

ACCESS SERVICE

7. Special Access Service

MAPPING OF BASIC SERVICE ELEMENTS

The following is a list of the Bell Atlantic Telephone Companies Open Network Architecture (ONA) Special Access optional features which were presented in the NYNEX ONA Plan as Basic Service Element (BSE) offerings. This list provides a mapping from the industry standard feature name to the feature name utilized in this tariff.

<u>Industry Standard:</u>	<u>Bell Atlantic Telephone Companies</u>
Automatic Protection Switching	Automatic Loop Transfer
Bridging	C.O. Bridging Capability
Bridging	Series Bridging
Bridging	Telegraph Bridging
Bridging	Three Premises Bridging
Conditioning	C-Type Conditioning
Multiplexing Digital	Central Office Multiplexing
Multiplexing Digital	Multiplexing
N/A	Conditioning
N/A	Diversity
N/A	Four-Wire/Two-Wire Conversions
N/A	Gain Conditioning

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7. Special Access Service (Cont'd)MAPPING OF BASIC SERVICE ELEMENTS (Cont'd)

<u>Industry Standard:</u>	<u>Bell Atlantic Telephone Companies</u>
N/A	Provision of Services
N/A	Sealing Current Conditioning
N/A	Signaling Capability
N/A	Technical Specification Packages
N/A	Transfer Arrangement
Network Reconfiguration	NYNEX Enterprise Network Reconfiguration Service
Route Diversity	Avoidance
Secondary Channel Capability	Secondary Channel Capability

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7. Special Access Service (Cont'd)7.1 General

Special Access Service provides a transmission path to connect customer designated premises, a customer designated premises and a WATS Serving Office (WSO), a customer designated premises and a Network Controller location or a customer designated premises and an Expanded Interconnection multiplexing node or virtual collocation arrangement. Except for Expanded Interconnection, the connection may be made either directly or through a Telephone Company Hub where bridging, multiplexing, Vertical Service (i.e., NRS or FRS) or NYNEX Enterprise Service functions are performed. For Expanded Interconnection, the connection may be made either directly or through a Telephone Company Hub where multiplexing functions or Frame Relay Service functions are performed. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

In addition, certain Video and Advanced Video Services may provide the transmission path to connect a customer designated premises and a Telephone Company Hub where the Telephone Company will connect compatible services together at the customer's request.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

The following Telephone Company locations are considered to be customer premises for purposes of administering regulations and rates contained in this tariff and, in the case of Direct Inward Dialing (DID) facility locations, only to permit customers to provide DID Service to Radio Common Carriers:

- Answering Service Concentrators
- Centrex-CO switches
- DID facility locations
- Digital Automatic Call Distribution Service central offices
- INTELLIHUB dedicated network service nodes
- Packet switches other than those set forth in Section 17. following
- INFOPATH packet switching service ports
- V PATH custom network service serving nodes
- IDSR customer surveillance points*

(C)

* Service availability limited. See footnote on Page 26-1.

(N)

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types

There are seventeen types of channels used to provide Special Access Service. Eight of these channel types are classified as Basic Serving Arrangements (BSAs) under the Open Network Architecture structure. Each type has its own characteristics. All are usually subdivided by one or more of the following: (C)

- Transmission specifications
- Bandwidth
- Speed (i.e., bit rate)
- Spectrum

Customers can order a basic channel and select, from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements.

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this tariff, there is no restriction against doing so.

Following is a brief description of each type of channel:

Metallic BSA - a channel for the transmission of low speed varying signals at rates up to 30 baud.

Telegraph Grade BSA - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

Voice Grade BSA - a channel for the transmission of analog signals within an approximate bandwidth of 300-3000 Hz.

Program Audio BSA - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 50 to 15000 Hz, from 200 to 3500 Hz, from 100 to 5000 Hz or from 50 to 8000 Hz.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

Broadcast Video BSA - a channel for the transmission of a standard 525 line/60 field monochrome or National Television Systems Committee color video signal of broadcast quality and its associated 5 or 15 kHz audio signals. The bandwidth for a Broadcast Video channel is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 MHz.

Multichannel Video - a channel for the Frequency Modulation (FM) one-way transmission of up to sixteen standard 525 line/60 field monochrome or National Television Systems Committee color video signals of less than broadcast quality and their associated audio signal(s). The bandwidth for each video signal within the MVS channel is 6 MHz.

Supertrunking Transport Video Service - a channel with a bandwidth of up to 750 MHz for the transmission of multiple Amplitude Modulation (AM) standard 525 line/60 field monochrome or National Television Systems Committee (NTSC) color video signals and monaural or Broadcast Television Systems Committee (BTSC) stereo audio signals over fiber optic facilities.

Wideband Analog - a channel for the transmission of wideband signals. The bandwidths are from 60 to 108 kHz (Group), from 312 to 552 kHz (Supergroup), from 300 Hz to 18 kHz, from 29 to 44 kHz or from 28 to 44 kHz.

Wideband Data - an analog channel for the transmission of synchronous serial data at rates of 19.2, 50.0 or 230.4 kbps or asynchronous serial data at rates of up to 19.2, 50.0 or 230.4 kbps.

Digital Data BSA - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56.0 kbps.

High Capacity BSA - a channel for the transmission of isochronous serial digital data at rates of 1.544 or 44.736 Mbps.

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 3.152 Mbps.

WATS Access Line (WAL) - a channel between a customer designated premises and a WATS Serving Office.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

DIGIPATH® digital service II - a channel for the simultaneous, synchronous transmission of digital data at the rate of 2.4, 4.8, 9.6, 19.2 or 56.0 kbps.

DOVPATHSM service BSA - a channel derived from local exchange service for the transmission of data at speeds of 2.4, 4.8, 9.6 or 19.2 kbps.

NYNEX Enterprise DSO Service - a digital DSO channel for the transmission of analog or digital signals over NES fiber optic facilities.

NYNEX Enterprise Fractional DS1 Service - a digital channel provided over adjacent (contiguous) channels through a common interface at transmission rates of 128.0, 256.0, 384.0, 512.0 and 768.0 kbps.

NYNEX Enterprise DS1 Service - a channel for the transmission of isochronous serial digital data at rates of 1.544 Mbps over NES fiber optic facilities.

NYNEX Enterprise DS3 Service - a channel for the transmission of isochronous serial digital data at rates of 44.736 Mbps over NES fiber optic facilities.

Advanced Uncompressed Digital Video Service - a channel for the digital transmission of multiple one-way uncompressed 8 bit or 10 bit encoded standard 525 line/60 field monochrome, or National Television Systems Committee (NTSC) color, video signals and their associated audio signals.

Advanced Broadcast Video Service - a channel for digital transmission, at a rate of 44.736 Mbps, of a broadcast quality standard 525 line/60 field monochrome, or National Television Systems Committee (NTSC) color, video signal and up to four associated 15 kHz audio signals.

Serial Component Video Service - a channel for one-way transmission, at a rate of 270 Mbps, of broadcast quality 4:2:2 component video signals in serial digital format conforming to the American National Standard Institute/Society of Motion Picture and Television Engineers (ANSI/SMPTE) Standard 259M.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

19.39 Mbps Digital Video Transport Service - a channel for one-way broadband transmission, at a rate of 19.39 Mbps, of high quality video signals in digital format conforming to the ANSI/SMPTE Standard 310M.

45 Mbps Digital Video Transport Service - a channel for one-way broadband transmission, at a rate of 45 Mbps, of high quality video signals in digital format conforming to ANSI digital hierarchy.

Channel Extension Service—a channel for broadband data transmission between mainframe computers, between mainframes and peripheral devices and/or between Local Area Networks (LANs). The transmission may be provided at data rates up to 1.25 Gbps.

(C)
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(C)

Facilities Management Service - a service option that provides for Telephone Company management of engineering and design of a customer's Special Access Service network from the customer's designated primary premises to serving wire centers of secondary locations within the same LATA.

IntelliLight® Dedicated SONET Ring - a dedicated high capacity customized network in a ring architecture or topology that assures survivability.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

Detailed descriptions of each of the channel types are provided in 7.2 following.

The customer also has the option of ordering Voice Grade and digital high capacity facilities (i.e., 1.544 Mbps, 3.152 Mbps and 44.736 Mbps) to a Telephone Company Hub for multiplexing to individual channels of a lower capacity. NES channels may be ordered to a Telephone Company NES Hub for grooming to other NES channels of a different bandwidth. Descriptions of the types of multiplexing or grooming available at the Hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in 7.2 following. Additionally, the customer may specify optional features or Basic Service Elements (BSEs) for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions and BSEs available are also set forth in 7.2 following.

Certain Special Access Services may be ordered in conjunction with NYNEX Enterprise Network Reconfiguration Service (NRS). NRS enables Special Access Services to be reconfigured by cross-connecting services at Telephone Company Hubs where NRS functions are performed.

For example, a customer may order a 1.544 Mbps facility from a customer designated premises to a Telephone Company Hub for multiplexing to twenty-four Voice Grade channels. The Voice Grade channels may be further multiplexed at the same or a different Hub to Telegraph Grade channels or may be extended to other customer designated premises. Optional features or BSEs may be added to the 1.544 Mbps, the Voice Grade or the Telegraph Grade channels.

In addition, certain video services, as provided in 7.2.5 and 7.2.14 following, may be ordered to a Telephone Company Hub where the Telephone Company will connect compatible services together at the customer's request.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Rate Categories (Cont'd)

There are three basic rate categories which apply to Special Access Service:

- Channel Termination (described in 7.1.2(A) following). When the Special Access Service is connected to an Expanded Interconnection multiplexing node or virtual collocation arrangement in the states of New York and Connecticut, an OCT POT Bay Termination and an OCT Cable and Frame Termination (described in Section 28. following) also apply for connection(s) to a multiplexing node and a VOCT Access Charge (described in Section 28. following) also applies for connection(s) to a virtual collocation arrangement.
- Channel Mileage (described in 7.1.2(B) following)
- Optional Features and Functions or BSEs (described in 7.1.2(C) following)

(C)

(C)

Additionally, ports and nodes may also apply to Special Access IntelliLight® Dedicated SONET Ring as set forth in 7.2.17 following.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Rate Categories (Cont'd)(A) Channel Termination

The Channel Termination rate element is divided into three categories, Standard Channel Termination, Office Channel Termination Cross Connect and Virtual Office Channel Termination (VOCT). In the states of New York and Connecticut, an OCT POT Bay Termination and OCT Cable and Frame Termination (described in Section 28. following) also apply for connection(s) to a multiplexing node and a VOCT Access Charge (described in Section 28. following) also applies for connection(s) to a virtual collocation arrangement.

(C)
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(C)

The Standard Channel Termination rate category provides for the communications path between a customer designated premises and the serving wire center of that premises or for the communications path within a building which connects a customer's facilities with a customer designated premises without routing through the serving wire center.

The Office Channel Termination Cross Connect rate category provides for the communications path between customer provided fiber optic or microwave facilities and transmission equipment and the Telephone Company serving wire center. In the states of New York and Connecticut, an OCT POT Bay Termination and OCT Cable and Frame Termination (described in Section 28. following) also apply.

(C)

The Virtual Office Channel Termination rate category provides for the communications path between customer provided fiber optic facilities and transmission equipment and the Telephone Company serving wire center. In the states of New York and Connecticut, a VOCT Access Charge (described in Section 28. following) also applies.

(C)

Included as part of the Standard Channel Termination, Office Channel Termination Cross Connect or Virtual Office Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as either an optional feature or a BSE as set forth in (C) following.

Certain regulations previously found on this page can now be found on
1st Revised Page 7-11.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Rate Categories (Cont'd)(A) Channel Termination (Cont'd)

- (1) One Standard Channel Termination applies per channel terminated at each customer designated premises. (M)

The Standard Channel Termination rate element will apply for all Telephone Company Access connections except High Capacity or NYNEX Enterprise Services utilizing an Expanded Interconnection multiplexing node or virtual collocation arrangement. A Standard Channel Termination monthly rate will apply even when the customer designated premises and the serving wire center are located in the same Telephone Company building unless the customer establishes an Expanded Interconnection multiplexing node or virtual collocation arrangement, in which case the rates and charges set forth in (2) following will apply. (M)

- (2) An Office Channel Termination (OCT) Cross Connect will apply in lieu of the Standard Channel Termination for each High Capacity or NYNEX Enterprise Service channel terminated at an Expanded Interconnection multiplexing node. In addition, an OCT Termination Charge applies for each Office Channel Termination cross-connected to either a Telephone Company-provided POT Bay or a customer-provided, Telephone Company-maintained POT Bay at an Expanded Interconnection multiplexing node. The OCT Termination Charge applies in all states except the states of New York and Connecticut. A Virtual Office Channel Termination (VOCT) will apply in lieu of the Standard Channel Termination for each High Capacity or NYNEX Enterprise Service channel terminated at a virtual collocation arrangement. (C)
(C)
(C)

In the state of New York and Connecticut, an OCT POT Bay Termination and OCT Cable and Frame Termination as described in Section 28. following also apply for connection(s) to a multiplexing node and a VOCT Access Charge as described in Section 28. following also applies for connection(s) to a virtual collocation arrangement. (C)
(C)

Certain regulations on this page formerly appeared on Original Page 7-10.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Rate Categories (Cont'd)(B) Channel Mileage

The Channel Mileage rate category provides for the transmission facilities between the serving wire centers associated with two customer designated premises; between a serving wire center associated with an end user premises and a WATS Serving Office (WSO), a Network Controller location or a Telephone Company Hub; between the serving wire center associated with a customer designated premises and an Expanded Interconnection multiplexing node or virtual collocation arrangement; between an Expanded Interconnection multiplexing node or a virtual collocation arrangement and a Telephone Company multiplexing Hub, grooming Hub or Frame Relay Service Hub; or between two Telephone Company Hubs, except when Frame Relay Service provides the transport between the Hubs. Channel Mileage is portrayed in mileage bands. Except as specified otherwise under the description and rates and charges for a service, there are two rates that apply for each band, i.e., a fixed rate per band and a rate per mile.

The Channel Mileage rate category also provides for the transmission facilities between IDSR nodes as described in 7.2.17 following. (N)
(N)
(N)

In addition to the channel mileage rates, a nonrecurring charge (Mid-Link Charge) applies to Channel Mileage between:

- two Telephone Company Hubs where cascade multiplexing is performed, unless the two Hubs are located in the same wire center or NYNEX Enterprise Service provides the transport between Hubs; or
- two Telephone Company Hubs where NYNEX Enterprise Network Reconfiguration Service functions are performed, unless the two Hubs are located in the same wire center or NYNEX Enterprise Service provides the transport between Hubs.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Rate Categories (Cont'd)(B) Channel Mileage (Cont'd)

The Channel Mileage rate category also applies for the transmission facilities between two Telephone Company Intermediate or Super-Intermediate Hubs for the purpose of interconnecting two multiplexed facilities with a channel of lesser capacity or between two NES Hubs for the purpose of interconnecting two groomed facilities with a channel of lesser capacity. Channel mileage rates and a nonrecurring charge (ThruPath Connection Charge) apply for each lesser capacity channel arranged between the two multiplexed or groomed facilities. The charge applies whether the two Telephone Company Hubs are located in the same or different wire center. Except for the following hub locations, High Capacity ThruPath Service connections are available at or between all Intermediate or Super-Intermediate Hubs, subject to the regulations set forth in 7.4.7 following.

- Essex Junction, VT
- Mansfield, MA
- Maynard, MA
- Natick, MA
- New Bedford, MA
- North Chelmsford, MA
- Rehoboth, MA

NYNEX Enterprise Service ThruPath connections are available at or between all NES Hubs.

A Mid-Link Nonrecurring Charge does not apply to a ThruPath Service connection.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Rate Categories (Cont'd)(B) Channel Mileage (Cont'd)

The following regulations apply to WAL Service for use with Feature Groups A, B and D, CSL BSA, and CST BSA - Option 1 and 3 arranged for originating only calling, not equipped with the End Office End User Line Service Screening optional feature, as detailed in Section 6. preceding, or arranged for two way calling, and to WAL Service for use with Feature Groups A, B, CSL BSA and CST BSA - Option 1 arranged for terminating only calling.

When the WSO which normally serves the customer designated premises (normal WSO) is not a suitably equipped WSO equipped with FGD or CST BSA - Option 3 capability, the WAL Service will be provided from the nearest WSO so equipped. Channel Mileage charges, if applicable, will apply only for the distance between the serving wire center of the customer designated premises and the normal WSO.

When the normal WSO is modified to be a suitably equipped WSO equipped with FGD or CST BSA - Option 3 capability, the WAL Service will be rearranged to be provided from the normal WSO. No charge will apply for such rearrangement. At the option of the customer, however, the WAL Service may continue to be provided from other than the normal WSO. Channel Mileage charges will then apply for the distance between the serving wire center of the customer designated premises and the serving WSO.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Rate Categories (Cont'd)(C) Optional Features and Functions/Basic Service Elements

The Optional Features and Functions/Basic Service Element rate category provides for optional features and functions or BSEs which may be added to a Special Access 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 performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

Examples of Optional Features and Functions/Basic Service Elements that are available include, but are not limited to, the following:

- Signaling Capability
- Central Office Bridging
- Central Office Multiplexing
- Conditioning
- Transfer Arrangements

Several Optional Features and Functions are performed from Telephone Company serving wire centers which have been designated as Telephone Company Hubs where certain functions are performed. For example, the bridging functions are to connect three or more customer designated premises in a multipoint arrangement while the multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

(A) Two-Point Service

Except for Expanded Interconnection, two-point service connects two customer designated premises, or a customer designated premises and a WATS Serving Office, or a customer designated premises and a Network Controller location either on a directly connected basis or through a Hub where multiplexing, Vertical Service (i.e., NRS or FRS) or NYNEX Enterprise Service functions are performed. For Expanded Interconnection, a two-point service connects a customer designated premises and an Expanded Interconnection multiplexing node or virtual collocation arrangement either on a directly connected basis or through a Hub where multiplexing functions or Frame Relay Service functions are performed.

Applicable rate elements are:

- Channel Termination*
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

* The Channel Termination rate element applies as follows:

	<u>Service</u>	<u>Type of Channel Termination</u>
(1)	WATS Access line Service Extension Service provided for an additional termination of WAL Service as specified in 7.2.10(D)(2) following.	One Standard Channel Termination rate element applies at the customer designated premises.
(2)	Special Access Service provided to the Network Controller location as specified in Section 19. following.	On Standard Channel Termination rate element applies at the customer designated premises.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(A) Two-Point Service (Cont'd)

<u>Service</u>	<u>Type of Channel Termination</u>	
(3) High Capacity Services (except 44.736 Mbps with an Optical Fiber Interface Option) provided between an Expanded Interconnection multiplexing node and		
- a customer designated premises	One Standard Channel Termination rate element applies at the customer designated premises and One Office Channel Termination Cross Connect rate element applies at the Expanded Interconnection multiplexing node*#.	(C)
- a Telephone Company Hub	One Office Channel Termination Cross Connect rate element applies at the Expanded Interconnection multiplexing node*#.	(C)
* In all states except the states of New York and Connecticut, an OCT Termination Charge also applies for each Office Channel Termination cross-connected to either a Telephone Company-provided POT Bay or a customer-provided, Telephone Company-maintained POT Bay.		(C) (C)
# In the states of New York and Connecticut, an OCT POT Bay Termination and OCT Cable and Frame Termination as described in Section 28. following also apply for connection(s) to an Expanded Interconnection multiplexing node.		(N) (N) (N) (N)

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7. Special Access Service (Cont'd)

7.1.3 Service Configurations (Cont'd)

<u>Service</u>	<u>Type of Channel Termination</u>	
(4) High Capacity Services (except 44.736 Mbps with an Optical Fiber Interface Option) provided between an Expanded Interconnection virtual collocation arrangement and		(M)
- a customer designated premises	One Standard Channel Termination rate element applies at the customer designated premises and One Virtual Office Channel Termination rate element applies at the virtual collocation arrangement.#	(M) (C)
- a Telephone Company Hub	One Virtual Office Channel Termination rate element applies at the virtual collocation arrangement.#	(M) (M) (M) (C)
(5) For all Special Access Services except as specified in (1) through (4) preceding provided between a customer designated premises and		(T)
- another customer designated premises	One Standard Channel Termination rate element applies at each customer designated premises.	
- a Telephone Company Hub	One Standard Channel Termination rate element applies at the customer designated premises.	
In the states of New York and Connecticut, a VOCT Access Charge as described in Section 28. following also applies for connection(s) to a virtual collocation arrangement.		(N) (N) (N)

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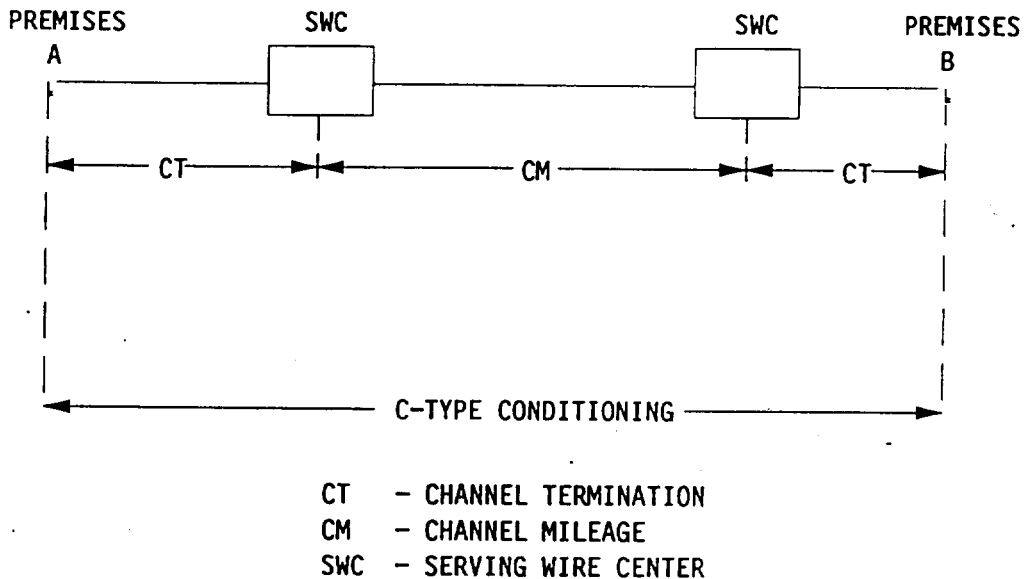
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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(A) Two-Point Service (Cont'd)

In addition a Special Access Surcharge as set forth in 7.4.2 following may be applicable.

The following diagram depicts a two-point Voice Grade service connecting two customer designated premises located 15 miles apart. The service is provided with C-Type Conditioning.



Applicable rate elements are:

- Channel Terminations (2 applicable)
- Channel Mileage (mileage band Over 0 miles)
- C-Type Conditioning BSE

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service

Multipoint service connects three or more* customer designated premises through a Telephone Company Hub. There is no limitation on the number of mid-links available with multipoint service, except for Video Service and Advanced Video Services which require that all services included in the multipoint arrangement be connected at a single Hub. However, where 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). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the Service Descriptions set forth in 7.2 following.

Multipoint service utilizing a customized technical specifications package as set forth in 7.2 following will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging Hub(s) selected from the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, unless otherwise specified in this tariff.

This tariff identifies the type(s) of bridging functions which are available and the serving wire centers at which they are available.

Applicable Rate Elements are:

- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable between each customer designated premises and the Hub and between Hubs)
- Bridging (one bridge port per point of a circuit which terminates [enters or exits] at a Bridging Cross Connect System or equivalent device)
- Additional Optional Features and Functions (when applicable)

In addition, a Special Access Surcharge as set forth in 7.4.2 following may be applicable.

* For analog NYNEX Enterprise Service DSO channels, a maximum of forty-one customer designated premises may be connected in a multipoint configuration. For digital NYNEX Enterprise Service DSO Channels, a maximum of seventeen customer designated premises may be connected in a multipoint configuration.

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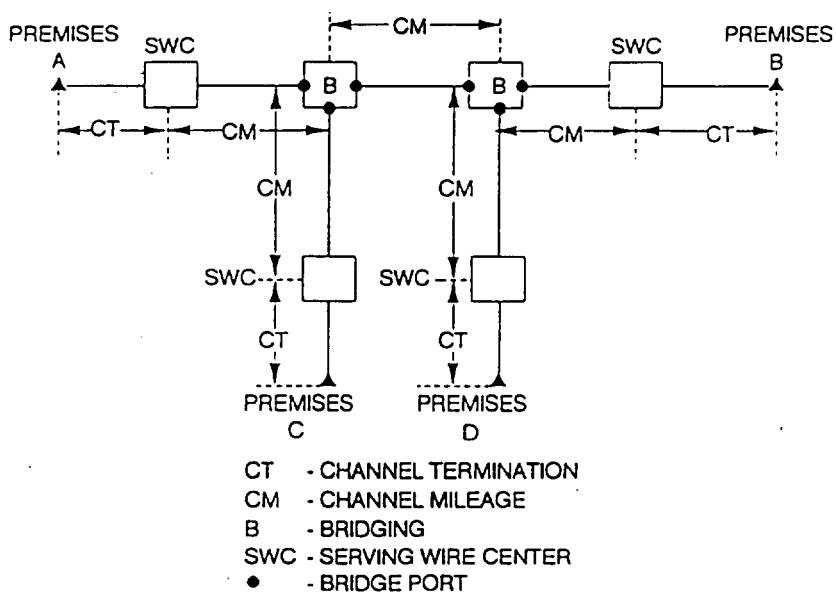
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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service

Example: Voice Grade multipoint service connecting four customer designated premises via two customer specified bridging Hubs.



Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage (5 sections, each from appropriate mileage band)
- Bridging (6 applicable, i.e., each bridge port)

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.4 Alternate Use

Alternate Use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an ICB as set forth in Section 12., Specialized Service or Arrangements, and filed in 31.12 following. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered (i.e., Channel Terminations, Channel Mileage [as applicable] and Optional Features and Functions/BSEs [if any]).

7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Enhanced Access Diversity, Alternate Serving Wire Center, Avoidance, Diversity and Cable-Only) are set forth in this section and in Section 11. following.

7.1.6 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the make-up of the facilities and services provided under this tariff as Special Access Service to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.7 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test, at the time of installation, the following parameters:

- (A) For Voice Grade analog services and WATS Access Line Services, acceptance tests will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade Services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
- (B) For other analog services (i.e., Metallic, Telegraph Grade, Program Audio, Video, Wideband Analog, Wideband Data and WATS Access Line) and for digital services (i.e., Digital Data Service, DIGIPATH digital service II, DOVPATH service, High Capacity Service and NYNEX Enterprise Service) and optical services, acceptance tests will include tests for the parameters applicable to the service as specified in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade Service to test other parameters, as described in Section 13.3.5(B) following, is available at the customer's request. All tests results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

- Special Access Service is ordered under the Access Order provisions set forth in Section 5. preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

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7. Special Access Service (Cont'd)7.2 Service Descriptions

For the purposes of ordering, there are seventeen categories of Special Access Service. These are: (C)

Metallic (MT)
Telegraph Grade (TG)
Voice Grade (VG)
Program Audio (AP)
Video (TV)
Wideband Analog (WA)
Wideband Data (WD)
Digital Data (DA)
High Capacity (HC)
WATS Access Line (WAL)
DIGIPATH digital service II (DDS II)
DOVPATH service (DOV)
NYNEX Enterprise Service (NES)
Advanced Video Services
Channel Extension Service
Facilities Management Service
IntelliLight® Dedicated SONET Ring (N)

Each service consists of a basic channel to which a technical specifications package (customized or predefined), if applicable, channel interface(s) and, when desired, optional features and functions or BSEs are added to construct the service desired by the customer. Each of the components of the service are described in this section.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or between a customer designated premises and a Telephone Company Hub where functions such as bridging, multiplexing, Vertical Service (i.e., NRS or FRS) or NYNEX Enterprise Service are performed.

Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category or Special Access Service. The letter "C" following the two letter code indicates the technical specifications package for a customized service. A numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

Channel interfaces at each Point of Termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in 7.3.5 following in a combination format.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)

Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth at the end of this 7.2. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

The optional features and functions are BSEs available with each type of Special Access Service are described in this section. Where appropriate, the optional features and functions are BSE information also indicates with which technical specifications packages they are available. Such information is displayed in a matrix with the optional feature or function or BSE listed down the left side and the technical specifications package listed across the top.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff except that the existing services with performance specifications exceeding the standards listed in this provision will be maintained at the performance levels specified in this tariff. All services installed after the effective date of this tariff will conform to the transmission specifications standards contained in this tariff or in the following Technical References for each category of service.

Metallic	TR-NPL-000336	
Telegraph Grade	TR-NPL-000336	
Voice Grade	TR-TSY-000335	
	PUB 41004, Table 4	
Program Audio	TR-NPL-000337	
Video	NTR-74410, Issue No. 1	
	TR-TSV-000338, Issue No. 2	
	SN-INS-001532, Issue No. 1	
	SR-NWT-001851	
	SR-NPL-001434, Issue No. 1	
Wideband Analog	TR-NPL-000339	
Wideband Data	TR-NPL-000340	
Digital Data	TR-NPL-000341	
	PUB 62310	
High Capacity	GR-342, Issue 1	(C)(x)
	PUB 62411	
	TR-NPL-000054	
	TR-EOP-000063, Issue No. 3	
	GR-253-CORE, Issue 2	
WATS Access Line	TR-NWT-000334	
	TR-NPL-000341	

(x) Replaces technical publication TR-INS-000342 in its entirety.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)

DIGIPATH digital service II	TR-NPL-000157 PUB 74380, Issue No. 1 NTR 74374, Issue No. 2 NTR 74375, Issue No. 2
DOVPATH service	NTR 74374, Issue No. 2 NTR 74375, Issue No. 2
NYNEX Enterprise Services	TR-TSY-000335 PUB 41004, Table 4 TR-NPL-000157 PUB 62310 NTR 74374, Issue No. 2 NTR 74375, Issue No. 2 TR-NPL-000054 PUB 62411 GR-342, Issue 1 PRD 0004
Advanced Video Services	NTR-74415, Issue No. 1 GR-342, Issue 1 TR-NPL-000337 TR-TSV-000338, Issue No. 2 ANSI/SMPTE 259M - 1997 ANSI/SMPTE 310M - 1998 ANSI T1.102-1993 (R1999) ANSI T1.102.01-1996 ANSI T1.107-1995 ATSC Standard A/53 ATSC Standard A/54 SR-4274 GR388
Channel Extension Service	ESA 390/SA23-0394-00 ESA 390/SA22-7202-02 GA23-0383 ANSI X3.271
IntelliLight® Dedicated SONET Ring	GR-253-CORE, Issue 2 GR-1374-CORE, Issue 1 GR-1377-CORE, Issue 4 ANSI T1.105-1995

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.1 Metallic Service(A) Basic Channel Description

A Metallic channel is an unconditioned two-wire channel capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

(B) Technical Specifications Packages

<u>Parameter</u>	<u>C</u>	<u>Package MT-</u>		
		<u>1</u>	<u>2</u>	<u>3</u>
DC Resistance				
Between Conductors	X	X	X	
Loop Resistance	X			X
Shunt Capacitance	X			X

The technical specifications are delineated in Technical Reference TR-NPL-000336.

(C) Channel Interfaces

Compatible channel interfaces are set forth in 7.3.5(A) following.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.1 Metallic Service (Cont'd)(D) Basic Service Elements (BSEs)(1) Central Office Bridging Capability

- (a) Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer designated premises.
- (b) Series Bridging of up to 26 customer designated premises.

The following table shows the technical specifications packages with which the Basic Service Elements are available.

	<u>Available with Technical Specifications Package MT -</u>			
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>
Three Premises Bridging	X	X		X
Series Bridging	X		X	

7.2.2 Telegraph Grade Service(A) Basic Channel Description

A Telegraph Grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph Grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.2 Telegraph Grade Service (Cont'd)(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package TG-</u>		
	<u>C</u>	<u>1</u>	<u>2</u>
Telegraph Distortion	X	X	X

The technical specifications are delineated in Technical Reference TR-NPL-000336.

(C) Channel Interfaces

Compatible channel interfaces are set forth in 7.3.5(B) following.

(D) Basic Service Elements (BSEs)

(1) Telegraph Bridging (two-wire and four-wire)

The following table shows the technical specifications packages with which the Basic Service Elements are available.

	<u>Available with Technical Specifications Package TG-</u>		
	<u>C</u>	<u>1</u>	<u>2</u>
Telegraph Bridging	X	X	X

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service(A) Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises or between a customer designated premises and a telephone company Hub.

(B) Technical Specification Packages

	Package VG-												
<u>Parameter</u>	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
Attenuation													
Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Message Noise	X	X	X	X	X	X	X	X	X	X	X	X	X
Echo Control	X	X	X	X		X		X	X			X	X
Envelope Delay													
Distortion	X						X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X
Impulse Noise	X					X	X	X	X	X	X	X	X
Intermodulation													
Distortion	X						X	X	X	X	X	X	
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain													
Hits, and													
Dropouts	X												
Phase Jitter	X						X	X	X	X	X	X	
Signal-to-C													
Message Noise					X								
Signal-to-C													
Notch Noise	X					X	X	X	X	X	X	X	X

* The desired parameters are selected by the customer from the list of available parameters.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service (Cont'd)(B) Technical Specifications Packages (Cont'd)

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference TR-TSY-000335. The technical specifications for dropouts, phase hits, and gain hits are delineated in Technical Reference PUB 41004, Table 4.

(C) Channel Interfaces

The following channel interfaces for Voice Grade service do not require signaling capability: DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

Compatible channel interfaces are set forth in 7.3.5(C) following.

(D) Optional Features and Functions/Basic Service Elements (BSEs)(1) Central Office Bridging Capability BSE

- (a) Voice Bridging (two-wire and four-wire)
- (b) Data Bridging (two-wire and four-wire)
- (c) Telephoto Bridging (two-wire and four-wire)
- (d) DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)
(Cont'd)(1) Central Office Bridging Capability BSE (Cont'd)

(e) Telemetry and Alarm Bridging

Split Band, Active Bridging
Passive Bridging
Summation, Active Bridging

(2) Central Office Multiplexing

Voice to Telegraph Grade: An arrangement that converts a Voice Grade channel to Telegraph Grade channels using frequency division multiplexing.

(3) Conditioning BSE

Conditioning provides more specific transmission characteristics for Voice Grade services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing Current helps maintain continuity on dry metallic loops.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid-link or end-link. C-Type conditioning and Data Capability may be combined on the same service.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)
(Cont'd)(3) Conditioning BSE (Cont'd)(a) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are:

Attenuation Distortion (Frequency Response) <u>Relative to 1004 Hz</u>		Envelope Delay <u>Distortion</u>	
<u>Frequency Range (Hz)</u>	<u>Variation (dB)</u>	<u>Frequency Range (Hz)</u>	<u>Variation mcs</u>
400-2800	-1.0 to +2.0	1000-2600	100
300-3000	-1.0 to +3.0	800-2600	200
3000-3200	-2.0 to +6.0	600-2600	300
		500-2800	600
		500-3000	3000

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions/Basic Service Elements (BSEs)
(Cont'd)

(3) Conditioning BSE (Cont'd)

(b) Sealing Current Conditioning

Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type channel interfaces.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)
(Cont'd)(4) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. The level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference TR-TSY-000335.

(5) Improved Return Loss (Echo Control)

(a) Improved return loss at a four-wire Point of Termination will provide improved echo control via an upgraded ELEPL. Telephone Company equipment may be required at the customers' premises where this option is ordered. The improved echo control parameters are delineated in Technical Reference TR-TSY-000335.

(b) Improved return loss at a two-wire Point of Termination will provide improved echo control via an upgraded return loss limit. Telephone Company equipment may be required at the customers' premises where this option is ordered. The improved echo control parameters are delineated in Technical Reference TR-TSY-000335.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)
(Cont'd)(6) Data Capability

Data Capability (also known as D-Type Conditioning) provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameters for Data Capability are:

- Signal to C-Notched Noise Ratio is equal to or greater than 32db
- Intermodulation distortion:
 - Signal to second order modulation products (R2) is equal to or greater than 38db
 - Signal to third order modulation products (R3) is equal to or greater than 42db

When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)
(Cont'd)(7) Telephoto Capability

Telephoto Capability provides transmission characteristics suitable for telephotographic communications. Specifically, Telephoto Capability is provided for the control of attenuation distortion and envelope delay distortion on telephotographic services. The attenuation distortion and envelope delay distortion parameters for Telephoto Capability are:

<u>Attenuation Distortion</u> (2204 Hz Reference)		<u>Envelope Delay Distortion</u>	
<u>Frequency Range (Hz)</u>	<u>Variation (dB)</u>	<u>Frequency Range (Hz)</u>	<u>Variation mcs</u>
500-3000	-0.5 to +1.5	1000-2600	110
300-3200	-1.0 to +2.5	800-2800	180

(8) Signaling Capability BSE

Signaling Capability provides for the process by which one customer designated premises alerts another customer designated premises on the same service with which it wishes to communicate.

(9) Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)
(Cont'd)(10) Transfer Arrangement BSE

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a channel of a Special Access Service to another channel that terminates in either the same or a different customer designated premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option.

(11) Alternate Serving Wire Center*

An optional feature in which Voice Grade Channel Terminations are provided over an alternate route to a serving wire center other than that normally serving the customer's designated premises. The mileage used to determine the monthly rate for channel mileage is based on the normal serving wire center associated with the customer designated premises as described in 7.1.2 preceding. The rates for Alternate Serving Wire Center apply per point of termination.

When a customer orders the Alternate Serving Wire Center Optional Feature, the Alternate Serving Wire Center Rate as specified in 31.7.3(C)(11) following applies in addition to the Channel Termination and Channel Mileage Rates and charges for each applicable Voice Grade Service.

* Available in New York Telephone only.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)
(Cont'd)(10) Alternate Serving Wire Center* (Cont'd)

A Volume Discount Plan is available with Alternate Serving Wire Center Channel Terminations. The Volume Discount Plan is based on the number of channel terminations at each specific customer's building location. When a customer increases the number of Voice Grade Services with the Alternate Serving Wire Center feature the rate for the Alternate Serving Wire Center feature will decrease as specified in 31.7.9(C)(4) and (5) following.

Disconnection of any channel routed to an Alternate Serving Wire Center is based on ascending order (i.e., the last channel installed is the first channel removed). The First Alternate Serving Wire Center Rate remains in effect until all channels are disconnected.

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