer of record changes name),
- Change of customer or customer's premises address when the change of address is not a result of a physical relocation of equipment.
- Change in billing data (name, address or contact name or number).
- Change of jurisdiction, e.g., intraLATA to intrastate, intrastate to interstate, etc.

- (2) All other service rearrangements will be charged for as follows:

- If the change involves the addition of other customer designated premises to an existing multipoint service, the nonrecurring charge for the local channel and bridging rate elements being added will apply. Nonrecurring charges for interoffice channel mileage and/or optional features may also apply.
- If the change involves the addition of other customer designated premises to an existing two-point service, resulting in a multipoint circuit configuration, the nonrecurring charge for the local channel and bridging rate elements being added will apply. Nonrecurring charges for interoffice channel mileage and/or optional features may also apply.
- If the change involves the disconnection of a customer designated premises from an existing multipoint circuit resulting in a two-point circuit configuration, no charges will apply.
- If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.
- If the change involves changing the type of signaling on a voice grade service the subsequent, nonrecurring charge will apply for the new type signaling. The charge will apply per service termination affected.
- For rearrangements and all other activities involving physical changes to the service provided or the addition of optional features without separate nonrecurring charges, a charge equal to a local channel rate element nonrecurring charge will apply. Only one such charge will apply per service order, per change.
- For a change of customer of record, where no specific transfer of service charge is stated, and for all other activities involving no physical changes, the following charges will apply: (1) if the request is for multiple circuits of the same type, a charge equal to one "First" Local Channel nonrecurring charge applies, (2) if the request is for only one circuit, a charge equal to one "Additional" Local Channel nonrecurring charge applies, (3) if the request is for multiple circuits of different types, charges will be applicable for each type of circuit according to the same guidelines in (1) and (2).

B103.3.3 Rate Categories

- A. Following are the basic rate categories which apply to Private Line service.

1. Local Channels

- a. A local channel provides for a communications path between the demarcation point at a customer premises and the serving wire center of that premises. One local channel charge applies per channel termination.
- b. When service is provided by non-wire center connected channels, a non-wire center connected channel charge applies in lieu of local channel charges.

2. Interoffice Channels

This rate category provides for the transmission facilities between serving wire centers associated with two customer premises, between serving wire centers associated with a customer premises and a Company hub, or between two Company hubs.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Rate Terms and Conditions (Cont'd)

B103.3.3 Rate Categories (Cont'd)

A. (Cont'd)

3. Non-Wire Center Connected Channels

Served Direct channels are provided on a direct basis and are limited to one airline mile in length. These channels will be provided only at the option of the Company.

(Obsolated, See Section **B103.4** for charges for channels.)

4. Optional Features and Functions

This rate category provides for features and functions which may be added to a service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of the performance characteristics which may be obtained. This category includes a and b:

a. Hub Functions

A hub is a Company designated wire center where bridging or multiplexing functions are performed i.e., connecting three or more customer premises in a multipoint arrangement or channelizing analog or digital services requiring a lower capacity or bandwidth.

b. Provides for such things as signaling, conditioning, transfer arrangements, protection switching, etc.

B103.3.4 Moves

A. A move involves a change in the physical location of one of the following:

- 1. The point of interface at the customer premises.
- 2. The customer's premises.

B. The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

1. Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one-half the nonrecurring (i.e., installation) charge for the affected service termination at the customer's premises. There will be no change in the minimum period requirements. If a move is made at the same time a service rearrangement is made, the total charge will never exceed a full nonrecurring charge for the basic service.

2. To a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established at the new location. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

B103.3.5 Determination Of Mileage

A. To determine Interexchange Mileage for purposes of developing the rate distance between any two rate centers proceed as follows:

- 1. Obtain the "V" and "H" coordinates for each rate center, as listed in the General Exchange Guidebook, Section A18.
- 2. Obtain the difference between the "V" coordinates of the two rate centers. Obtain the difference between the "H" coordinates.

The difference is always obtained by subtracting the smaller coordinate from the larger coordinate.

- 3. Square each difference obtained in 2.
- 4. Add the squares of the "V" difference and the "H" difference obtained in 3.
- 5. Divide the sum of the squares obtained in 4, by 10.

- 6. Obtain the square root of the result obtained in 5. This is the rate distance in miles (fractional miles being considered as full miles.)

EXAMPLE: The rate distance is required between two rate centers in Kentucky, Rate Centers A and B.

	V	H
Rate Center A	7518	2446
Rate Center B	8167	2367
Difference	649	79

649 squared = 649 x 649 = 421,201
 79 squared = 79 x 79 = 6,241

Sum of squares 427,442

427,44210 = 42,744.2

Square root of 42,744.2 = 206.7 or 207 miles

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Rate Terms and Conditions (Cont'd)

B103.3.5 Determination Of Mileage (Cont'd)

B. When station locations of a private line service are located in different wire center serving areas, interoffice channel charges apply. Charges are based on the direct airline distance measured between the serving wire centers. To determine Interoffice mileage for purposes of developing rate distance between any two wire centers (intraexchange or interexchange) proceed as follows:

1. Obtain the "V" and "H" coordinates for each wire center, as listed in the National Exchange Carrier Association (NECA) Tariff, FCC #4.
2. through 5. (see B103.1.5.A)
6. Obtain the square root of the result obtained in 5. This fractional number is the rate distance in miles. Round up to the desired quarter, half or whole mile as specified by each service.

EXAMPLE: The rate distance is required between City One and City Two.

	V	H
City One	7260	2083
City Two	7364	1865
Difference	104	218

Squared = 10,816 + 47,524 = 58,340

58,340 divided by 10 = 5834

Square root of 5834 = 76.38 = 77 Airline miles

- C.** When a private line is furnished over facilities which the Company elects to provide on a direct basis and is not routed through a central office, one two-point channel charge from B103.4 will apply. The arrangement is limited to channels not more than one airline mile in length.
- D.** For the purpose of applying multipoint charges, the bridging or hubbing locations are determined by that combination of airline distances connecting the serving wire center which will produce the lowest interoffice mileage charges. Bridging charges apply when three or more channels connect at the same location.
- E.** For Series 1000, 2000 and 6000 channels the customer may specify the sequence in which the service points are to be connected in which case the rate mileage is the shortest airline mileage determined in accordance with C., which will connect the wire centers of the service points in the specified sequence.

B103.4 Rates And Charges

B103.4.1 Series 1000¹ – Sub Voice Grade Service

A. Interoffice Channels²

1. Fixed and Mileage Charges applicable

	Fixed Monthly Charge	Monthly Charge Per Mile	Nonrecurring Charge Per Channel	USOC
a. 1 thru 8 Miles	\$3,110.00 (I)	\$278.00 (I)	-	3LBAS
b. 9 thru 25 Miles	3,110.00 (I)	278.00 (I)	-	3LBAS
c. Over 25 Miles	3,110.00 (I)	278.00 (I)	-	3LBAS

B. Interexchange - Type 1050 and 1051
(Obsoleted Type B)

1. Half Duplex

	Monthly Rate	USOC
a. (DELETED)		
b. Interoffice Channel		
(1) 1st 1/4 mile	\$25.15	1LYD+
(2) Each additional 1/4 mile or fraction thereof	2.30	1L3A+

Note 1: Metallic interoffice channels are no longer available for new installations, moves or transfers. Metallic interoffice facilities are in continually decreasing supply due to modernization programs that replace existing metallic interoffice with non-metallic facilities such as fiber optics.

Note 2: For method of determining mileage, see B3.3.3.A.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.4 Rates and Charges (Cont'd)

	Monthly Rate	USOC		
B103.4.2 Series 1100 - Sub Voice Grade Service			(M2)	
A. Intraexchange - Type 1150 and 1151			(T)(M2)	
(Obsoleted Type B)			(M2)	
1. Half Duplex			(T)(M2)	
a. (DELETED)			(T)(M2)	
b. Interoffice Channel			(T)(M2)	
(1) 1st 1/4 mile	\$49.34	1LYD+	(T)(M2)	
(2) Each additional 1/4 mile or fraction thereof	2.10	1L3A+	(T)(M2)	
c. Each additional point of termination of a local channel in a different building on the same premises			(T)(M2)	
(1) Per 1/4 mile or fraction thereof	4.37	1L3A+	(T)(M2)	
(2) Type 1150 - Minimum charge	8.73	NA	(T)(M2)	
(3) Type 1151 - Minimum charge	8.73	NA	(T)(M2)	
d. (DELETED)			(T)(M2)	
e. Two-point service, different building, same premises			(T)(M2)	
(1) Per 1/4 mile or fraction thereof	4.37	1L3AY	(T)(M2)	
(2) Type 1150 - Minimum charge	8.73	NA	(T)(M2)	
(3) Type 1151 - Minimum charge	8.73	NA	(T)(M2)	
f. Two-point service, same building			(T)(M2)	
(1) Type 1150	8.73	1LYDB	(T)(M2)	
(2) Type 1151	8.73	1L6BB	(T)(M2)	
2. Full Duplex			(T)(M2)	
a. (DELETED)			(T)(M2)	
b. Interoffice Channel			(T)(M2)	
(1) 1st 1/4 mile	\$49.34	1LYK+	(T)(M2)	
(2) Each additional 1/4 mile or fraction thereof	2.10	1L6D+	(T)(M2)	
c. (DELETED)			(T)(M2)	
d. (DELETED)			(T)(M2)	
e. Two-point service, different building, same premises			(T)(M2)	
(1) Per 1/4 mile or fraction thereof	4.37	1L6DY	(T)(M2)	
(2) Type 1150 - Minimum charge	8.73	NA	(T)(M2)	
(3) Type 1151 - Minimum charge	8.73	NA	(T)(M2)	
f. Two-point service, same building			(T)(M2)	
(1) (DELETED)			(T)(M2)	
(2) Type 1151	8.73	1L6DB	(T)(M2)	
g. Each additional point of termination in same building for two-point service in e. and f.			(T)(M2)	
(1) Type 1150	-	8.73	1L6DA	(T)(M2)
(2) Type 1151	-	8.73	1L6DA	(T)(M2)

M1 - Material previously appearing on this page now appears on page(s) 2, 2.1 and 8.3 of this section.
M2 - Material appearing on this page previously appeared on page(s) 3 and 4 of this section.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.4 Rates and Charges (Cont'd)

B103.4.2 Series 1100 - Sub Voice Grade Service

B. Local Area Data Channels

(Obsoleted 10-26-87, Type B) In consideration of the decreasing supply of metallic facilities required to provide Local Area Data Channels, the Company will convert a customer's service requiring such facilities to a Voice Grade Service or Synchronet service and waive the nonrecurring charges associated with the change. This applies to customers where metallic facilities are being replaced with non-metallic facilities, or a customer may elect to make this change at any time prior to a modernization program that would eliminate the availability of metallic facilities.

Local Area Data Channels are intended for baseband transmission of digital data signals between two points on the same premises or between two different premises within the same serving wire center area not to exceed six (6) cable route miles.

1. The rates and charges specified for Local Area Data Channels provide for the furnishing of service when suitable facilities are available. When special construction is necessary to provide these channels a charge based on the cost incurred will apply in addition to the rates and charges for the channels.

2. Transmission specifications for local area data channels are dependent upon the route length of the facilities utilized to provide the service as follows:

Maximum End-To-End Facility Length In Route Miles	Maximum Insertion Loss At 1000 Hz, In dB ¹
1	9.0
2	13.5
3	17.0
4	20.0
5	23.0
6	25.5

3. Type 1180 is provided as a 2-wire interface with effective 2-wire facilities.

4. Type 1182 is provided as a 4-wire interface with effective 4-wire facilities.

	Installation Charge	Monthly Rate	USOC
5. Rates - Intraexchange			
a. Local Channel			
(1) Each			
(a) Type 1180	\$71.41	\$17.66	1L6GJ
(b) Type 1182	71.41	35.57	1L6GJ
6. Rates - Type 1180 and 1182 (Same Continuous Property Different and Same Building Channels) (Obsoleted 01-01-87, Type B)			
a. Two-point service			
(1) Different buildings same premises ²			
(a) Per 1/4 mile or fraction thereof	25.41	4.37	1L6GY
(b) Minimum charge	-	.73	NA
(2) Same building			
(a) Charge	25.41	8.73	1L6GB
Note 1: Insertion loss is referenced to 135 OHM resistive terminations at each end.			
Note 2: The Installation Charge is per channel.			

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.4 Rates and Charges (Cont'd)

B103.4.3 Series 1200 - Sub Voice Grade Service

A. Intraexchange - Type 1204 and 1205 (Same Continuous Property Different and Same Building Channels)

- 1. Each additional point of termination of a local channel
(Obsoleted 01-01-87, Type B)

	Installation Charge	Monthly Rate	USOC
a. In a different building on the same premises			
(1) Per 1/4 mile or fraction thereof	-	\$4.37	1LM++
(2) Minimum charge	-	8.73	NA
2. (DELETED)			
3. Two-point service (Obsoleted 01-01-87, Type D; available solely at the discretion of the Company for new service, additions, or transfers of service where spare capacity is available in existing cable facilities.)			
a. Different buildings, same premises			
(1) Per 1/4 mile or fraction thereof ^{1,2}	\$25.41	4.37	1LM++
(2) Minimum charge Type 1204 or 1205 ¹	-	8.73	NA
b. Same building			
(1) Type 1204	25.41	8.73	1LM++
(2) Type 1205	25.41	8.73	1LM++
4. Each additional point of termination (Obsoleted 01-01-87, Type B; Guidebook Reference Section B3.)			
a. In the same building for two-point service in B103.2.1.E.2.c or d.			
(1) Type 1204	-	8.73	1LM++
(2) Type 1205	-	8.73	1LM++
5. Local Channels			

	Monthly Rate	Nonrecurring Charge		USOC
		First	Additional	
a. Per point of termination				
(1) Type 1204	\$2,481.00 (I)	\$561.00	\$224.40	P1JAX
(2) Type 1205	2,262.00 (I)	422.40	158.40	P1JHX

Note 1: The rates and charges in this Guidebook for channels between buildings on the same premises are applicable only for those facilities in place as of June 5, 1983. On premises cable placed after June 5, 1983 will be provided based on cost.

Note 2: The installation charge is per channel.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.4 Rates and Charges (Cont'd)

B103.4.4 Series 2000 - Voice Grade Service

A. (DELETED)

- 1. Intraexchange - Same Continuous Property Different and Same Building Channels

		Monthly Rate	USOC
a.	Each additional point of termination of a local channel in a different building on the same premises (Obsoleted 01-01-87, Type B)		
	(1) Charges		
	(a) Per 1/4 mile or fraction thereof	\$3.50	1LM+G
	(b) Minimum Charge	6.98	NA
b.	Each additional point of termination of a local channel (Obsoleted 01-01-87, Type B)		
	(1) In the same building		
	(a) Charge	6.98	2SE++
		Installation Charge	
c.	Two-point service different buildings same premises (Obsoleted 01-01-87, Type D; available solely at the discretion of the Company for new service, additions, or transfers of service where spare capacity is available in existing cable facilities.)		
	(1) Per 1/4 mile or fraction thereof		
	(a) Half Duplex ^{1,2}	\$66.40	3.50
	(b) Duplex ^{1,2}	66.40	3.50
	(c) Minimum Charge	-	6.98
d.	Two-point service (Obsoleted 01-01-87, Type D; available solely at the discretion of the Company for new service, additions, or transfers of service where spare capacity is available in existing cable facilities.)		
	(1) Same building		
	(a) Half Duplex	66.40	6.98
	(b) Duplex	66.40	6.98
e.	Each additional point of termination (Obsoleted 01-01-87, Type B, Guidebook Reference Section B3.)		
	(1) In the same building for two-point service in B103.2.2.B.1.c. or d		
	(a) (DELETED)		
	(b) Duplex	-	3.50

B. Local Channels

		Monthly Rate	Nonrecurring Charge		USOC
			First	Additional	
1.	Voice Grade, Per point of termination				
a.	Voice				
	(1) Type 2230	\$6,829.00 (I)	\$409.20	\$151.00	P2JUX
	(2) Type 2231	6,829.00 (I)	310.00	115.00	P2JHX
	(3) Type 2432	10,255.00 (I)	360.00	150.00	P2JQX
	(4) Type 2434	2,122.00 (I)	140.00	74.00	P2JGX
	(5) Type 2435	10,255.00 (I)	435.60	171.60	P2JWX
	(6) Type 2261	7,943.00 (I)	666.60	303.60	P2JLX
	(7) Type 2462	9,458.00 (I)	660.00	297.00	P2JRX
b.	Data				
	(1) Type 2463	10,832.00 (I)	495.00	211.20	P2JMX
	(2) Type 2464	10,832.00 (I)	495.00	211.20	P2JNX

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.4 Rates and Charges (Cont'd)

B103.4.4 Series 2000 - Voice Grade Service (Cont'd)

C. Interoffice Channels¹

1. Types 2463 and 2464

	Month to Month	Nonrecurring Charge	USOC
(a) Fixed	\$3,700.00 (I)	\$92.00	3LBMF
(b) Each mile or fraction thereof	224.00 (I)	-	3LBMA
2. Types 2230, 2231, 2432, 2434, 2435, 2261 and 2462			
(a) Fixed	9,863.00 (I)	92.00	3LBBS
(b) Each mile or fraction thereof	739.00 (I)	-	3LBSS

D. Optional Features And Functions

1. Bridging

Bridging charges are applicable where more than two Local Channels, or one or more Local Channels and more than one Interoffice Channel, or more than one Local Channel and one Interoffice Channel are bridged or hubbed at the same wire center. No additional bridging charges are applicable for Series 1000, Types 1204 and 1205.

	Month to Month	Nonrecurring Charge	USOC
a. Voice Bridging			
(1) Per Port			
(a) Two-Wire (Type 2230)	\$2,598.00 (I)	\$39.60	BQ9
(b) Four-Wire (Type 2435)	3,395.00 (I)	39.60	BQ9
b. Data Bridging			
(1) Per Port			
(a) Four-Wire (Types 2463 and 2464)	4,903.00 (I)	42.24	BQ9
c. (DELETED)			
d. (DELETED)			
e. Telemetry and Alarm Bridging - Split Band, Active Bridging			
(1) Common Equipment, per central office			
(a) First bridging shelf, capacity of 48 two-wire connections	9,798.00 (I)	370.00	XW1
(b) Additional bridging shelf, capacity of 56 two-wire connections installed subsequent to the first bridging shelf	9,798.00 (I)	335.00	XW2
(c) Additional bridging shelf, capacity of 56 two-wire connections installed at the same time as the first bridging shelf	4,958.00 (I)	205.00	XW8
(2) Channel connections, per channel connected			
(a) Remote station channel connection	383.00 (I)	31.00	XW3
(b) Mid-link channel connection, first channel	972.00 (I)	41.00	XW4
(c) Mid-link channel connection, subsequent channels	972.00 (I)	41.00	XW5

2. Signaling Arrangements

Signaling arrangements are provided at the customer's option to arrange channels for suitable signaling. Signaling is required on all off-premises extension channels and tie line channels associated with PBX (or similar) systems.

a. Per local channel

	Monthly Rate	Nonrecurring Charge		USOC
		Initial	Subsequent	
(1) Ringdown-Manual	\$1,580.00 (I)	\$50.16	\$ 244.20	SL3
(2) Ringdown-Automatic	1,448.00 (I)	18.48	72.60	SL5
(3) E & M Type	1,448.00 (I)	58.08	224.40	SLM
(4) Type A (0-199 ohms)	854.00 (I)	54.12	151.80	SAL
(5) Type B (200-899 ohms)	854.00 (I)	48.84	151.80	SAU
(6) Type C (900 or more ohms)	383.00 (I)	15.84	151.80	SAY

Note 1: For method of determining mileage, see B103.3.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.4 Rates and Charges (Cont'd)

B103.4.4 Series 2000 - Voice Grade Service (Cont'd)

D. Optional Features And Functions (Cont'd)

3. Conditioning (Voice Grade Services)

a. Conditioning provides more specific transmission characteristics for data services. There are two types of C-conditioning and one type of D-conditioning, each with different technical specifications. C-Type conditioning controls attenuation distortion and envelope delay distortion. D-Type conditioning controls the signal to C-notched noise ratio and intermodulation distortion.

Conditioning is charged for on a per Local Channel basis for two-point and multipoint service. For two-point services the parameters apply to each service. For multipoint services the parameters apply to any path between any two service points.

b. The types and description of the available conditioning options are as follow:

Type Conditioning	Frequency Response Specification	Envelope Delay Distortion Specification	Non-Linear Distortion	
			2nd Order Distortion	3rd Order Distortion
C1 (two-point or multipoint)	300-2700 Hz, -2dB to +6dB. 1000-2400 Hz, -1dB to +3dB. 300-3000 Hz, -3dB to +12dB.	1000-2400 Hz, less than 1000 microseconds		
C2 (two-point or multipoint)	300-3000 Hz, -2dB to +6dB. 500-2800 Hz, -1dB to +3dB.	1000-2600 Hz, less than 500 microseconds 600-2600 Hz, less than 1500 microseconds 500-2800 Hz, less than 3000 microseconds		
	C-Notched Noise			
D1 (two-point)	Noise level 28dB below signal level		35dB below signal level	40dB below signal level

c. When a channel is equipped with Type D1 conditioning and is utilized for voice communications, the Company does not undertake to represent that the channel will be suitable for such voice transmission.

	Monthly Rate	Nonrecurring Charge		USOC
		Initial	Subsequent	
d. C-Type Conditioning				
C-Type Conditioning is available for Types 2463 and 2464.				
(1) C-Types of Conditioning per local channel				
(a) C1-Type	\$383.00 (I)	\$13.20	\$88.44	P2W
(b) C2-Type	383.00 (I)	27.72	100.32	P3W
e. D-Type Conditioning				
D-Type Conditioning is available for Types 2463 and 2464.				
(1) D-Type Conditioning per local channel				
(a) D1-Type	383.00 (I)	21.12	93.72	QHA

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.4 Rated and Charges (Cont'd) (T)

B103.4.4 Series 2000 - Voice Grade Service (Cont'd) (T)

E. Interexchange - Additional Points of Termination (T)

(Obsoleted 01-01-87, Type B; Guidebook Reference Section B3.)

I. (DELETED) (T)

2. Each additional point of termination of a local channel (T)

a. In the same building (T)

(I) Minimum Charge (T)

**Monthly
Rate**

USOC

\$8.73

2SE++

B103.4.5 Series 6000 – Wired Music Service (T)(M)

(Obsoleted 09-02-80, Type D; not available for new installations, moves or transfers. Existing customers may add channels only to the extent that they are available.) (M)

A. Charges for a channel wholly within a building or between buildings on the same premises (M)

1. For 500 feet or fraction thereof, (M)

(a) Route measurement

**Installation
Charge¹
\$66.40**

**Monthly
Rate
\$ 0.77**

**USOC
1LGRE**

(T)
(M)

Note 1: The installation charge is per channel.

(T)(M)
(M2)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.4 Rates and Charges (Cont'd)

B103.4.5 Series 6000 - Wired Music Service (Cont'd)

	Monthly Rate	Nonrecurring Charge		USOC
		First	Additional	
A. Local Channels				
Per point of termination				
1. Type 6211	\$ 4,116.00 (I)	\$620.40	\$264.00	P6JAX
2. Type 6212	5,139.00 (I)	719.40	349.80	P6JBX
3. Type 6213	5,775.00 (I)	732.60	369.60	P6JCX
4. Type 6215	4,025.00 (I)	620.40	264.00	P6JEX
5. Type 6216	5,139.00 (I)	719.40	349.80	P6JNX
6. Type 6217	5,775.00 (I)	732.60	369.60	P6JGX

B. Interoffice Channels²

Fixed and Mileage Charges applicable

	Fixed Monthly Charge	Monthly Charge Per Mile	Nonrecurring Charge Per Channel	USOC
1. Wired Music - Series 6000 3.0 kHz, Types 6211 and 6215				
1 thru 8 Miles	\$5,697.00 (I)	\$195.00 (I)	\$75.00	3LBBS
9 thru 25 Miles	5,697.00 (I)	195.00 (I)	75.00	3LBBS
Over 25 Miles	5,697.00 (I)	195.00 (I)	75.00	3LBBS
2. Wired Music - Series 6000 5 kHz, Types 6212 and 6216				
1 thru 8 Miles	5,904.00 (I)	383.00 (I)	67.00	3LBDS
9 thru 25 Miles	5,904.00 (I)	383.00 (I)	67.00	3LBDS
Over 25 Miles	5,904.00 (I)	383.00 (I)	67.00	3LBDS
3. Wired Music - Series 6000 8 kHz, Types 6213 and 6217				
1 thru 8 Miles	7,954.00 (I)	646.00 (I)	67.00	3LBES
9 thru 25 Miles	7,954.00 (I)	646.00 (I)	67.00	3LBES
Over 25 Miles	7,954.00 (I)	646.00 (I)	67.00	3LBES

C. Optional Features And Functions

1. Bridging

Bridging charges are applicable where more than two Local Channels, or one or more Local Channels and more than one Interoffice Channel, or more than one Local Channel and one Interoffice Channel are bridged or hubbed at the same wire center.

	Month to Month	Nonrecurring Charge	USOC
Wired Music Bridges (Series 6000)			
Distribution Amplifiers			
a. Per Port			
(1) Each	\$2.64	\$33.00	6LE

Note 1: Rates and Charges in paragraphs B103.4.5.E were obsoleted on December 1, 2020.

Note 2: For method of determining mileage, see B103.3.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.5 Non-Wire Center Connected Channels

(T)

(Obsoleted 9/1/03, Type B – Not available for new installations, additions or on transfers of service to new locations).

A. Served Direct

- 1. Not routed via the central office, limited to one airline mile or less

	Monthly	Nonrecurring		
	Rate	First	Additional	USOC
(a) Series 1000	\$ 13.20	\$ 561.00	\$ 224.40	SDD1X
(b) Series 2000	16.50	561.00	224.40	SDD2X
(c) Series 6000	23.10	561.00	224.40	SDD6X

B103.6 Series 10000 Channels (Entrance Facilities)

(Obsoleted 02-15-90, Type D; not available for new installations, moves or transfers. Existing customers may add channels only to the extent that they are available.)

A. Types and Description

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

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

B. Terms and Conditions

In addition to the Terms and Conditions set forth in Section B2., the following Terms and Conditions apply to Series 10000 channels as specified following:

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

C. Rates - Monthly Service

Type 10001

(Rates for entrance facilities will be based on the costs incurred on a case-by-case basis.)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS**B103.7 Reserved For Future Use****B103.8 Reserved For Future Use****B103.9 Reserved For Future Use****B103.10 Description Of Service And Rates - Customer Operating Center Service (COC)**

Obsoleted 02-15-90, Type D; customers may continue to activate channels within their existing size of service cable.

B103.10.1 General

- A. Customer Operating Center Service (COC) is designed for use by customers who utilize large, dedicated quantities of local channels of the types described in B103.10.1.K.2 between their location and the serving wire center. (T)
- B. Customer Operating Center Service is provided to customers at their option. The rates for COC service are billed directly by the Company to the customer of COC service.
- C. For the purposes of this *Guidebook*, a Customer Operating Center is defined as a customer location: (T)
 - 1. owned or leased by the customer over which the customer has control and provides security.
 - 2. from which the customer furnishes and administers services to multiple clients in a geographical area. The term "Patron" denotes a subscriber to the services offered by the owner or lessee of a Customer Operating Center.
 - 3. at which a system, or a group of systems, owned or leased by the customer whose operation is to receive signals and messages which are recorded, maintained, and supervised by the customer.
 - 4. at which the customer has regularly scheduled observers and 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.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.10 Description Of Service And Rates - Customer Operating Center Service (COC) (Cont'd)

B103.10.1 General (Cont'd)

- D. COC service is provided by using a complement of cable pairs in the size and length specified in B103.10.1.K.1.
- E. A monthly rate applies for each complement of cable pairs of a specific size whose airline distance is 2/4 mile or more.
- F. The customer will provide in advance a forecast of the complement of cable pairs he wishes to have planned for his use and agrees to payment of the charges for the complement of cable pairs whose airline distance is 2/4 mile or more whether circuits are activated or not.
- G. The monthly rate for each complement of cable pairs is based on the airline distance between the customer's operating center and its normal serving wire center. The maximum distance for COC service is one and a quarter mile.
- H. In addition to the monthly rate for the complement of cable pairs, a monthly rate applies for each local channel activated within the complement of cable pairs.
- I. **Basic Termination Liability**
A basic termination liability will apply for any facility placed new specifically for a customer for which no reuse is foreseen if the initial use is discontinued.
The termination liability period is 5 years.
The amount of the termination liability is equal to the estimated amount for:
 1. Cost of the installed facilities provided including costs incurred for rearrangements of existing facilities and/or construction of new facilities as appropriate, less net salvage. Installed cost includes the cost of:
 - a. equipment and materials provided or used,
 - b. engineering, labor and supervision,
 - c. transportation,
 - d. rights of way.
 2. Any other costs associated with the particular situation.
 3. The termination liability defined preceding is reduced by 1/60th for each month of a 5 year period that the complement of cable pairs is in service from the date it is placed in service for a specific customer.
- J. A service charge applies for a connection move or change of each local channel activated within the complement of cable pairs. The service charges are as specified in B103.10.1.L.1.e.
- K. **Monthly Rates**
 1. Per complement of cable pairs
 - a. Distance in 1/4 Mile or Fraction Thereof
 - (1) **(DELETED)**

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

**B103.10 Description Of Service And Rates - Customer Operating Center Service (COC)
(Cont'd)**

B103.10.1 General (Cont'd)

K. Monthly Rates (Cont'd)

- 1. Per complement of cable pairs (Cont'd)
 - a. Distance in 1/4 Mile or Fraction Thereof (Cont'd)

	Monthly Rate	USOC	(T)
(2) Service Cable Size – 100 Pairs			
(a) 1/4 mile	-	1LZ1A	
(3) Service Cable Size - 200 Pairs			
(a) 1/4 mile	-	1LZ2A	
(4) Service Cable Size – 300 Pairs			
(a) 1/4 mile	-	1LZ3A	
(5) (DELETED)			(D)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

**B103.10 Description Of Service And Rates - Customer Operating Center Service (COC)
(Cont'd)**

B103.10.1 General (Cont'd)

K. Monthly Rates (Cont'd)

	Monthly Rate	USOC	
1. Per complement of cable pairs (Cont'd)			(T)
a. Distance in 1/4 Mile or Fraction Thereof (Cont'd)			
(6) (DELETED)			
(7) (DELETED)			
(8) (DELETED)			(D)
2. Per Local Channel Activated			
a. Local Channel Provided Within A Cable			
(1) Type Of Local Channel Activated - 1204			
(a) 1/4 mile	3.50	1LZ++	
(b) 1/2 mile	3.50	1LZ++	
(c) 3/4 mile	3.50	1LZ++	
(d) 4/4 mile	3.50	1LZ++	
(e) 5/4 mile	3.50	1LZ++	

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

**B103.10 Description Of Service And Rates - Customer Operating Center Service (COC)
(Cont'd)**

B103.10.1 General (Cont'd)

K. Monthly Rates (Cont'd)

2. Per Local Channel Activated (Cont'd)

a. Local Channel Provided Within A Cable (Cont'd)

(2) Type Of Local Channel Activated - 1205

	Monthly Rate ²	USOC	
(a) 1/4 mile	\$ 3.50	1LZ++	(1)
(b) 1/2 mile	3.50	1LZ++	(1)
(c) 3/4 mile	3.50	1LZ++	(1)
(d) 4/4 mile	3.50	1LZ++	(1)
(e) 5/4 mile	3.50	1LZ++	(1)

(3) Type of Local Channel Activated - 2106 and 2107

(a) See GSST Section A108. for rates.	-	NA	
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(4) Type Of Local Channel Activated - 2463 ¹

(a) 1/4 mile	23.91	1LZ++	(1)
(b) 1/2 mile	25.81	1LZ++	(1)
(c) 3/4 mile	26.57	1LZ++	(1)
(d) 4/4 mile	28.46	1LZ++	(1)
(e) 5/4 mile	30.74	1LZ++	(1)

(5) Type Of Local Channel Activated - 2464¹

(a) 1/4 mile	51.61	1LZ++	(1)
(b) 1/2 mile	53.13	1LZ++	(1)
(c) 3/4 mile	54.65	1LZ++	(1)
(d) 4/4 mile	56.93	1LZ++	(1)
(e) 5/4 mile	58.45	1LZ++	(1)

(6) Type Of Local Channel Activated - 2230

(a) 1/4 mile	3.50	1LZ++	(1)
(b) 1/2 mile	3.50	1LZ++	(1)
(c) 3/4 mile	3.50	1LZ++	(1)
(d) 4/4 mile	4.47	1LZ++	(1)
(e) 5/4 mile	7.51	1LZ++	(1)

Note 1: These local channels are provided with a four-wire facility (2 pairs). The total number of all types of local channels that may be activated within a complement of cable pairs is limited by the number of these types of local channels.

Note 2: Rates are effective with normal billing cycles beginning on or after *May 22, 2004*. (C)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

**B103.10 Description Of Service And Rates - Customer Operating Center Service (COC)
(Cont'd)**

B103.10.1 General (Cont'd)

K. Monthly Rates (Cont'd)

- 2. Per Local Channel Activated (Cont'd)
 - a. Local Channel Provided Within A Cable (Cont'd)
 - (7) Type Of Local Channel Activated - 2261

	Installation Charge	Monthly Rate ²	USOC	
(a) 1/4 mile	\$ -	\$ 3.50	1LZ++	(I)
(b) 1/2 mile	-	3.50	1LZ++	(I)
(c) 3/4 mile	-	3.50	1LZ++	(I)
(d) 4/4 mile	-	4.47	1LZ++	(I)
(e) 5/4 mile	-	7.51	1LZ++	(I)
(8) Type Of Local Channel Activated - 2462 ¹				
(a) 1/4 mile	-	23.91	1LZ++	(I)
(b) 1/2 mile	-	25.81	1LZ++	(I)
(c) 3/4 mile	-	26.57	1LZ++	(I)
(d) 4/4 mile	-	28.46	1LZ++	(I)
(e) 5/4 mile	-	30.74	1LZ++	(I)

L. Nonrecurring Charges

1. Service Charge Per Local Channel Activated

The service charge for the connection or change of each local channel activated within a complement of cable pairs is as follows:

- a. The term Service Charge as specified herein is defined as the nonrecurring charge or charges applying to the ordering, installing, rearranging and furnishing of channels for extension lines. Service charges are categorized as:
 - (1) Service Ordering Charge
 - (2) Visit Charge
 - (3) Channel Connecting Charge
- b. Service Ordering Charge
 - (1) The Service Ordering Charge applies per customer request for work performed by the Company in connection with the receiving, recording and processing the customer's request for local channels to be installed at the same time.

Note 1: These local channels are provided with a four-wire facility (2 pairs). The total number of all types of local channels that may be activated within a complement of cable pairs is limited by the number of these types of local channels.

Note 2: Rates are effective with normal billing cycles beginning on or after *May 22, 2004*. (C)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

**B103.10 Description Of Service And Rates - Customer Operating Center Service (COC)
(Cont'd)**

B103.10.1 General (Cont'd)

L. Nonrecurring Charges (Cont'd)

1. Service Charge Per Local Channel Activated (Cont'd)

b. Service Ordering Charge (Cont'd)

(2) The term "per customer request" as specified preceding means all work or service ordered by the customer to be performed or provided at the same time. Only one service ordering charge applies when more than one local channel or types of local channels is ordered at the same time. When two or more types of local channels are ordered on the same customer request the higher charge applies.

c. Visit Charge

A Visit Charge applies for connecting or changing Types 2463, 2464, and 2230 local channel only. Only one Visit Charge applies when more than one Type Local Channel is ordered to be provided at the same time.

d. Channel Connecting Charge

The Channel Connecting Charge covers work associated with activating a local channel in a complement of cable pairs. The charge applies for each channel activated.

e. Schedule of Charges

(1) Service Ordering Charge, per customer request

	Charge¹	USOC	(T)
(a) Type 1204 and 1205	<i>\$65.78</i>	NA	(I)
(b) Type 2463, 2462 and 2464	<i>221.38</i>	NA	(I)
(c) Type 2230 and 2261	<i>221.38</i>	NA	(I)
(2) Visit Charge			
(a) Type 2463, 2464 and 2230	<i>26.25</i>	NA	(I)
(3) Channel Connecting Charge			
(a) Type 2463, 2462 and 2464	<i>151.80</i>	NA	(I)
(b) Type 2230 and 2261	<i>86.02</i>	NA	(I)
(c) Type 1204 and 1205	<i>24.04</i>	NA	(I)

Note 1: Rates are effective with normal billing cycles beginning on or after June 14, 2003.

(N)