

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs) (Cont'd)

The following table shows the technical specifications packages with which the optional features and functions or BSEs are available.

	Available with Technical Specifications Package HC-			
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>3</u>
Automatic Loop Transfer*		X		X
Central Office Multiplexing:				
DS3 to DS1				X
DS1C to DS1			X	
DS1 to DS0		X		
DS0 to Subrate**	X			
Transfer Arrangement		X		
Clear Channel Capability		X		
Supreme EAD		X		X
Deluxe EAD		X		X
Basic EAD		X		X

* Available in New England Telephone with 44.736 Mbps Service at ICB rates and charges.

** Available only on a channel of a 1.544 Mbps facility to a Telephone Company Hub.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.10 WATS Access Line (WAL) Service(A) Basic Channel Description

A WATS Access Line Service provides a channel for voice frequency transmission capability. The service provides a connection between a customer designated premises and a WATS Serving Office associated with the closed end of 800 Service, WATS or similar services. It is provided for use with Switched Access Service Arrangements as set forth in Section 6. preceding and subject to the following state requirements:

In Connecticut, as required by Connecticut State Law, Public Act 87-415, without routing of intra-Connecticut calls to the Feature Groups C, D or CST BSA - Option 2 or 3 Switched Access Service for customers who have not been issued a certificate of public convenience and necessity by the Department of Public Utility Control and who do not have an effective intrastate tariff for such service.

In Massachusetts, in accordance with the Department of Public Utilities directive, "...intraLATA traffic will be blocked from those carriers who do not have an approved certificate of public convenience and necessity and an effective intrastate tariff on file with the Department of Public Utilities."

In New Hampshire, in compliance with the Public Utilities Commission's Order in Docket 86-310 and Maine, in compliance with the Public Utilities Commission's Order in Docket 86-237, intraLATA traffic will be blocked from those carriers who do not have a certificate of public convenience and an effective intrastate tariff. In such cases, intraLATA traffic will be completed by New England Telephone and Telegraph Company.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.10 WATS Access Line (WAL) Service (Cont'd)(A) Basic Channel Description (Cont'd)

WAL Service may, at the option of the customer, be arranged for originating calling only, terminating calling only or two way calling. WAL Service arranged for originating calling only which is not equipped with the End Office End User Line Service Screening optional feature, as detailed in Section 6. preceding, for two way calling or (for FGA, FGB, CSL BSA and CST BSA - Option 1) for terminating calling only is available from suitably equipped equal access WATS Serving Offices with FGD or CST BSA - Option 3 capability. WAL Service arranged for two way calling is not available with Telephone Company Centrex-CO Service.

As specified in Section 6. preceding, WAL Service is provided with either dial pulse or dual tone multifrequency address signaling and either loop start, ground start, E&M or reverse battery supervisory signaling. Reverse battery supervisory signaling is provided only for one-way WAL Service. The choice of the type of signaling is at the option of the customer and subject to the technical limitations identified in the Technical Reference TR-NWT-000334. WATS Access Line Service is provided as an effective two-wire or effective four-wire transmission path.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.10 WATS Access Line (WAL) Service (Cont'd)

(B) Technical Specification Packages

<u>Parameter</u>	<u>Package WAL -</u>	
	<u>1</u>	<u>2</u>
Attenuation distortion	X	X
C-Message Noise	X	X
Echo Control	X	X
Envelop Delay Distortion	X	X
Frequency Shift	X	X
Impulse Noise	X	X
Intermodulation Distortion	X	X
Loss Deviation	X	X
Phase Jitter	X	X
Signal-to-C Notch Noise	X	X

The technical specifications for acceptance limits and immediate action limits are delineated in Technical Reference TR-NWT-000334.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.10 WATS Access Line (WAL) Service (Cont'd)

(C) Channel Interfaces

The following channel interfaces are available with WAL Service:
 EA, EB, GO, GS, LO, LS, RV

Compatible channel interfaces are shown below:

<u>Premises Interface</u>	<u>WSO Supervisory Signaling</u>	
06EA2.E	EA, EB	(T)
06EA2.M	EA, EB	
08EB2.E	EA, EB	
08EB2.M	EA, EB	
02GS2	GO	
02GS3	GO	
04GS2	GO	
02LS2	LO	
02LS3	LO	
04LS2	LO	
02RV2.T	RV	
02RV3.T	RV	
02RV2.O	RV	
02RV3.O	RV	
04RV2.T	RV	(T)

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.10 WATS Access Line (WAL) Service (Cont'd)

(D) Optional Features and Functions

(1) Improved two-wire voice transmission specifications

(a) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -4.0 dB to +4.0 dB.

(b) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +6.0 dB.

(c) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
Less than 50	35 dBrnCO
51 to 100	37 dBrnCO
101 to 200	40 dBrnCO
201 to 400	43 dBrnCO
401 to 1000	45 dBrnCO

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.10 WATS Access Line (WAL) Service (Cont'd)(D) Optional Features and Functions (Cont'd)

(1) Improved two-wire voice transmission specifications (Cont'd)

(d) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	13.0 dB
SRL	6.0 dB

(2) Extension Service

Extension Service provides for an additional termination(s) of WAL Service at another building(s) in the same or a different LATA.

A WAL Service channel termination charge applies for the communications path between the customer designated premises and the serving wire center of that premises. In addition, where the wire center for the customer designated premises is different from the wire center for the premises where the WAL Service is terminated, channel mileage charges apply for the transmission facilities between the serving wire center of the customer designated premises and the WATS Serving Office. The Special Access Surcharge as specified in 7.4.2 may be applicable.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.10 WATS Access Line (WAL) Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(2) Extension Service (Cont'd)

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

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical	
	<u>Specifications Package 1</u>	<u>Package 2</u>
Improved Two Wire Voice Transmission Specifications	X	X
Extension Service	X	X

Certain other options associated with WAL Services are provided as either WATS Access Line Service, Line Termination or Common Switching Optional Features as defined in Section 6. preceding.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.11 DIGIPATH Digital Service II

(A) Basic Channel Description

A DIGIPATH digital service II (DDS II) channel is a channel for the simultaneous transmission of digital data at the rate of 2.4, 4.8, 9.6, 19.2 or 56.0 kbps. The actual bit rate is a function of the channel interface selected by the customer. DDS II operates in a full-duplex, synchronous transmission mode over either two-wire* or four-wire facilities between customer designated premises or between a customer designated premises and a Telephone Company Hub. In New England Telephone DDS II may operate over two-wire facilities between a customer designated premises and a Network Controller location. 56.0 kbps transmission operates on four-wire facilities only.

At the option of the customer, DDS II may be provided under a Service Discount Plan as specified in 7.4.10 following, or when DDS II provides the access to Frame Relay Service, DDS II may be provided under the FRS Term Commitment Plan as specified in Section 17.3.2 following.

(B) Technical Specification Packages

<u>Parameter</u>	<u>Package DA-</u>				
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
Error-Free Seconds	X	X	X	X	X

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in NTR 74374, Issue No. 2, NTR 74375, Issue No. 2 and NTR-74380, Issue No. 1.

Voltages which are compatible with DIGIPATH digital data service II are delineated in Technical Reference TR-NPL-000341.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.11 DIGIPATH Digital Service II (Cont'd)(C) Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a DIGIPATH digital service II channel:

<u>CI</u>	<u>Bit Rate</u>
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-96	9.6 kbps
DU-19	19.2 kbps
DU-56	56.0 kbps

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

(D) Optional Features and Functions(1) Central Office Bridging Capability

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.11 DIGIPATH Digital Service II (Cont'd)

(C) Optional Features and Functions (Cont'd)

(2) Secondary Channel Capability (SCC)

Channel conditioning, provided from suitably equipped Hubs, that permits a DDS II 4-wire channel to be used with a compatible customer-provided Data Service Unit which can derive a lower speed secondary channel at a synchronous rate as described in Technical Reference TR-NPL-000157. The secondary channel operates in parallel with the primary DDS II channel and can provide simultaneous two-way transmission of digital signals between customer premises. The SCC is used for diverse network capabilities including, but not limited to, providing a lower speed data channel or access to a network management system to perform on line diagnostics and testing, data monitoring, traffic measurement, etc. This feature is available on a point to point or multipoint basis, where facilities permit, but is not available with INFOPATH packet switching service or channels which require regenerative repeaters in the loop to the customer premises. Customers must agree to out-of-service periods required to add this feature to an existing channel.

The following table shows the technical specifications packages with which the optional features and functions are available.

	<u>Available with Technical Specifications Package DA-</u>				
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
Central Office Building Capability	X	X	X	X	X
Secondary Channel Capability	X	X	X	X	X

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.12 DOVPATH Service(A) Basic Channel Description

A DOVPATH service channel is a channel for both synchronous and asynchronous data transmission at speeds of 2.4, 4.8, 9.6 or 19.2* kbps. The actual bit rate is function of the channel interface selected by the customer. A DOVPATH service Channel Termination is provided as a derived channel of a local exchange service. In New York Telephone, a DOVPATH service Channel Termination may also be provided on a two-way Voice Grade Special Access Service. The customer may transmit data over the DOVPATH service channel simultaneous with a voice transmission. The customer must provide a data voice multiplexer, as appropriate, at each customer designated premises.

DOVPATH service is provided where suitable facilities are available subject to the transmission limitations of the facilities and equipment used by the Telephone Company. It is provided between customer designated premises or between a customer designated premises and a Telephone Company Hub where bridging or multiplexing functions are performed. In New England Telephone, DOVPATH service is also provided between a customer designated premises and a Network Controller Location.

(B) Technical Specifications

The technical specifications for the customer-provided data voice multiplexer are delineated in Technical Reference NTR-74374, Issue No. 2. The technical specifications for interfacing DOVPATH service with High Capacity Service are delineated in Technical Reference NTR-74375, Issue No. 2.

* New York Telephone only.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.12 DOVPATH Service (Cont'd)(C) Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a DOVPATH service channel:

<u>CI</u>	<u>Bit Rate</u>
DV-BA	2.4 kbps
DV-BB	4.8 kbps
DV-BC	9.6 kbps
DV-BL	19.2 kbps

(D) Optional Features and Functions(1) Digital Bridging Capability*

Digital Bridging Capability provides for the connection of three or more customer designated premises. The total number of customer designated premises may vary and is dependent on each customer's particular bridging requirements. The Telephone Company will work cooperatively to provide the number of customer designated premises which may be connected for each customer's specific bridging requirements. All locations must operate at the same transmission rate.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services*(A) General

NYNEX Enterprise Services (NES) are digital channels operating at transmission speeds between 2.4 kbps and 44.736 Mbps with inherent grooming capability. The individual channel types are set forth in (C) following.

When NYNEX Enterprise Services are ordered without customer specified grooming or bridging functions or NYNEX Enterprise Network Reconfiguration Service (NRS) functions, the Telephone Company will design NYNEX Enterprise Services through one or more Telephone Company Hub(s) where NYNEX Enterprise Service functions are performed. These service configurations include:

- service provided between customer designated premises for which the customer does not specify grooming, bridging or NRS functions; or
- service provided between a customer designated premises and an Expanded Interconnection Multiplexing Node or virtual collocation arrangement (NES DS1 AND NES DS3 only) for which the customer does not specify grooming functions.

When NYNEX Enterprise Services are ordered with customer specified grooming or bridging functions or NYNEX Enterprise Network Reconfiguration Service (NRS) functions, the Telephone Company will design NYNEX Enterprise Services to the Hub specified by the customer. These service configurations includes:

- service provided between customer designated premises through the Telephone Company Hub specified by the customer; or
- service provided between Telephone Company Hubs where grooming, bridging or NRS functions are performed; or
- service provided between a customer designated premises and an Expanded Interconnection Multiplexing Node or virtual collocation arrangement (DS1 and DS3 only) through the Telephone Company grooming Hub specified by the customer.

When NYNEX Enterprise Services are ordered to a IDSR CO Node equipped with Add/Drop Multiplexing capability or IntelliLight® Entrance Facility (IEF) service with a DS3 interface, the Telephone Company will design NYNEX Enterprise Service to the IDSR CO Node specified by the customer or IEF equipped wire center, as applicable.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 NYNEX Enterprise Services*

(A) General (Cont'd)

The following functions are performed at Telephone Company Hubs through which NYNEX Enterprise Services are configured.

(1) Grooming Functions

Basic grooming functions are performed at designated Telephone Company Hubs and provide for lower capacity services to ride channels of a higher capacity service. Up to twenty-four lower capacity services may be groomed on to a single NES DS1. The NES DS1 grooming arrangement may include any combination of lower capacity NES DSO, NES FDS1, NES SDA and/or NES Voice Services, provided that the combined bit rate of the derived services does not exceed the available bit rate of the NES DS1 facility. The Telephone Company will work cooperatively with the customer in determining the possible combinations for the NES DS1 grooming arrangement. At the customer's option, a NES DS1 facility may also be groomed on to a NES DS3 facility.

When more than one stage of grooming is requested (e.g., cascade grooming or ThruPath connections as described in Section 7.4.7 following), the grooming functions may be performed in the same or different Hub.

A maximum of twenty-eight NES DS1 Services or 1.544 Mbps High Capacity Services, or a combination of NES DS1 and 1.544 Mbps High Capacity Services, may be groomed on to a single NES DS3.

(2) NYNEX Enterprise Network Reconfiguration Service Functions

NYNEX Enterprise Network Reconfiguration Service functions are described in Section 19. following.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services*(B) Connection of Voice Grade Service, DIGIPATH digital service II and High Capacity Services

Where suitable NES facilities are unavailable to the customer premises, service may be configured as follows.

- (1) The customer may order DIGIPATH digital service II (DSS II) or Voice Grade Special Access Service in conjunction with a NES DS0 channel or may groom the Voice Grade or DDS II Service on to a NES DS1 channel. The serving wire center associated with the customer designated premises of the DDS II or Voice Grade Service will be designated as a NYNEX Enterprise Services Extension Hub (NES Extension Hub) for the purpose of applying the rates and charges for the service provided. The application of rates and charges involving service period through a NES Extension Hub are set forth in (H) following.

If facilities which are suitable to provide NES DS0 to the customer designated premises become available, the Telephone Company will work cooperatively with the customer in determining if conversion to such facilities should occur.

When NYNEX Enterprise Service is provided in conjunction with Voice Grade or DDS II, and that service is also to be provided with NYNEX Enterprise Network Reconfiguration Service (NRS) as set forth in Section 19. following, no more than fifty percent (50%) of the total services connected to NRS Network Access Ports at a single NRS Hub may be Voice Grade Service, DDS II or High Capacity Service provided in conjunction with NYNEX Enterprise Service.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services*(B) Connection of Voice Grade Service, DIGIPATH digital service II and High Capacity Service (Cont'd)

- (2) The customer may order High Capacity 1.544 Mbps or 44.736 Mbps Service in conjunction with NES DS1 or NES DS3. For 1.544 Mbps High Capacity Service, the customer may also include that service in a grooming arrangement with NES DS3. The serving wire center associated with the customer designated premises of the High Capacity Service will be designated as a NYNEX Enterprise Services Extension Hub (NES Extension Hub) for the purpose of applying the rates and charges for the service provided. The application of rates and charges involving service provided through a NES Extension Hub are set forth in (H) following.

If facilities which are suitable to provide NES DS1 or NES DS3, as applicable, become available, the Telephone Company will work cooperatively with the customer in determining if conversion to such facilities should occur.

When NYNEX Enterprise Service is provided in conjunction with High Capacity Service, and that service is also to be provided with NYNEX Enterprise Network Reconfiguration Service (NRS) as set forth in Section 19. following, no more than fifty percent (50%) of the total services connected to NRS Network Access Ports at a single NRS Hub may be Voice Grade Service, DDS II or High Capacity Service provided in conjunction with NYNEX Enterprise Service.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(C) NES Channel Descriptions

The following channels are available with NYNEX Enterprise Service.

- DS0 channels for the transmission of analog or digital signals at transmission speeds of 2.4, 4.8, 9.6, 19.2, 56.0 or 64.0 kbps.
- Fractional DS1 channels for the transmission of digital signals over the bandwidth of adjacent (contiguous) channels through a common interface at transmission speeds of 128.0, 256.0, 384.0, 512.0 and 768.0 kbps.
- DS1 channels for the transmission of digital signals at transmission speeds of 1.544 Mbps.
- DS3 channels for the transmission of digital signals at transmission speeds of 44.736 Mbps.
- Shared Digital Access for the 1.544 Mbps transmission of individual channels providing automatic or manual ring down functionality.
- Voice channels for the transmission of analog signals directly into a suitably equipped digital cross-connect system at a DS1 level.

Each channel is described in further detail in (1) through (6) following.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(C) NES Channel Descriptions (Cont'd)(1) DSO Channels

NES DS0 channels are digital channels operating within a maximum bandwidth capacity of 64.0 kbps. NYNEX Enterprise Service DS0 network management functions performed remotely from a single point of contact are (i) provisioning of network facilities and (ii) monitoring and surveillance for the purpose of maintaining and restoring network services. NYNEX Enterprise Service channel configurations are specified in (A) preceding.

NES DS0 channels operating at 56.0 kbps may also provide access to Frame Relay Service as set forth in Section 17.3 following.

NES DS0 channels may be provided in conjunction with NYNEX Enterprise Network Reconfiguration Service as set forth in Section 19. following.

NES DS0 channels are available in two service configurations as follows:

(a) NES DS0 Standard Service

A NES DS0 Standard Service consists of Telephone Company provided network equipment deployed at customer locations other than on the customer's designated premises. The Telephone Company's network equipment enables the Telephone Company to provision DS0 circuits and to perform remotely, from a single point of contact, the network functions of monitoring and surveillance.

The technical specifications for NES DS0 Standard Service are set forth in (D)(1) following.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(C) NES Channel Descriptions (Cont'd)(1) DS0 Channels (Cont'd)(b) NES DS0 Prime Service

A NES DS0 Prime Service consists of customer provided equipment deployed on customer designated premises to enable the provision of NES DS0 circuits. The customer must provide the necessary equipment at its premises to enable the Telephone Company to deliver NES DS0 circuits and to perform remotely, from a single point of contact, the network functions of monitoring and surveillance.

The technical specifications and compatibility requirements associated with the customer provided equipment for NES DS0 Prime Service are set forth in (D)(2) following. In addition, the customer provided equipment must be capable of delivering NES DS0 Service to the specifications set forth in (D)(1) following.

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- 7. Special Access Service (Cont'd)
- 7.2 Service Descriptions (Cont'd)
- 7.2.13 NYNEX Enterprise Services* (Cont'd)
- (C) NES Channel Descriptions (Cont'd)
- (1) DS0 Channels (Cont'd)
- (b) NES DS0 Prime Service (Cont'd)

In order to prevent false indication of an inoperative condition and to protect security of communications, the customer must notify the Telephone Company prior to accessing customer provided equipment deployed on its premises to enable the provision of NYNEX Enterprise Service in a NES DS0 Prime Service configuration.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(C) NES Channel Descriptions (Cont'd)(1) DS0 Channels (Cont'd)

A NES DS0 Service may be provisioned with a combination of one Standard Service and one Prime Service. NES DS0 Standard channels and NES DS0 Prime channels may be groomed on to the same NES DS1 channel at the NES Hub.

The type of channel termination (i.e., analog or digital) is a function of the channel interface selected by the customer. Analog channel interfaces may be either two-wire or four-wire interfaces for the transmission of analog signals over the digital facility. Digital channel interfaces are four-wire interfaces for the transmission of digital signals at transmission speeds of 2.4, 4.8, 9.6, 19.2, 56.0 or 64.0 kbps.

Channel mileage, when applicable, will apply as set forth in (H) following.

The channel interfaces for NES DS0 channels are specified in (E) following.

The Optional Features and Functions which are available for use with NES DS0 channels are specified in (F) following.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(C) NES Channel Descriptions (Cont'd)(2) Fractional DS1 Channels

NES Fractional DS1 channels are digital channels operating over the combined bandwidth of adjacent channels to create a contiguous bit rate. The bandwidth provided to the customer is fractional (proportional) to the 1.544 Mbps of bandwidth provided with NES DS1 channels (e.g., 384.0 kbps is one fourth of the available bandwidth of NES DS1). NES Fractional DS1 network management functions performed remotely from a single point of contact are (i) provisioning of network facilities and (ii) monitoring and surveillance for the purpose of maintaining and restoring network services.

NES Fractional DS1 channels provide simultaneous, two-way digital transmission at contiguous bit rates of 128.0, 256.0, 384.0, 512.0 or 768.0 kbps. NES Fractional DS1 channels may also be provided in conjunction with NYNEX Enterprise Network Reconfiguration Service as set forth in Section 19. following. NYNEX Enterprise Service channel configurations are specified in (A) preceding. (C)

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 NYNEX Enterprise Services* (Cont'd)

(C) NES Channel Descriptions (Cont'd)

(2) Fractional DS1 Channels (Cont'd)

The contiguous bit rate is determined by the channel interface selected by the customer. The channel interfaces for NES Fractional DS1 channels are specified in (E) following.

Network equipment to enable the provision of NYNEX Enterprise Fractional DS1 Service shall be deployed in common space within the building and not on customer premises.

Channel mileage, when applicable, will apply as set forth in (H) following.

The Optional Features and Functions which are available for use with NES Fractional DS1 channels are specified in (F) following.

* New York Telephone only.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 NYNEX Enterprise Services* (Cont'd)

(C) NES Channel Descriptions (Cont'd)

(3) DS1 Channels

NES DS1 channels are digital channels for the simultaneous, two-way digital transmission of 1.544 Mbps synchronous serial data. The actual bit rate and framing formats are a function of the channel interface selected by the customer. NES DS1 channel configurations are specified in (A) preceding.

(D)
(D)

NES DS1 may also be provided in conjunction with NYNEX Enterprise Network Reconfiguration Service as set forth in Section 19. following.

Channel mileage, when applicable, will apply as set forth in (H) following.

The channel interfaces for NES DS1 channels are specified in (E) following.

The Optional Features and Functions which are available for use with NES DS1 channels are specified in (F) following.

* New York Telephone only.

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ACCESS SERVICE

7. Special Access Service (Cont'd)
- 7.2 Service Descriptions (Cont'd)
- 7.2.13 NYNEX Enterprise Services* (Cont'd)
- (C) NES Channel Descriptions (Cont'd)
- (4) DS3 Channels

NES DS3 channels are digital channels for the simultaneous, two-way transmission of 44.736 Mbps isochronous serial data. The actual bit rate and framing formats are a function of the channel interface selected by the customer. NYNEX Enterprise Service channel configurations are specified in (A) preceding.

NES DS3 may be provided in conjunction with NYNEX Enterprise Network Reconfiguration Service as specified in Section 19. following.

Channel mileage, when applicable, will apply as set forth in (H) following.

The channel interfaces for NES DS3 channels are specified in (E) following.

The Optional Features and Functions which are available for use with NES DS3 channels are specified in (F) following.

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ACCESS SERVICE

7. Special Access Service (Cont'd)
- 7.2 Service Descriptions (Cont'd)
- 7.2.13 NYNEX Enterprise Services* (Cont'd)
- (C) NES Channel Descriptions (Cont'd)
- (5) Shared Digital Access (SDA)

NES SDA are channel terminations which provide for the 1.544 Mbps transmission of channels which are arranged for manual or automatic ring down functionality. These channel terminations must be provided in conjunction with NES DS0 channels which are also arranged for manual or automatic ring down functionality or may be groomed on to a NES DS1 facility. If the serving wire center of the customer designated premises is not a NES Hub, the serving wire center will be designated as a NYNEX Enterprise Service Extension Hub (NES Extension Hub). When the serving wire center is designated as a NES Extension Hub, NES DS0 channel mileage will apply as set forth in (H) following to each channel within the 1.544 Mbps signal. Connection to other NES SDA channel terminations is prohibited. The customer must provide compatible equipment which is capable of deriving the individual channels from the 1.544 Mbps digital signal. Such equipment must meet the technical requirements delineated in Technical Reference Pub 62411.

The channel interfaces for NES SDA are the NES DS0 channel interfaces which are capable of providing manual or automatic ring down functionality. NES DS0 channel interfaces are specified in (E)(1) following.

The Telephone Company will maintain separate billing and records for the individual channels within the 1.544 Mbps signal.

The Optional Features and Functions which are available for NES SDA are set forth in (F) following.

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ACCESS SERVICE

7. Special Access Service (Cont'd)
- 7.2 Service Descriptions (Cont'd)
- 7.2.13 NYNEX Enterprise Services* (Cont'd)
- (C) NES Channel Descriptions (Cont'd)
- (6) NYNEX Enterprise Voice

NYNEX Enterprise Voice Service (NES Voice) consists of channel terminations which utilize subscriber line carrier technology and fiber optic facilities for the transmission of analog signals between a customer designated premises and its serving wire center. These channels must be provided in conjunction with NES DS0 channels of the same speed or type. At the customer's option, NES Voice channels may be groomed to a NES DS1 facility. If the serving wire center of the customer designated premises to which NES Voice channels are provided is not a NES Hub, the serving wire center will be designated as a NYNEX Enterprise Service Extension Hub (NES Extension Hub). When the serving wire center is designated as a NES Extension Hub, NES DS0 channel mileage will apply as set forth in (H) following for each NES Voice channel. Connection to other NES Voice channel terminations is prohibited.

Due to limited availability of suitable facilities and equipment, NES Voice will only be provided where suitable fiber optic facilities, digital cross-connect technology and subscriber line carrier technology already exist for such service.

The channel interfaces for NES Voice are the analog, 2-wire channel interfaces specified for NES DS0 in (E)(1) following.

The Optional Features and Functions which are available for NES Voice are set forth in (F) following.

The technical specifications for NES Voice channels are delineated in Technical Reference TR-TSY-000335.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(D) Technical Specifications

Technical equipment requirements, compatibility requirements, technical specifications, features and functions, and performance parameters for NYNEX Enterprise Services channels are contained in:

(1) NES DS0 Standard Service

Technical References TR-TSY-000335, PUB 41004, Table 4 and TR-NPL-000157, PUB 62310, NTR 74374, Issue No. 2 and NTR 74375, Issue No. 2.

(2) NES DS0 Prime Service

Customer provided equipment requirements for NES DS0 Prime Service are contained in Newbridge Intelligent Network Node Interface Specification, PRD 0004.

(3) NES Fractional DS1 Service

Technical Reference PUB 62411.

(4) NES DS1 Service

Technical References TR-NPL-000054 and PUB 62411.

(5) NES DS3 Service

Technical Reference TR-INS-000342.

(6) NES SDA

Technical Reference PUB 62411.

(7) NES Voice

Technical Reference TR-TSY-000335.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(E) Channel Interfaces

The following channel interfaces (CIs) are available with NYNEX Enterprise Service:

(1) DS0 Channel Interfaces

CI (Analog)

2AC2	4EA2-E
2LA2	4EA2-M
2LB2	6EA2-E
2LC2	6EA2-M
2LR2-A	6EB2-E
2LS2	6EB2-M
4DA2	8EB2-E
4NO2	8EB2-M

CI (Digital)

4DU5-24	2.4 kbps
4DU5-48	4.8 kbps
4DU5-96	9.6 kbps
4DU5-19	19.2 kbps
4DU5-56	56.0 kbps
4DU5-64	64.0 kbps

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

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 NYNEX Enterprise Services* (Cont'd)

(E) Channel Interfaces (Cont'd)

(2) Fractional DS1 Channel Interfaces

CI

4DS9.15B*
4DS9.15S*
4DS9.1S*

* Applicable for 128.0, 256.0, 384.0, 512.0 or 768.0 kbps.

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

(3) DS1 Channel Interfaces

CI

4CS9.1K**
4CS9.1S**
4CS9.15**
4CS9.15B
4CS9.15K**
4CS9.15S

CI

4DS9.1K**
4DS9.1S**
4DS9.15**
4DS9.15B
4DS9.15S

CI

4DU9.1KN**
4DU9.1SN**
4DU9.BN**
4DU9.KN**

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

(4) DS3 Channel Interfaces

CI

4CS9.44
4DS9.44

CI

4DS6.44C**
4DS6.44G**

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

* New York Telephone only.

** Available only on service which originates in the North New Jersey LATA of the New York - New Jersey Corridor.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 NYNEX Enterprise Services* (Cont'd)

(E) Channel Interfaces (Cont'd)

(5) Shared Digital Access Channel Interfaces

CI

Channel Interfaces for Shared Digital Access are the NES DS0 channel interfaces which are capable of providing automatic or manual ring down functionality. NES DS0 channel interfaces are specified in (1) preceding.

(6) Voice Channel Interfaces

CI

Channel Interfaces for NES Voice are the two-wire analog channel interfaces for NES DS0 as specified in (1) preceding.

* New York Telephone only.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(F) Optional Features and Functions

The following matrix identifies the Optional Features and Functions which are available for NYNEX Enterprise Services. A description of each feature or function is set forth following the matrix.

<u>Feature or Function</u>	<u>DS0</u>	<u>FDS1</u>	<u>DS1</u>	<u>DS3</u>	<u>SDA</u>	<u>Voice</u>
Flexible DS0 Data Speed	X					
Central Office Bridging	X					
Reconfiguration Capability	X	X	X	X	X	X
Bandwidth on Request		X				
Network Emergency Planning						
Dual Homing	X	X	X	X	X	X
Standby Circuits			X	X		
Corridor Service Single						
Ordering and Billing Option			X	X		

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(F) Optional Features and Functions (Cont'd)(1) Flexible DS0 Data Speed

An arrangement which enables a change in the data rate (e.g., from 2.4 kbps to 9.6 kbps) at which a NES DS0 channel is provided over a digital four-wire channel interface. The data rate may be changed to 2.4 kbps, 4.8 kbps, 9.6 kbps, 19.2 kbps, 56.0 kbps or 64.0 kbps. This option is not available with NES DS0 which is provided over an analog channel interface, included in a multipoint arrangement or provided in conjunction with DDS II.

The charge for Flexible Data Speed is set forth in Section 31.7.15 following.

(2) DS0 Central Office Bridging

An arrangement to connect three or more customer designated premises in a multipoint arrangement. For analog channels, a maximum of forty-one customer designated premises may be included in the multipoint arrangement. For digital channels, a maximum of seventeen customer designated premises may be included in the multipoint arrangement. All channels included in the multipoint arrangement must have the same type of channel interface (i.e., all analog channel interfaces or all digital channel interfaces operating at the same transmission speed).

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(F) Optional Features and Functions (Cont'd)(3) Reconfiguration Capability

An arrangement which enables a NYNEX Enterprise Services to be reconfigured to an alternate configuration. The customer must have available adequate bandwidth capacity between the locations involved for the alternate configuration. The Telephone Company will work cooperatively with the customer in determining the availability of such facilities. The services to be redirected between the primary and alternate configurations must have the same operating characteristics (e.g., same speed or type) and have compatible channel interfaces. A prearranged reconfiguration plan which includes a primary configuration and an alternate configuration must be created and maintained for use in responding to customer requests for service redirection.

The following reconfiguration capability options are available to all NES bandwidth capacities.

(a) Requested Reconfiguration

Requested Reconfiguration enables NYNEX Enterprise Service to be reconfigured to an alternate configuration in response to the customer requesting that service be redirected.

Requested Reconfiguration requires that the customer's NYNEX Enterprise Services be ordered in conjunction with NYNEX Enterprise Network Reconfiguration Service as set forth in Section 19. following.

The rates and charges for Requested Reconfiguration are the rates and charges specified for NYNEX Enterprise Network Reconfiguration Service as set forth in Section 19. following.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(F) Optional Features and Functions (Cont'd)(3) Reconfiguration Capability (Cont'd)

(b) Scheduled Reconfiguration

Scheduled Reconfiguration enables NYNEX Enterprise Services to be reconfigured to an alternate configuration on a scheduled basis. For each bandwidth capacity, the customer must provide the Telephone Company with a schedule consisting of (i) the primary configuration, (ii) the alternate configuration, (iii) the time and day(s) the alternate configuration is to be activated (e.g., daily at 8:00 PM) and (iv) the duration for which the alternate configuration is to be in effect before the service is restored to its primary configuration. Each scheduled reconfiguration must have a duration of fifteen (15) minutes or more. The scheduled reconfiguration may not be repeated more than once in a twenty-four hour period.

Scheduled Reconfiguration requires that the customer's NYNEX Enterprise Services be ordered in conjunction with NYNEX Enterprise Network Reconfiguration Service as set forth in Section 19. following.

The rates and charges for Scheduled Reconfiguration are the rates and charges specified for NYNEX Enterprise Network Reconfiguration Service as set forth in Section 19. following.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(F) Optional Features and Functions (Cont'd)(3) Reconfiguration Capability (Cont'd)

(c) Emergency Reconfiguration

Emergency Reconfiguration allows for the customer to plan for an emergency or failure which renders its NYNEX Enterprise Services inoperative.

With this option, NYNEX Enterprise Services may be reconfigured to an alternate configuration following an emergency (as defined by the customer) or failure which renders the service inoperative, provided the alternate configuration is not affected by the emergency or failure. The customer must have available adequate bandwidth capacity for the alternate configuration between the locations involved. Each NYNEX Enterprise Service may be included in several alternate configurations for different emergency conditions. The customer may also assign priority levels to each of the services. The priority level will determine the order in which the services are reconfigured. The Telephone Company will work cooperatively with the customer in determining the availability of such facilities.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 NYNEX Enterprise Services* (Cont'd)

(F) Optional Features and Functions (Cont'd)

(3) Reconfiguration Capability (Cont'd)

(c) Emergency Reconfiguration (Cont'd)

A prearranged restoration plan must be created and maintained for use in the event of an emergency or failure. The restoration plan must include a primary configuration, the alternate configuration(s) and when appropriate the service priority level. In addition, when different alternate configurations are assigned for different emergency conditions, the customer must identify the condition along with its associated alternate configuration in the restoration plan.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 NYNEX Enterprise Services* (Cont'd)

(F) Optional Features and Functions (Cont'd)

(3) Reconfiguration Capability (Cont'd)

(c) Emergency Reconfiguration (Cont'd)

In the event of an emergency or failure, the Telephone Company will reconfigure the affected services in accordance with instructions previously provided by the customer in its restoration plan.

Emergency Reconfiguration requires that the customer's NYNEX Enterprise Services be ordered in conjunction with NYNEX Enterprise Network Reconfiguration Service as specified in Section 19. following.

The rates and charges for Emergency Planning are the rates and charges for NYNEX Enterprise Network Reconfiguration Service as specified in Section 19. following.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(F) Optional Features and Functions (Cont'd)(4) Bandwidth on Request

An arrangement which establishes additional temporary NES Fractional DS1 bandwidth between a customer designated premises and a NES Hub for a specified period of time. The time periods for which bandwidth on demand may be activated are 4 hours, 8 hours, 12 hours or 24 hours.

Bandwidth on Request is subject to the availability of capacity within the transmission facilities connecting the customer designated premises and the Telephone Company Hub to which the bandwidth is requested. The customer must specify the total bandwidth desired (e.g., 512.0 kbps). The bit rate of the requested bandwidth, when combined with the bit rate of the bandwidth already being utilized, may not exceed the available capacity of the 1.544 Mbps facility.

The rates and charges for use of the temporary bandwidth apply per point of termination and are determined by the time period specified by the customer and the data rate of the service provided. The customer may extend its use of the temporary bandwidth by combining two or more time periods in which case the charge for each time period will apply. For example, if eight hours of bandwidth on demand is ordered, the customer may combine the 8 hour time period with another time period of 12 hours to extend its use of the bandwidth to 20 hours. The charge to the customer will be the rates and charges for the initial time period of 8 hours and the charge for the additional time period of 12 hours.

At the NES Hub, the temporary bandwidth may be connected to other temporary bandwidth of the same bandwidth capacity or groomed to available capacity of a higher bit rate NES channel as specified in (A) preceding.

* New York Telephone only.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(F) Optional Features and Functions (Cont'd)(5) Network Emergency Planning

(a) Dual Homing

A Dual Homing arrangement allows NES channel terminations to be provided through a wire center other than the wire center that normally serves the customer's premises.

A Dual Homing arrangement consists of an alternate route channel termination between the customer designated premises and a wire center other than the normal serving wire center for that premises. The wire center associated with the alternate route will be specified by the Telephone Company. When applicable, the mileage used to determine the channel mileage rate for the Dual Homing channels is based on the wire center to which the Dual Homing channel termination is ordered.

A monthly rate applies for each channel termination provided to a wire center other than the wire center which would normally serve the customer premises. The monthly rate for Dual Homing applies for each channel termination in addition to all other rates and charges associated with the NES channel's alternate route.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(F) Optional Features and Functions (Cont'd)(5) Network Emergency Planning (Cont'd)

(b) Standby Circuits

This optional feature provides for the customer's NES DS1 or NES DS3 Service to be protected by a standby (inactive) circuit which may be activated in the event of a service affecting failure at the customer's designated premises. A standby circuit must work in conjunction with one or more working (active) circuits allowing for interchanging a working circuit with the standby circuit in the event of a failure. The standby circuit may include only the portion of the service between the customer designated premises and the NES Hub or may include interoffice facilities between NES Hubs as well. Should an event occur at the customer designated premises which interrupts a working service, the customer must contact the Telephone Company SPOC to reconfigure the standby circuit to an active condition and to make the service which was previously working inactive. Only one of the circuits (i.e., a working or the standby) may be active at a time. Both the working service(s) and the standby service must be connected to NYNEX Enterprise Network Reconfiguration Service Network Access Ports as set forth in Section 19. following allowing for a working service to be interchanged with the standby service.

The monthly rates for this optional feature include a standby channel termination, standby NRS Network Access Port as set forth in Section 31.19 following, and, when applicable, standby channel mileage. These rates apply in addition to the rates applicable to the primary (working) service(s). In addition, each working circuit must be connected to a non-standby NRS Network Access Port as set forth in Section 31.19.2(G) or (I) following. NYNEX Enterprise Network Reconfiguration SPOC Access as set forth in Section 19.4.1 following is also required. Access to the SPOC provides the customer with the ability to contact the Telephone Company SPOC attendant to interchange a working circuit with a standby circuit.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 NYNEX Enterprise Services* (Cont'd)

(F) Optional Features and Functions (Cont'd)

(5) Network Emergency Planning (Cont'd)

(b) Standby Circuits (Cont'd)

Example: NES connecting two customer designated premises, one of which is protected by a standby circuit

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** Requires NYNEX Enterprise Network Reconfiguration Service SPOC Access as set forth in Section 19.4.1(B)(4) following and Network Access Ports as set forth in Section 19.4.2 following.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 NYNEX Enterprise Services* (Cont'd)

(F) Optional Features and Functions (Cont'd)

(7) Shared Billing Arrangement

A Shared Billing Arrangement allows for the connection of one or more Service Users' Special Access, Switched Access or Common Channel Signaling Access Services to a Host Computer's groomed NYNEX Enterprise DS1 or DS3 Service in Telephone Company wire centers designated as NES Hubs, with the Telephone Company maintaining separate records and billing for each. The Telephone Company will split the billing at the NES Hub for each service connected to the NYNEX Enterprise DS1 or DS3 service.

A Shared Billing Arrangement also allows for the connection of one or more Service Users' DS1, DS3 or STS1 Switched Access Services, Common Channel Signaling Access Services or NYNEX Enterprise DS1 or DS3 Special Access Services to a Host Customer's IntelliLight® Dedicated SONET Ring (IDSR) at wire centers with IDSR SONET multiplexing capability, with the Telephone Company maintaining separate records and billing for each. For each service connected to IDSR, the Telephone Company will split the billing at the CO Node (i.e., SONET multiplexer) with any associated central office extension and, when applicable, associated premises port being the responsibility of the Service User.

(C)
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(C)

Each customer will be billed for those rate elements associated with its own portion of the service configuration. Under no circumstances will the rates or charges for individual rate elements be split. This arrangement is only available when (1) a NES DS3 is groomed to a NES DS1; or (2) when a NES DS1 is groomed to a NES Fractional DS1, a NES DS0, a NES SDA, and/or a NES Voice service; or (3) a Switched Access or Common Channel Signaling Access Service is provided over a NYNEX Enterprise Service facility under the regulations set forth in Section 5.2.7 preceding or (4) IDSR is provided to a CO Node for Add/Drop Multiplexing. Hubbing locations are set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., TARIFF F.C.C. No. 4.

(Z)
(Z)

Certain regulations previously found on this page can now be found on 1st Revised Page 7-128.

* New York Telephone only.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(F) Optional Features and Functions (Cont'd)(7) Shared Billing Arrangement (Cont'd)

Each customer may order its individual portion of the multiplexed or groomed service separately from the Telephone Company. However, the ordering customer must obtain and provide a copy of a signed letter(s) of authorization, as described in Section 5.2 preceding, to the Telephone Company when placing an order for a Shared Billing Arrangement. The letter of authorization must be signed by both the Host Customer and the Service User and include the Connecting Facility Assignment and Billing Account Number of the Host Customer's service.

(T)
(T)
(M)

Each customer will be billed the applicable tariff rates and charges set forth in Section 31. following for its individual service(s).

(M)

Each customer shall be responsible, when applicable, for reporting service outages for its portion of the groomed service. Out of service adjustments will be handled in accordance with Credit Allowance for Service Interruptions as set forth in Section 2.4.4 preceding. The Maintenance of Service charge applies, as set forth in Section 13.3.1 following, to the customer whose service is reported in trouble.

Under a Shared Billing Arrangement, the Telephone Company may share with the Host Customer record information pertaining to the groomed service(s) of the Service User(s). Such disclosure will be at the sole discretion of the Telephone Company as necessary to perform billing reconciliations or other functions required in connection with maintaining separate account records.

A customer may request a Shared Billing Arrangement for an existing NYNEX Enterprise DS1 or DS3 Service with an existing Service Discount Plan. The regulations pertaining to such request are set forth in Section 7.4.10 following.

Section 7.4.11 contains rate regulations specific to Shared Billing Arrangements.

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Certain regulations on this page formerly appeared on Original Page 7-127.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(F) Optional Features and Functions (Cont'd)(8) Corridor Service Single Ordering and Billing Option

The Corridor Service Single Company Ordering and Billing Option enables the customer to place, with the Telephone Company, a single Access order for point to point NES DS1 and NES DS3 services provided between two customer designated premises in the New York-New Jersey Corridor.

The Telephone Company will be responsible for all provisioning and maintenance functions associated with the service(s) provided between the two Exchange Telephone Companies serving the New York-New Jersey Corridor including, but not limited to, arrangement for any provisioning and maintenance which involves the other Exchange Telephone Company.

In addition, the Telephone Company will provide a single monthly bill for the service(s) provided between the New York-New Jersey Corridor. The Telephone Company will apply the NES DS1 or NES DS3 channel termination and channel mileage monthly rate elements specified in Section 31. following to the end to end service. In addition, a Corridor Service Single Ordering and Billing Option monthly rate, as specified in Section 31.7 following, will apply per NES DS1 or NES DS3 service provided with the Corridor Service Single Ordering and Billing Option. Regulations specified in 7.4.1(C)(1) following will apply to the end to end service in the event that service is disconnected prior to satisfying the NES DS1 or NES DS3 nonrecurring charge recovery period.

Optional Features and Functions and Vertical Services (i.e., NRS or FRS), normally available with NES DS1 and DS3 service, will not be provided with services which are ordered under this option.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 NYNEX Enterprise Services* (Cont'd)(G) Availability of Facilities

NYNEX Enterprise Services, and when applicable, NES optional features and functions, are provided where suitable NES fiber optic facilities exists to provide such service. Where suitable NES fiber optic facilities do not exist, subject to the provisions of 2.1.4 Provision of Services, and 5.1.3 Special Construction preceding, NYNEX Enterprise Services will be provided within one year from receiving a customer's request for service or, in the case of special construction, within one year from the date the special construction agreement is signed by the customer or a mutually agreed upon alternative is found.

The NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 identifies the serving wire centers through which NYNEX Enterprise Services are available, the bandwidth capacities available and the grooming functions performed in each wire center.

(H) Rate Regulations

Rates and charges for NYNEX Enterprise Services channel terminations apply per point of termination and are differentiated by type of service (e.g., analog or digital) and the bandwidth capacity involved. NYNEX Enterprise Services channel mileage, when applicable, applies as follows.

- (1) For two point service which is not groomed, channel mileage applies between the serving wire centers associated with the locations involved.
- (2) For multipoint service, channel mileage applies between each customer designated premises and the NES Hub where the bridging function is performed.

* New York Telephone only.

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Vice President
2980 Fairview Park Drive, Falls Church, VA 22042

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 NYNEX Enterprise Services* (Cont'd)

(H) Rate Regulations (Cont'd)

(3) For groomed services, channel mileage applies between the serving wire center associated with each customer designated premises, Expanded Interconnection multiplexing node or virtual collocation arrangement and the NES Hub where the grooming is performed, or between NES Hubs if grooming is performed at different NES Hubs.

(D)
|
(D)

(4) When NES is provided in conjunction with NYNEX Enterprise Network Reconfiguration Service, channel mileage applies between the serving wire center associated with the customer designated premises or NES Hub, as applicable, and the Telephone Company Hub where the NYNEX Enterprise Network Reconfiguration Service functions are performed.

(T)

(5) For services provided through a NES Extension Hub, channel mileage, when applicable, will apply as NYNEX Enterprise Service channel mileage.

(T)

* New York Telephone only.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 NYNEX Enterprise Services* (Cont'd)

(H) Rate Regulations (Cont'd)

The rates and charges for NYNEX Enterprise Services are set forth in Section 31.7.15 following. When NYNEX Enterprise Services are provided in conjunction with NYNEX Enterprise Network Reconfiguration Service, the rates and charges for NYNEX Enterprise Network Reconfiguration Service as set forth in Section 31.19 following also apply. (C)

At the option of the customer, NYNEX Enterprise Services may be provided under a Service Discount Plan as specified in 7.4.10 following or a Commitment Discount Plan as specified in 25.1 following.

When service is configured with Voice Grade Service, DIGIPATH digital service II or High Capacity Service through a serving wire center which has been designated as a NES Extension Hub, the applicable channel termination rates and charges for the type of service being provided apply for the portion of the service between the customer designated premises and the associated serving wire center (NES Extension Hub). The rates and charges for Voice Grade Service, DIGIPATH digital service II and High Capacity Service channel terminations are set forth in 31.7.3, 31.7.12 and 31.7.9 following, respectively.

Minimum period requirements and nonrecurring charge liability requirements will not be affected by changes to NYNEX Enterprise Services performed in compliance with the Telephone Company's deployment of facilities suitable for the provision of NES as set forth in (B) preceding.

* New York Telephone only.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Advanced Video Services(A) Advanced Uncompressed Digital Video Service(1) Channel Description

Advanced Uncompressed Digital Video Service (AUDVS) is a channel with one-way optical transmission capability of multiple, 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. When arranged with 8 bit encoding, each video signal within the AUDVS channel includes up to two associated 20 kHz audio signals or one Broadcast Television Systems Committee (BTSC) stereo audio signal. When arranged with 10 bit encoding, each video signal within the AUDVS channel includes up to four associated 20 kHz audio signals.

AUDVS channels are provided between customer designated premises for two-point configurations or between customer designated premises and a Telephone Company Hub where service may be bridged into a multipoint configuration.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Advanced Video Services (Cont'd)(A) Advanced Uncompressed Digital Video Service (Cont'd)(1) Channel Description (Cont'd)

The Telephone Company will deploy the necessary video enabling equipment in order to satisfy the customer's order for its video and audio signal requirements. The customer must specify the audio signal(s) which are to be associated with each video signal within the AUDVS channel. The number and type of audio signal(s) are a function of the channel interface selected by the customer. Each video signal and its associated audio signal(s) will be designated as a channel termination for the purpose of applying the regulations and rates and charges for AUDVS as follows.

- Transmit Channel Termination (First or Additional)

The Transmit Channel Termination allows one video signal and its associated audio signal(s) to be transmitted, or originated, over the AUDVS channel to one or more Receive Channel Terminations.

- Receive Channel Termination (First or Additional)

The Receive Channel Termination allows receipt of one incoming video signal and its associated audio signal(s).

- Dual Transit Channel Termination

The Dual Transmit Channel Termination allows the identical video and audio signals of one AUDVS channel to be transmitted over a second AUDVS channel. The Dual Transmit Channel Termination will also allow the identical video and audio signals which are received over one AUDVS channel to be retransmitted over a second AUDVS channel. In either case, the Dual Transmit Channel Termination will apply in lieu of any applicable Transmit Channel Terminations which would normally be required to transmit the video and audio signals over the second channel.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Advanced Video Services (Cont'd)(A) Advanced Uncompressed Digital Video Service (Cont'd)(1) Channel Description (Cont'd)- Dual Transmit Channel Termination (Cont'd)

The Dual Transmit Channel Termination is available only where two AUDVS channels are provided at the same customer designated premises. One channel shall utilize the Dual Transmit Channel Termination and the other channel must utilize the applicable Transmit or Receive Channel Terminations required for the number of video signals provided.

AUDVS will be provided where suitable single mode fiber optic facilities exist to provide such service. Where suitable single mode fiber optic facilities do not exist, subject to the provisions of 2.1.4 Provision of Services, and 5.1.3 Special Construction preceding, AUDVS will be provided within one year from receiving a customer's request for service, or in the case of special construction, within one year from the date the special construction agreement is signed by the customer.

The technical specifications for AUDVS are delineated in Technical Publications TR-INS-000342, TR-NPL-000337 and TR-TSV-000338, Issue No. 2.

At the option of the customer, AUDVS may be provided under a Service Discount Plan as set forth in 7.4.10 following.

(2) Optional Features and Functions(a) Video Bridging (USOC BCNVD)

Video bridging enables AUDVS to be provided in a multipoint service configuration. With Video Bridging, the same video signal that is transmitted from one customer designated premises is received by all other customer designated premises included in the multipoint arrangement. Bridging of AUDVS channels will be performed at Telephone Company Hubs. For the purpose of Video Bridging, all Telephone Company serving wire centers have been designated as Telephone Company Hubs.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Advanced Video Services (Cont'd)(A) Advanced Uncompressed Digital Video Service (Cont'd)(3) Channel Interfaces

The following channel interfaces (CIs) define the manner of provision and number of audio signal(s) associated with a AUDVS channel:

<u>CI</u>	<u>Description</u>
4TV6-0	Video signal only (no audio)
4TV6-20	Video and one 20 kHz audio signal
4TV6-17	Video and one composite BTSC stereo audio signal
6TV6-20	Video and two 20 kHz audio signals
10TV6-20	Video and four 20 kHz audio signals

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

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Advanced Video Services (Cont'd)(B) Advanced Broadcast Video Service(1) Channel Description

Advanced Broadcast Video Service (ABVS) is a digital channel with one-way or two-way transmission capability, at a rate of 44.736 Mbps for a standard 525 line/60 field monochrome, or National Television Systems Committee (NTSC) color, video signal of broadcast quality and up to four associated 15 kHz audio signals. The audio signals are provided as one, up to four, separate channels as specified by the channel interface selected by the customer.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Advanced Video Services (Cont'd)(B) Advanced Broadcast Video Service (Cont'd)(1) Channel Description (Cont'd)

ABVS channels are provided on a full-time or part-time basis between customer designated premises or between a customer designated premises and a Telephone Company Hub where compatible ABVS channels may be connected together into a Hubbing Arrangement. The hubbing arrangement may not include services other than ABVS.

The technical specifications for ABVS channels are delineated in Technical Publications NTR-74415, Issue No. 1, TR-INS-000342, TR-NPL-000337 and TR-TSV-000338, Issue No. 2.

ABVS will be provided with baseband interfaces or a combination of baseband and digital interfaces. Each ABVS channel must include at least one baseband interface as specified by the channel interface selected by the customer. The channel interface also specifies the receipt, or hand-off, of the video and associated audio signal(s) at the customer designated premises.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Advanced Video Services (Cont'd)

(B) Advanced Broadcast Video Service (Cont'd)

(1) Channel Description (Cont'd)

The customer may request that compatible Full-time and/or Part-time ABVS channels be connected together at a Telephone Company Hub. The Telephone Company will establish the following service configurations involving ABVS channels.

Full-time to Full-time

Full-time to Part-time

Part-time to Part-time

The charge for each service connected shall be the charge specified for Other Labor as set forth in Section 13.2.5 following.

(2) Reserved for Future Use

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Advanced Video Services (Cont'd)

(B) Advanced Broadcast Video Service (Cont'd)

(3) Channel Interfaces

The following channel interfaces (CIs) define the manner of provision and number of audio signal(s) associated with an ABVS channel:

<u>CI</u>	<u>Description</u>	
04TV6.15	Video and one 15kHz audio signal	(T)
04TV6.15A	Video and one 15kHz audio signal	
04DS6.44A	Digitized Video and one 15kHz audio signal	
06TV6.15	Video and two 15 kHz audio signals	
06TV6.15A	Video and two 15 kHz audio signals	
06DS6.44A	Digitized Video and two 15kHz audio signals	
08TV6.15A	Video and three 15 kHz audio signals	
08DS6.44A	Digitized Video and three 15kHz audio signals	
10TV6.15A	Video and four 15 kHz audio signals	
10DS6.44A	Digitized Video and four 15kHz audio signals	(T)

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

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Advanced Video Services (Cont'd)(C) Serial Component Video Service(1) Channel Description

Serial Component Video Service (SCVS or D1 Service) is a broadband, digital video transport channel with one-way transmission capability of 270 Mbps high quality video as defined in American National Standard Institute/The Society of Motion Picture and Television Engineers (ANSI/SMPTE) Standard 259M. This standard describes a serial digital interface for System M, 525 line/60 field National Television Systems Committee (NTSC) digital television equipment operating with 4:2:2 serial component signals that conform to ANSI/SMPTE 259M-1997 serial digital format. The service may include up to four 20 kHz Audio Engineering Society (AES)/European Broadcasting Union (EBU) digital audio signals.

SCVS channels are provided on a full-time or part-time basis over digital network facilities between the customer designated premises involved. Where suitable facilities are not available to provide SCVS, Special Construction charges as set forth in Section 5.1.3 preceding may apply. At the customer designated premises, the Telephone Company will install coaxial cable for the transmission facilities within the building up to the channel interface. The channel interface enables delivery of digital audio signals which are embedded in the digital transmission stream. The customer is responsible for embedding the audio and ancillary data in the digital transmission. The quality of the video signal may be impaired if the distance of the coaxial cable results in transmission parameters which are not within the limits specified in the technical publication set forth in (2) following.

(C)

(2) Technical Specifications

The technical specifications for SCVS are delineated in Technical Publications ANSI/SMPTE 259M - 1997.

The Telephone Company will only accept a 75-ohm impedance interface to/from customer-provided, high quality coaxial cable that meets Telephone Company transmission requirements.

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2980 Fairview Park Drive, Falls Church, VA 22042

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Advanced Video Services (Cont'd)(C) Serial Component Video Service (Cont'd)

(3) Channel Interfaces

The following channel interface (CI) defines the provision and number of audio signal(s) associated with SCVS.

<u>CI</u>	<u>Description</u>
02TD6.E	Uncompressed serial component digital video transport with ancillary channels through the serial digital interface

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

(4) Rate Regulations

A channel termination rate applies for each termination of SCVS on a Transmit only or Receive only basis. Included as part of the channel termination is the use of up to twenty-five (25) feet of coaxial cable from the point at which the video service enters the customer's building to the channel interface. In the event that the customer requests that the Telephone Company extend the location of the channel interface beyond 25 feet, and the Telephone Company agrees to extend the communications path, the charges set forth for Other Labor in Section 13.2.5 following will apply for the extended portion of the communications path. The extended communications path is subject to distance limitations which are specific to the communications path being extended.

The Channel Mileage rate element applies on a fixed and per mile basis for the transmission facilities between the serving wire centers of the premises involved and is subject to the mileage bands specified in Section 31.7.16 following.

SCVS is subject to the Access Order regulations set forth in Section 5. preceding.

The minimum period for full-time SCVS is one year, subject to the regulations set forth in Section 5.2.5 preceding.

(C)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Advanced Video Services (Cont'd)(D) 19.39 Mbps Digital Video Transport Service

(N)

(1) Channel Description

19.39 Mbps Digital Video Transport Service (19.39 Mbps DVTS) is a broadband, digital video transport channel with one-way transmission capability of 19.39 Mbps high quality video as defined in American National Standard Institute/The Society of Motion Picture and Television Engineers (ANSI/SMPTE) Standard 310M. This standard describes a synchronous serial digital interface for equipment conforming to the SMPTE and Advanced Television Systems Committee (ATSC) Mbps digital television standards. 19.39 Mbps DVTS is provided with an electrical interface. It operates with a 12 bit uncompressed National Television Systems Committee (NTSC)/Phase Alternating Line (PAL) which meets or exceeds the RS250c short haul specifications. The service may include up to six 5Hz - 22 kHz Audio Engineering Society (AES)/European Broadcasting Union (EBU) digital audio signals.

19.39 Mbps DVTS is provided over digital network facilities between the customer designated premises involved. Where suitable facilities are not available to provide 19.39 Mbps DVTS, Special Construction charges as set forth in Section 5.1.3 preceding may apply. At the customer designated premises, the Telephone Company will install coaxial cable for the transmission facilities within the building up to the channel interface. The channel interface enables delivery of digital audio signals which are embedded in the digital transmission stream. The quality of the video signal may be impaired if the distance of the coaxial cable results in transmission parameters which are not within the limits specified in the technical publications for 19.39 Mbps DVTS.

(2) Technical Specifications

The technical specifications for 19.39 Mbps DVTS are delineated in Technical Publications ATSC Standard A-53 Digital Television Standard, ATSC Document A-54 Guide to the Use of ATSC Television Standard and ANSI/SMPTE Standard 310M Television Synchronous Serial Interface for MPEG-2 Digital Transport Streams.

The Telephone Company will only accept a 75-ohm impedance interface to/from customer-provided, high quality coaxial cable that meets Telephone Company transmission requirements.

(N)

(TR 1216)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Advanced Video Services (Cont'd)

(D) 19.39 Mbps Digital Video Transport Service (Cont'd)

(S)(x)

(3) Channel Interfaces

The following channel interface (CI) is available with 19.39 Mbps DVTS.

02TB6

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

(4) Terms and Conditions

19.39 Mbps DVTS is available on a month to month basis or under a 1 year, 3 year or 5 year term plan as selected by the customer.

At any time prior to the expiration of a selected term plan, the customer may change to a longer term plan by cancelling the existing plan and establishing a new, longer term plan. Early Termination Charges as set forth in 7.4.1(D) will not apply to the cancelled plan.

Upon expiration of a term plan, the customer's 19.39 Mbps DVTS will automatically be renewed for the same term at the currently effective rate, or the customer may subscribe to a new plan. To terminate service without incurring new termination liabilities, the customer must disconnect service within 90 days of the expiration date.

(\$)(x)

(C)(y)

(C)(y)

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(y) Issued on 1 day's notice under authority of Special Permission No. 99-201 of the Federal Communications Commission.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Advanced Video Services (Cont'd)

(D) 19.39 Mbps Digital Video Transport Service (Cont'd)

(N)

(5) Rate Regulations

The rates and charges for 19.39 Mbps DVTS include channel termination and channel mileage rate elements.

A channel termination rate applies for each termination of 19.39 Mbps DVTS on a Transmit only or Receive only basis. Included as part of the channel termination is the use of up to twenty-five (25) feet of coaxial cable from the point at which the video service enters the customer's building to the channel interface. In the event that the customer requests that the Telephone Company extend the location of the channel interface beyond 25 feet, and the Telephone Company agrees to extend the communications path, the charges set forth for Other Labor in Section 13.2.5 following will apply for the extended portion of the communications path. The extended communications path is subject to distance limitations which are specific to the communications path being extended.

The Channel Mileage rate element applies on a fixed and per mile basis for the transmission facilities between the serving wire centers of the premises involved when the mileage is over zero.

19.39 Mbps DVTS is subject to the Access Order regulations set forth in Section 5. preceding.

(N)

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2980 Fairview Park Drive, Falls Church, VA 22042

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Advanced Video Services (Cont'd)(D) 45 Mbps Digital Video Transport Service

(N)

(1) Channel Description

45 Mbps Digital Video Transport Service (45 Mbps DVTS) is a broadband, digital video transport channel with one-way transmission capability of 45 Mbps high quality video as defined in American National Standard Institute (ANSI) T1.102-1993 (R1999), ANSI T1.102.01-1996, ANSI T1.107-1995 and in Telcordia Documents SR 4274 and GR 338. These standards describe a digital interface for equipment conforming to the ANSI and Telcordia digital television standards. 45 Mbps DVTS is provided with an electrical interface with an optional video encoder and decoder (codec) at either or both ends for full time service. The service may include up to six 5Hz - 22 kHz Audio Engineering Society (AES)/European Broadcasting Union (EBU) digital audio signals.

45 Mbps DVTS channels are provided on a full-time or part-time basis over digital network facilities between the customer designated premises involved. Where suitable facilities are not available to provide 45 Mbps DVTS, Special Construction charges as set forth in Section 5.1.3 preceding may apply. At the customer designated premises, the Telephone Company will install coaxial cable for the transmission facilities within the building up to the channel interface. The channel interface enables delivery of digital audio signals which are embedded in the digital transmission stream. The quality of the video signal may be impaired if the distance of the coaxial cable results in transmission parameters which are not within the limits specified in the technical publications for 45 Mbps DVTS.

(2) Optional Features and Functions

(a) Video Encoder and Decoder (CODEC) (USOC MSQHA)

A codec may be provided at either or both ends of 45 Mbps DVTS service provided on a monthly (full-time) basis. The minimum period for the CODEC optional feature is one year. A codec enables compression of the NTSC composite video signal into a 44.736 Mbps data stream or decompression of the 44.736 Mbps data stream into NTSC composite video and audio signals. A codec is not available with 45 Mbps DVTS provided on a part-time basis.

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Advanced Video Services (Cont'd)

(D) 45 Mbps Digital Video Transport Service (Cont'd)

(N)

(3) Technical Specifications

The technical specifications for 45 Mbps DVTS are delineated in Technical Publications American National Standard Institute (ANSI) TI.102-1993 (R1999), ANSI TI.102.01-1996, ANSI TI.107-1995 and in Telcordia Documents SR 4274 A View of Systems M-NTSC Video Jitter and Wander Specifications on Compressed Systems at 45 MBS, and GR 338 Television Special Access and Local Channel Services - Transmission Parameter Limits and Interface Combinations.

The Telephone Company will only accept a 75-ohm impedance interface to/from customer-provided, high quality coaxial cable that meets Telephone Company transmission requirements.

(4) Channel Interfaces

The following channel interfaces (CI) are available with 45 Mbps DVTS.

- 04TE6.20D
- 10TE6.20D
- 10TV6.20D

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

(5) Terms and Conditions

45 Mbps DVTS is available on a month to month basis or under a 1 year, 3 year or 5 year term plan as selected by the customer.

At any time prior to the expiration of a selected term plan, the customer may change to a longer term plan by cancelling the existing plan and establishing a new, longer term plan. Early Termination Charges as set forth in 7.4.1(D) will not apply to the cancelled plan.

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Advanced Video Services (Cont'd)

(D) 45 Mbps Digital Video Transport Service (Cont'd) (S)(x)

(5) Terms and Conditions (Cont'd)

Upon expiration of a term plan, the customer's 45 Mbps DVTS will automatically be renewed for the same term at the currently effective rate, or the customer may subscribe to a new plan.

To terminate service without incurring new termination liabilities, the customer must disconnect service within 90 days of the expiration date.

(S)(x)

(C)(y)

(d)(y)

(6) Rate Regulations (S)(x)

The rates and charges for 45 Mbps DVTS include channel termination, channel mileage and when applicable, optional feature monthly rate elements.

A channel termination rate applies for each termination of 45 Mbps DVTS on a Transmit only or Receive only basis. Included as part of the channel termination is the use of up to twenty-five (25) feet of coaxial cable from the point at which the video service enters the customer's building to the channel interface. In the event that the customer requests that the Telephone Company extend the location of the channel interface beyond 25 feet, and the Telephone Company agrees to extend the communications path, the charges set forth for Other Labor in Section 13.2.5 following will apply for the extended portion of the communications path. The extended communications path is subject to distance limitations which are specific to the communications path being extended.

The Channel Mileage rate element applies on a fixed and per mile basis for the transmission facilities between the serving wire centers of the premises involved when the mileage is over zero.

The CODEC rate element applies monthly for each codec provided on a 45 Mbps DVTS channel.

45 Mbps DVTS is subject to the Access Order regulations set forth in Section 5. preceding.

(S)(x)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.15 Channel Extension Service

(A) General

Channel Extension Service provides dedicated point-to-point broadband data transmission between mainframe computers, between mainframes and peripheral devices and/or between Local Area Networks (LANs) using either a repeater backbone or a dense wave division multiplexing (DWDM) backbone architecture.

Channel Extension Service is provided over two fiber optic strands connecting the network interfaces at the customer designated premises. The repeater backbone architecture provides one ESCON® (Enterprise Systems CONnection protocol is an IBM registered trademark) channel over each fiber pair. The DWDM backbone architecture can provide up to fourteen channels over each fiber pair. For path redundancy, DWDM requires a second pair of fiber optic strands and a switch protection module in the equipment.

The Telephone Company will provide monitoring of the ESCON signal to the parameters specified in the technical specifications for the service.

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(C)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.15 Channel Extension Service

(B) Service Availability

Channel Extension Service is available between a customer's two premises where suitable single mode fiber optic facilities exist to provide such service. Where suitable facilities do not exist to provide the service, the Telephone Company may require that facilities be specially constructed subject to the provisions set forth in Sections 2.1.4, Provision of Services, and 5.1.3, Special Construction, preceding. (C)
(C)

Channel Extension Service is supported by the Telephone Company's Single Point of Contact (SPOC) center which provides continuous maintenance, trouble resolution and network monitoring twenty-four hours per day, seven days per week (24x7). Service order processing and network installation functions are performed during normal business hours only. (S)

The customer is responsible for purchasing the appropriate circuits and associated equipment required to provide the Telephone Company with out-of-band monitoring of the network devices. These circuits will connect the equipment located at the customer's premises to a control center location. (S)

Network maintenance and network upgrades for Channel Extension Service are performed between 11:00pm and 8:00am. At times, during the hours of maintenance activity, it will be necessary to place a customer's service in an inactive (out of service) condition. The amount of time that this scheduled out of service condition exists is called a "maintenance window". The Telephone Company will provide notice to the customer prior to the maintenance window. Down time during a maintained window does not qualify for credit allowance as a service outage.

(C) Technical Specifications

The technical specifications for Channel Extension Service using the repeater backbone architecture are delineated in Technical References Enterprise System Architecture (ESA)/390 ESCON I/O Interface Physical Layer SA23-0394-00, Enterprise Systems Architecture/390 ESCON I/O Interface SA22-7202-02, GA23-0383 and ANSI X3.271 Fibre Channel Single-byte Command Code Sets Connection Architecture (SBCON). (S)
(S)

(S) Reissued material filed under Transmittal Number 1363 that became effective on February 1, 2001.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.15 Channel Extension Service (Cont'd)

(D) Channel Interfaces

The compatible network channel interface code for Channel Extension Service using the repeater architecture is 02FCF.20, and using the DWDM backbone architecture is 02FCF.125.

(C)
(C)

(E) Network Interfaces

(N)

The repeater backbone architecture can support an ESCON® or External Time Reference (ETR) interface with a bandwidth of 200 Mbps. The DWDM backbone architecture can support a bandwidth of up to 1.25 Gbps.

- (1) ESCON/External Time Reference, a 200 Mbps interface, is used for high speed, point-to-point transport service to connect host channels and control units. The ETR centralized time reference unit maintains time of day synchronization. This interface can be used on both the repeater and the DWDM backbone architectures.

The Telephone Company cannot guarantee the successful performance of this service on the repeater backbone architecture when the distance between premises exceeds 20 kilometers or when transmission loss is greater than 14db. In these instances, a repeater is required. The maximum distance from end to end is approximately 43 kilometers, and the maximum number of repeaters per channel is one. The Telephone Company will determine the wire center in which such repeaters will be utilized.

The Telephone Company cannot guarantee the successful performance of this service on the DWDM backbone architecture when the transmission loss between premises is greater than 17db with Path Protection and 23db without Path Protection. The DWDM architecture does not have regeneration capabilities. The customer's interface will be 13nm.

(N)

Certain regulations previously found on this page can now be found on Original Page 7-145.1.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.15 Channel Extension Service (Cont'd)

- | | | |
|-----|--|------------|
| (F) | Rate Regulations | (T)(M) |
| (1) | The rates and charges for Channel Extension Service include channel termination, channel mileage, and where applicable, repeater or redundant path switching rate elements which apply in accordance with the rate regulations set forth in Section 7.4.9(C) following. Channel Extension Service is provided under a 3 year term plan or a 5 year term plan as selected by the customer. The rates and charges for Channel Extension Service are shown as a 3 year rate or a 5 year rate which applies each month during the term selected by the customer. | (C)
(C) |
| (2) | At any time prior to the expiration of the selected term plan, the customer may change its 3 year term plan to a 5 year term plan by canceling the 3 year term plan and establishing a new 5 year term plan. Early Termination Charges as set forth in 7.4.1(D) following will not apply to the cancelled 3 year term plan. | |
| (3) | At the expiration of the term plan, the customer's Channel Extension Service will automatically be renewed at the currently effective 3 year or 5 year rate, as applicable, or the customer may subscribe to a new term plan. | |
| (4) | The minimum period for Channel Extension Service is 3 years. | (M) |

Certain regulations on this page formerly appeared on Original Page 7-145.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.16 Facilities Management Service

(A) General

Facilities Management Service (FMS) is 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 location(s) to serving wire centers of secondary locations within the same LATA. With FMS, the Telephone Company assumes responsibility for the routing of the customer's dedicated circuits over the Telephone Company's Special Access Service network in order to maximize network efficiencies and to optimize economic efficiencies.

(B) Definitions

The following definitions are specific to FMS and are in addition to the definitions set forth in Section 2.6 preceding.

DSO Equivalency

The term "DSO Equivalency" denotes a measure of DSO channels which are the basic building block for high capacity digital services. The DSO equivalency for the service levels provided with FMS are as follows.

<u>Service Level</u>	<u>DSO Equivalency</u>	
OC12	8,064	(N)
OC3	2,016	(N)
DS3 High Capacity or STS1	672	(C)
DS1 High Capacity	24	
DIGIPATH digital service II	1	
Voice Grade Service	1	

FMS Entrance Facility

The term "FMS Entrance Facility" denotes the transmission facilities between a customer's network interface at its designated primary premises and the associated serving wire center.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.16 Facilities Management Service (Cont'd)

(B) Definitions (Cont'd)

Network Interface

The term "Network Interface" denotes the interface point at a customer's designated primary premises where connection is made between the FMS network and the customer's network. FMS network interfaces include electrical DS1, DS3 and STS1 or optical IEF OC3 and OC12 interfaces.

(T)
(T)

Primary Premises

The term "Primary Premises" denotes a location (i.e., customer designated premises or Expanded Interconnection multiplexing node) designated by the customer where an FMS circuit/channel is either originated or terminated. Only one end of the circuit can be designated a primary premises. Such primary premises must meet the criteria for one of the following two types as follows.

Type 1: A location with an entrance facility of a minimum of 672 Switched and/or Special Access in-service DSO equivalent channel terminations and a DS3, STS1, OC3 or OC12 network interface(s), or an Expanded Interconnection multiplexing node with service cross-connected at the DS3 level and an electrical DS3 network interface.

Type 2: A location with an FMS Entrance Facility of a minimum of 144 Special and/or Switched Access in-service DSO equivalent channel terminations provided over DS1 network interface(s), or an Expanded Interconnection multiplexing node with service cross-connected at the DS1 level and a DS1 interface.

Secondary Premises

The term "Secondary Premises" denotes a customer designated premises other than the primary premises. Secondary premises are not included as part of FMS.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.16 Facilities Management Service (Cont'd)

(C) Service Description

With FMS, Voice Grade, DIGIPATH digital service II and High Capacity Special Access Services are provided to the customer over discrete channels. Engineering of the service from the FMS entrance facility at the customer's designated primary premises to the serving wire center connection of the customer's secondary premises is done by the Telephone Company over its Special Access network. The channel routing may not be designated by the customer as it is for most Telephone Company regular Special Access High Capacity Services.

FMS provides the customer with an alternative to the customer's self-management of its network of standard Special Access Service channels.

FMS is available in all of the Telephone Company's operating territories and is provided on a LATA-wide basis. FMS IEF is available where IEF facilities permit as described in Section 26.1.4(G) following. (T)
(C)
(C)
(C)

Facilities Management Service is provided on a month-to-month basis or, at the option of the customer, under a three year term plan or a five year term plan. The minimum period for FMS is one year.

(D) Minimum Service Requirements

The customer must have at least one premises within a LATA which is designated as its primary premises for FMS as defined in (B) preceding.

All services terminated at the customer's designated primary premises and the associated Voice Grade, DIGIPATH digital service II or High Capacity Special Access Services must be included in the FMS plan for that LATA. However, a single plan may not include a mix of Type 1 and Type 2 primary premises as defined in (B) preceding.

The minimum requirements for Type 1 or Type 2 Primary Premises are as set forth in (B) preceding.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.16 Facilities Management Service (Cont'd)

(E) Terms and Conditions

- (1) In its initial order for FMS, the customer will designate the LATA, type of primary premises and whether FMS will be provided on a month-to-month basis or under a term plan as selected by the customer.
- (2) Only one FMS plan is allowed per LATA. The plan may be provided on a month-to-month basis or under a single term commitment as selected by the customer, but not both.
- (3) When FMS is provided under a term plan of 3 or 5 years the customer must maintain an annual minimum of ninety percent (90%) of the initial commitment of DSO equivalent services for the preceding twelve months. The Telephone Company will conduct a true-up which compares the average number of DSO equivalents actually in service over the preceding twelve months to the annual minimum of ninety percent (90%) of the initial commitment.
- (4) In the event that the annual average number of DSO equivalent services falls below 90% of the commitment level for the plan, the customer has the following options.
 - (a) Buy down the commitment level by paying termination liability on the shortfall between the commitment level and the annual average for the preceding 12 months. Termination liability is as set forth in (G)(3) following. The new commitment level may not be less than the minimum service requirements for FMS as described for Type 1 or Type 2 Primary Premises in (B) preceding; or

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.16 Facilities Management Service (Cont'd)

(E) Terms and Conditions (Cont'd)

(4) (Cont'd)

- (b) Retain the original commitment level and pay 12 months of charges for the DSO equivalent shortfall using the customer's average DSO rate based on the previous 12 months billing. The Telephone Company will calculate the shortfall charges as follows.

(Step 1) The Telephone Company will calculate the average number of DSO equivalent channel terminations which were in-service over the preceding twelve months by summing the actual number of DSO equivalent channel terminations for each of the last twelve months and dividing by twelve. The resulting number represents the average DSO equivalent channel terminations per month.

(Step 2) The Telephone Company will calculate the average DSO rate for an equivalent DSO by first summing the total monthly charges associated with each DSO which was in-service over the preceding twelve months and dividing by twelve. The resulting amount is then divided by the average monthly DSO equivalent channel terminations determined in Step 1.

(Step 3) The Telephone Company will determine the shortfall by subtracting the average number of DSO equivalent channel terminations determined in Step 1 from the number of DSO equivalent channel terminations in the original commitment level, and multiplying the difference by the average rate per DSO equivalent determined in Step 2. The resulting amount is the shortfall charge due from the customer. Such charge is not subject to any late payment factor as specified in Section 2.4.1 preceding.

- (c) Apply Time In-Service Credits (TISCs) as set forth in (G)(1) following to offset the shortfall.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.16 Facilities Management Service (Cont'd)

(E) Terms and Conditions (Cont'd)

- (5) If the FMS term plans in multiple LATAs share a common expiration date and the same type of primary premises, the associated commitment levels will be aggregated into a single total. Fulfillment of the commitment level will be determined as stated in (E)(3) preceding; however, the calculation will be on the aggregate level for all eligible LATAs.
- (6) The customer will provide either DS1 or electrical DS3 network interfaces at each primary premises.
- (7) The FMS customer, when ordering Voice Grade Service, DIGIPATH digital service II or High Capacity Service, must specify the type of service and the locations involved, one of which must be a primary premises.
- (8) Reserved for future use.
- (9) The Telephone Company will provide the same service intervals and quality standards for services in an FMS plan as are provided for non-FMS Special Access Services.
- (10) Where Switched Access FMS is not available, when both Switched Access Service and Special Access Service terminate at the same primary premises, the Telephone Company will apply a Switched Access Service offset in the determination of the applicable rate band of FMS Channel Termination charges. This offset will be calculated by including up to seventy-five percent (75%) of the Feature Group B and D trunks in the DSO equivalency total with each trunk being counted as a single DSO equivalent. FMS rate bands are as set forth in Section 31.7.18 following. (C)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.16 Facilities Management Service (Cont'd)

(E) Terms and Conditions (Cont'd)

- (11) FMS is not applicable to the following Switched Access, Special Access or SONET Services and options: (T)
- IntelliLight® Dedicated SONET Ring (IDSR) as set forth in Section 6.2.13, 7.2.17 and 26.1.1 (T)
 - IntelliLight® Broadband Transport (IBT) as set forth in Section 26.1.5, except when associated with an IntelliLight Entrance Facility (T)
 - IntelliLight® Shared Assurance Network (ISAN) as set forth in Section 26.1.3 (T)
 - IntelliLight® Shared Single Path (ISSP) as set forth in Section 26.1.6, except when associated with an IntelliLight Entrance Facility (T)
 - NYNEX Enterprise Services as set forth in Section 7.2.13 (T)
 - Enterprise SONET Service as set forth in Section 26.1.2 (T)
 - Services provided under a Service Discount Plan or a Commitment Discount Plan, except as specified in 7.2.16(E)(13) following
 - Central Office Multiplexing optional features or BSEs
 - Automatic Loop Transfer as set forth in Section 7.2..9(D)(1) (T)
 - Transfer Arrangement as set forth in Section 7.2..9(D)(2) (T)
 - Premises other than Primary Premises as defined in 7.2.16(B) preceding
 - Service provided under a Shared Billing Arrangement as specified in Section 5.2 preceding, except as specified in (10) following.

- (12) Services provided under FMS may not be included in Shared Billing Arrangements. Any service already provided under a Shared Billing Arrangement at the time of subscription to FMS must be converted within the first twelve months of the effective date of establishing FMS.

Prior to conversion, such services will not be included in the DSO calculation to determine the customer's FMS Rate Band for billing of Primary Premise channel terminations. However, these services will be billed at the same FMS rates as those applicable to the customer's other services provided under FMS.

The customer must remove the Shared Billing Arrangements prior to the end of the one year transition period. The Telephone Company will notify the customer sixty (60) days prior to the end of the transition period of any Shared Billing Arrangements that remain on the customer's account. Failure to eliminate such arrangements will result in termination of service with termination liability charges being applied.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Description (Cont'd)7.2.16 Facilities Management Service (Cont'd)

(E) Terms and Conditions (Cont'd)

- (13) The customer may also order the Alternate Serving Wire Center (ASWC) optional feature for FMS. ASWC is described in Section 7.2.9(D)(5), subject to the rates specified in Section 31.7.9(C)(5) following.

When ordering ASWC, the commitment period for this optional feature must match that of the FMS plan. When FMS is provided under a term plan of 3 or 5 years, the expiration date of the ASWC optional feature commitment period will be the same date on which the term plan expires for the FMS plan.

(F) Application of Rates

At the customer's option, FMS is provided on a month-to-month basis, under a 3 year term plan or under a 5 year term plan. The rates for FMS include Standard FMS Channel Terminations, Office FMS Channel Terminations, FMS Channel Mileage, FMS Multiplexing and a rate per DSO equivalent for Administration. Such rates are subject to change over the term selected by the customer, thereby causing an increase or decrease in the rates applicable to the customer. The rates and charges for any other service or option not provided under the FMS rate plan are subject to the rates and charges for the type of service or option being provided. The FMS rate elements and the manner in which such elements apply are described in 1 through 5 following.

(1) Primary Premises Standard Channel Termination

The Primary Premises Standard Channel Termination is a DSO equivalent channel provided over the FMS entrance facilities connecting the customer's primary premises to its serving wire center. At the customer's primary premises, standard channel terminations will be terminated over either an electrical DS3 interface or a DS1 interface.

The DSO channel terminations provided over a DS3 or higher interface are differentiated as being one of the initial 0 through 672 DSO equivalent channel terminations, for which a flat rate applies, or as being one of the DSO channel terminations over the initial 672, for which a rate for each DSO equivalent channel over 672 DSO equivalent channel terminations applies as specified in Section 31.7.18. For term plan billing, a rate per DSO equivalent channel applies for each DSO channel termination provided and is further subject to the rate bands specified in Section 31.7.18(B)(1) following.

(C)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.16 Facilities Management Service (Cont'd)

(F) Application of Rates (Cont'd)

(1) Primary Premises Standard Channel Termination (Cont'd)

The DSO channel terminations provided over a DS1 interface are differentiated as being one of the initial 0 through 144 DSO equivalent channel terminations, for which a flat rate applies, or as being one of the DSO channel terminations over the initial 144, for which a rate for each DSO equivalent channel over 144 DSO equivalent channel terminations applies as specified in Section 31.7.18 following.

(2) Primary Premises Office Channel Termination

The Primary Premises Office Channel Termination provides for termination of FMS channel terminations to an Expanded Interconnection multiplexing node. At the customer's multiplexing node designated as its primary premises, office channel terminations will be terminated over an electrical DS3 interface or a DS1 interface.

For the DS3 interface, the rates for the primary premises office channel terminations are differentiated as being one of the initial 672 DSO equivalent channel terminations, for which a flat rate applies, or as being one of the DSO channel terminations over the initial 672, for which a rate for each DSO equivalent channel over 672 DSO equivalent channel terminations applies as specified in Section 31.7.18 following. The rates are further differentiated by the type of billing arrangement (i.e., month-to-month billing or term plan billing).

For the DS1 interface, the rates for the primary premises office channel terminations are differentiated as being one of the initial 144 DSO equivalent channel terminations, for which a flat rate applies, or as being one of the DSO channel terminations over the initial 144, for which a rate for each DSO equivalent channel over 144 DSO equivalent channel terminations applies as specified in Section 31.7.18 following. The rates are further differentiated by the type of billing arrangement (i.e., month-to-month billing or term plan billing).

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.16 Facilities Management Service (Cont'd)

(F) Application of Rates (Cont'd)

(3) Channel Mileage

The FMS Channel Mileage rate element applies as a fixed rate and a rate per mile for each DSO equivalent channel provided as FMS. (C)
The mileage is determined by calculating the airline distance between the serving wire center associated with the primary premises and the serving wire center associated with the other customer designated premises involved. To determine the rate to be billed, first compute the mileage using the method described in 7.4.6 following and apply the rates shown in Section 31.7.18 following. FMS Channel mileage applies as follows. (C)

- DS1 channel mileage applies when the primary premises interface is DS1, and the secondary premises signal rate is DS1 or less.
- Basic DS3/STS1 channel mileage applies when the interface at the primary premises is DS3 or STS1 and the secondary premises has a signal rate less than DS3 or STS1, respectively.
- Direct DS3/STS1 channel mileage applies when any combination of DS3 and STS1 interfaces exists at both the primary and secondary premises.
- OC3 channel mileage applies when the primary premises has an IEF OC3 or OC12 interface and the secondary premises has an OC3 interface.
- OC12 channel mileage applies when the primary premises has an IEF OC12 interface and the secondary premises has an OC12 interface.
- DS1, Basic DS3/STS1, and Direct DS3/STS1 channel mileage is provided on a month-to-month basis or under a term plan of 3 or 5 years. OC3 and OC12 channel mileage is provided under a term plan of 3 or 5 years. (C)

(4) FMS Multiplexing

FMS multiplexing applies for each DSO equivalent channel provided as FMS. The rate for FMS multiplexing is differentiated by the level of multiplexing performed (i.e., DS3/STS1 to DS1 or DS1 to DSO). (C)

(5) Administration Fee

An administration fee applies for network administration performed by the Telephone Company. The fee applies for each DSO equivalent channel provided as FMS.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.16 Facilities Management Service (Cont'd)

(G) FMS Term Plans

When FMS is provided under a term plan, the customer must select a commitment period of either 3 or 5 years. For new installations, the FMS term plan shall be effective with the first bill following the establishment of FMS. When converting service from a Service Discount Plan to an FMS term plan, no termination liability charges will apply to the Service Discount Plan being discontinued. Additionally, if twenty-four months or more are remaining in the Service Discount Plan being discontinued, the portion of the commitment period already elapsed shall be applied to the FMS term plan on a Time-In Service Credit basis as specified in (1) following.

(1) Time In-Service Credit (TISC)

TISCs are granted on a per DSO equivalent basis for each Special Access Service converted from a Service Discount Plan to an FMS term plan when the plan being converted has at least twenty-four months remaining in the commitment period. TISCs are granted as follows.

- One TISC is given for each month or major fraction thereof that the service involved was provided under a Service Discount Plan. The maximum number of TISCs granted for a DSO equivalent channel may not exceed sixty (60), i.e., sixty months of credit, for time in-service. For example, at the time of conversion to FMS, a DS3 service under a Service Discount Plan that has been in-service for the past 30 months with 480 of the 672 available channels provisioned will be granted 14,400 TISCs (480 DSO equivalents x 30 months in-service).
- One TISC can be used to offset, or buy down, 1 month of termination liability on a per DSO equivalent basis.
- Twelve (12) TISCs can be used to offset one FMS channel service below the minimum commitment level for a year as described in (E)(4)(c) preceding.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.16 Facilities Management Service (Cont'd)

(G) FMS Term Plans (Cont'd)

(2) Renewal, Discontinuance or Conversion of an FMS Term Plan

The customer must provide the Telephone Company with at least three months' written notice prior to expiration of the commitment period of its desire to renew, discontinue or convert its FMS Term Plan.

(a) Renewal of the FMS Term Plan

At the customer's option, the expiring FMS term plan may be renewed for either a 3 year term or a 5 year term.

(b) Discontinuance of an FMS Term Plan

When the customer notifies the Telephone Company of its desire to discontinue its FMS term plan upon expiration of the commitment period, the Telephone Company will, upon request, assist the customer in designing a dedicated Special Access Service network which supports the customer's traffic requirements.

In the event that the customer wishes to discontinue FMS and establish a new network arrangement, nonrecurring charges will not apply to convert the in-service channel terminations to a new network arrangement. Nonrecurring charges will apply for the installation of any additional channel terminations or optional features being established with the new network arrangement.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.16 Facilities Management Service (Cont'd)

(G) FMS Term Plans (Cont'd)

(2) Renewal, Discontinuance or Conversion of an FMS Term Plan (Cont'd)

(c) Conversion of an FMS Term Plan

When the customer notifies the Telephone Company of its desire to convert its FMS Services to standard Special Access Services, FMS rates will continue to apply after expiration of the FMS term plan until such time as the conversion is complete or for a period not to exceed six months, whichever occurs first. Such FMS rates will apply only to the services not yet converted, through the date of conversion or six months, as applicable.

In the event that the Telephone Company does not receive written notification from the customer of its desire to renew, discontinue or convert its FMS Term Plan upon expiration of the term plan, the Telephone Company will convert billing on the customer's services to standard Special Access Services at month-to-month rates (i.e., non-discounted rates).

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.16 Facilities Management Service (Cont'd)

(G) FMS Term Plans (Cont'd)

(3) Termination Liability

(a) When Termination Liability Does Not Apply

Termination Liability does not apply when FMS is disconnected for the following reasons.

(i) Cancellation of an FMS term plan within thirty (30) days of the effective date of a Telephone Company initiated rate increase that is greater than eight percent on any rate applicable to FMS. (Effective December 7, 1999, existing FMS customers may cancel their FMS term plans without liability by notifying the Telephone Company of their intent to cancel no later than January 6, 2000.) (C)

(ii) Conversion of an FMS term plan to an FMS term plan with a longer commitment period. The replacing FMS term plan will be subject to termination liability as specified in (b) following.

(iii) Conversion of an FMS term plan to a Service Discount Plan provided that the following conditions are met.

- FMS has been in-service for a minimum of twelve months; and
- the quantity of DSO equivalent channel terminations in the new plan is equal to, or greater than, ninety percent (90%) of the existing FMS primary premises channel terminations or 90% of the original commitment level of FMS primary premises channel terminations, whichever is greater; and (C)
- the commitment period for the new Service Discount Plan is equal to, or greater than, the time remaining in the FMS term plan being converted. (C)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.16 Facilities Management Service (Cont'd)

(G) FMS Term Plans (Cont'd)

(3) Termination Liability (Cont'd)

(b) When Termination Liability Applies

Termination Liability applies when FMS is discontinued prior to the end of the selected commitment period, except as set forth in (a) preceding. The termination liability charge is computed as follows.

- (i) If FMS is discontinued within the first year of the selected commitment period, the termination liability charge is 100% of the total FMS monthly charges for each month and fraction thereof remaining in the twelve month minimum service period, plus 20% of the total monthly charges for each month and fraction thereof beginning the month following the minimum service period for the balance of the commitment period for the plan.
- (ii) If service is discontinued, or the customer wishes to buy down the commitment level as described in (E)(4)(a) preceding after the minimum service period has been satisfied but prior to the end of the selected commitment period, the termination liability charge is an amount equal to 20% of the total monthly charges for each month and fraction for the balance of the commitment period for the plan.
- (iii) When calculating the termination liability charge, the total monthly charges to be used will be the total monthly charges billable as of the date of discontinuance.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.17 IntelliLight® Dedicated SONET Ring

(N)

(A) General

IntelliLight Dedicated SONET Ring (IDSR) provides a customer a dedicated high capacity customized network. The network is in a ring architecture or topology that assures survivability.

IDSR is an alternative to basic High Capacity Special Access Service between multiple customer locations. It is, therefore, rated discretely. Rate elements include nodes, ports and mileage between nodes. Rates are specified in Section 31.7.19 following.

(1) Terms and Conditions

IDSR may provide connectivity to multiple customer designated locations (nodes). However, an IDSR must have a minimum of three nodes. At least one node must be located in a Company Central Office (CO) and one must be located at a customer designated premises.

When a customer premises node is located in the same building as a CO node, there will be no diversity between the two nodes.

When a customer transmits STS1 signals, the mapping feature must be designated.

Extended Superframe Format (ESF) is required on all DS1 circuits in order to ensure performance objectives.

Additional nodes could be required to maintain service quality levels. Generally, a transmission of 20 or more miles or a transmission through 6 or more COs will be subject to loss of signal integrity, and would require an additional node. A regeneration node requires a full capacity node.

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.17 IntelliLight® Dedicated SONET Ring (Cont'd)

(A) General (Cont'd)

(1) Terms and Conditions (Cont'd)

The customer will be billed additional charges for any charges levied the Telephone Company for space and power required to place ADMs on the Company's side of the network interface.

The customer specifies the ring capacity in terms of optical carrier rates. IDSR is available in capacities of OC3, OC12 and OC48. Lower speed channel services are provided between nodes via port designations. Accepted port speeds are as follows:

NODES:	OC3	OC12	OC48	OC192	(C)
DS1 Ports	X				
DS3 Ports	X	X	X		
STS1 Ports	X	X	X		
OC3 Ports		X	X	X	(C)
OC3c Ports		X	X	X	(C)
OC12 Ports			X	X	(C)
OC12c Ports			X	X	(C)
OC48 Ports				X	(N)
OC48c Ports				X	(N)

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.17 IntelliLight® Dedicated SONET Ring (Cont'd)

(A) General (Cont'd)

(1) Terms and Conditions (Cont'd)

When IDSR is provided in a Ring-on-Ring design of OC12+3, OC48+3, (T)
OC192+3, OC192+12 or OC192+48, the following requirements apply: (C)

- The lower speed ring must have a minimum of two nodes located at either the customer designated premises or a Telephone Company wire center; and
- the Telephone Company must provide the lower speed nodes; and
- each lower speed node must be located at the same customer designated premises or Telephone Company wire center as its corresponding higher speed node.

Ports may be ordered in a symmetrical arrangement, e.g., DS3 Port to DS3 Port, or an asymmetrical arrangement, e.g., OC12 Port to DS3 Port. When asymmetrical port combinations are ordered, certain conditions apply.

- The higher speed port will be mapped based on the speed of the connecting service and port. The higher speed port is referred to as a Stub Hub Port in the arrangement.
- The Stub Hub Port is only available at a premises node.
- The lower speed port(s) can be provided at customer premises and wire center nodes.
- Asymmetrical ports are available in the following combinations:

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.17 IntelliLight® Dedicated SONET Ring (Cont'd)

(A) General (Cont'd)

(1) Terms and Conditions (Cont'd)

	<u>Node Speeds</u>	<u>Port Combinations</u>
OC3 IDSR Ring	OC3 - OC3	STS1 - DS3
OC12 IDSR Ring	OC12 - OC12	OC3 - DS3 OC3 - STS1
OC48 IDSR Ring	OC48 - OC48	OC3 - DS3 OC3 - STS1 OC12 - DS3 OC12 - STS1 OC12 - OC3 OC12 - OC3c
OC192 IDSR Ring	OC192 - OC192	OC12 - OC3 OC12 - OC3c OC48 - OC3 OC48 - OC3c OC48 - OC12 OC48 - OC12c

(N)

(N)

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.17 IntelliLight® Dedicated SONET Ring (Cont'd)

(A) General (Cont'd)

(1) Terms and Conditions (Cont'd)

There are no provisions within the SONET standard for asynchronous DS1 to DS3 multiplexing. Therefore, IDSR is only guaranteed for the following interface to interface combinations:

OC3 w/DS1 mapping - DS1	DS1 - STS1	
OC3 w/DS3 mapping - DS3	DS3 - DS3	
STS1 w/DS1 mapping - DS1	STS1 - STS1	
STS1 w/DS3 mapping - DS3	OC3 - STS1	
OC3c - OC3c	OC3- OC3	
OC12 - STS1, DS3, OC3, OC3c & OC12	OC12c - OC12c	
OC48 - OC3, OC3c, OC12, OC12c & OC48	OC48c - OC48c	(N)

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.17 IntelliLight® Dedicated SONET Ring (Cont'd)

(N)

(A) General (Cont'd)

(1) Terms and Conditions (Cont'd)

IDSR Mileage is the total of airline distances between nodes rounded up to the nearest mile. The mileage rate is based on total ring capacity and not on individual services between nodes. For example, the mileage charge for a four-node OC3 ring with 5.1 miles between each node (20.4 total miles) would be calculated by multiplying the OC3 mileage rate in Section 31.7.19(B) by 21 miles. This mileage calculation applies regardless of the number of services (e.g., DS3s) on the ring.

The customer may provide a single node and associated port equipment at one of its premises subject to compatibility with the Company's equipment in the COs. This compatibility requires that the customer, at its own expense, uses matching vendor's equipment and maintains the same vintage in software release as the Company. Upon written notification from the Company, the customer has 60 days in which to complete the change out of software. In addition, the customer must configure the node to limit access to the data communications channel of the node.

The Company can not ensure the performance monitoring of the ring when it is equipped with customer provided nodes.

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

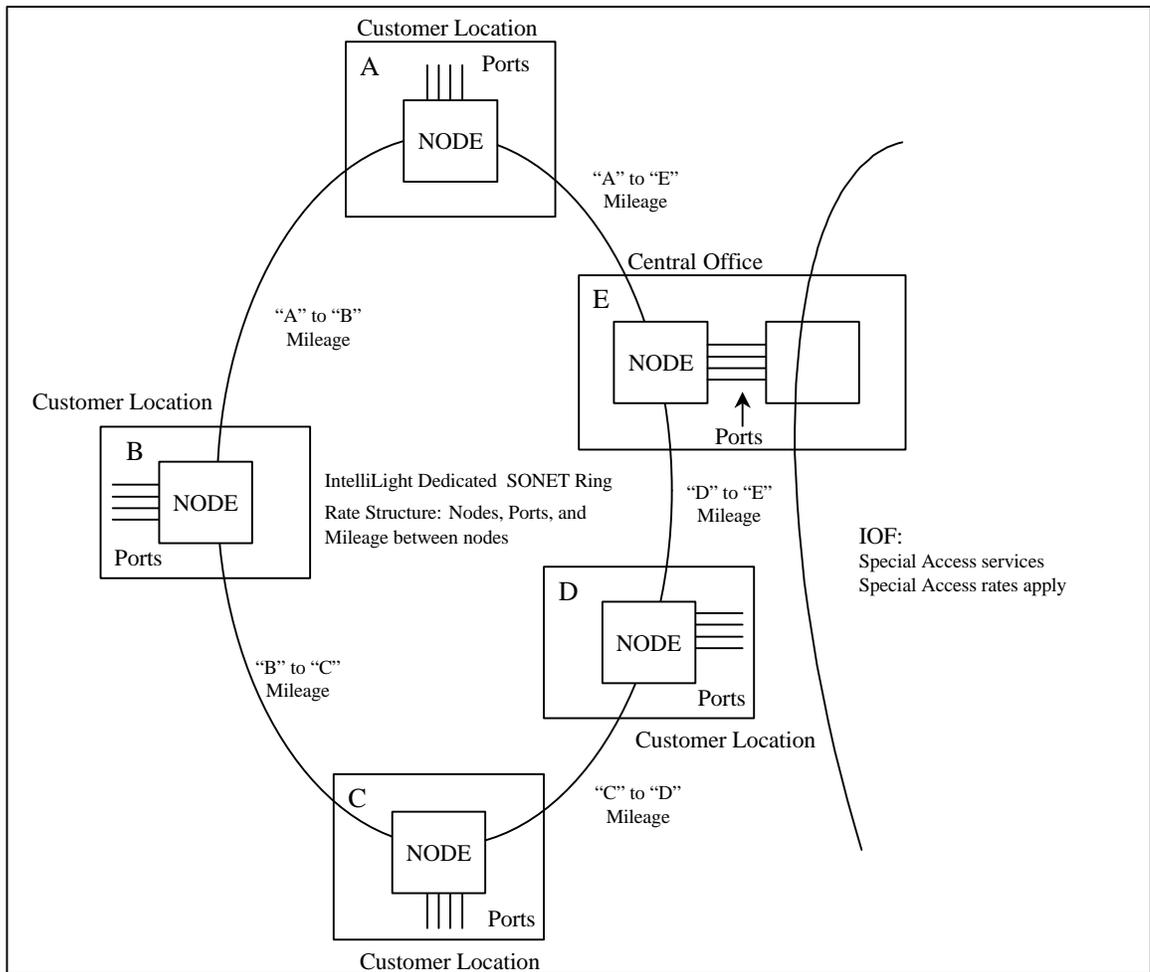
7.2.17 IntelliLight® Dedicated SONET Ring (Cont'd)

(N)

(A) General (Cont'd)

(1) Terms and Conditions (Cont'd)

An example of an IntelliLight Dedicated SONET Ring is diagrammed below:



(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.17 IntelliLight® Dedicated SONET Ring (Cont'd)

(N)

(A) General (Cont'd)

(1) Terms and Conditions (Cont'd)

IDSRs are available for 3, 5 and 7 year commitment periods for the ports, nodes and mileage. IDSR ports are also available on monthly terms. Nodes and ports added subsequent to the initial installation may be coterminous to the expiration date of the IDSR provided the addition is prior to the 21st month for a 3-year plan, prior to the 36th month for a 5-year plan, or prior to the 50th month for a 7-year plan. Nodes added after the aforementioned periods require extending the commitment period for an additional one year for a 3-year plan, an additional 2 years for a 5-year plan, or an additional 3 years for a 7-year plan. However, ports in a Month-to-Month plan may be added at any time.

Monthly recurring charges apply for the nodes, ports, and the mileage between nodes. Once a term period expires, the prevailing rates of the current plan will continue until the customer cancels service or requests a new term plan.

Nonrecurring charges for IDSR apply on a first and additional basis for the initial installation of ports on a month-to-month term and to subsequent installations for all ports and nodes. Additionally, first and additional charges apply to the subsequent installation of like ports at the same node at the same time.

Changes in Month-to-Month ports are treated as disconnects and subsequent installations.

When High Capacity Service, NYNEX Enterprise Service, ISSP or IBT is provided between two IDSR rings, the associated ports must be symmetrical.

When a lower capacity service is dropped from an IDSR ring, the associated ports will be billed to the lower capacity service.

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.17 IntelliLight® Dedicated SONET Ring (Cont'd)

(N)

(A) General (Cont'd)

(2) Termination Liability

Termination liability applies to IDSR service and is charged per rate element on all nodes and ports, except Month-to-Month ports for which the one month minimum service charge applies.

IDSR service may be canceled without termination liability when cancellation of the IDSR service occurs within thirty (30) days of the effective date of a Telephone Company initiated rate increase of eight percent (8%) or more on any rate applicable to IDSR service.

Termination liability will not apply if a customer changes to a longer term commitment period.

Termination liability will not apply to a customer upgrade (change to a higher capacity) IDSR node or port, if all of the following conditions are met:

- (a) A new commitment period commences with the upgrade.
- (b) The new expiration date must extend beyond the discontinued plan date.
- (c) The new IDSR service is provided at the same customer and/or Company location(s) as the discontinued service plan.
- (d) Additional nodes and ports added at the time of the upgrade incur all applicable rates.

(N)

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.17 IntelliLight® Dedicated SONET Ring (Cont'd)

(A) General (Cont'd)

(2) Termination Liability (Cont'd)

Termination liability will apply when the conditions above are not met and the customer cancels service prior to expiration of the plan period. If the cancellation occurs within the first year of a term plan, termination liability is equal to 100 percent of the monthly charges for the unexpired portion of the first year, and 15 percent of the monthly charges for the remainder of the plan. If the customer cancels after the first year of service, then termination liability is equal to 15 percent of the monthly charges for the remaining life of the term.

(T)
(T)

For IntelliLight Dedicated SONET Ring (IDSR) with a commitment period which was extended under (6) following, termination liability is calculated as the difference between the monthly rates for the highest Term Pricing Plan commitment period that could have been satisfied prior to disconnection of the service or cancellation of the plan and the monthly rates already paid for the expired commitment period and the extended commitment period for the period of time the service was in effect.

(3) Conversions

Customers who wish to move or convert existing High Capacity Special Access Services to an IDSR may do so without conversion charges (termination liability and installation charges) as long as the total capacity of Special Access service purchased by the customer does not decrease.

(4) Deployment and Availability

Since IDSR service provides a dedicated high capacity customized network, it is deployed upon customer request. Where SONET facilities are not generally available, rates and charges as set forth in The Bell Atlantic Telephone Companies Tariff F.C.C. No. 13, Special Construction, may apply.

IDSR is available based on negotiated intervals as described in 5.2.1(B) preceding.

(5) Shared Use

The regulations applicable to the shared use of IDSR is set forth in Section 5.2.7 preceding.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.17 IntelliLight® Dedicated SONET Ring (Cont'd)

(A) General (Cont'd)

(6) Extension of a Commitment Period

For IntelliLight Dedicated SONET Ring (IDSR), the customer also has the option, within sixty (60) days prior to the expiration date for its commitment period, to extend its expiring Term Pricing Plan to a plan with a longer commitment period, for which time-in-service credit will be allowed for the expiring plan. The commitment period selected for the extended plan must be longer than the commitment period of the expiring plan as follows:

- An expiring 3-Year Term may be extended to either a 5-Year or 7-Year Term Plan.
- An expiring 5-Year Term may be extended to a 7-Year Term Plan.

Time-in-service credit on the expiring plan will be granted and applied towards the new extended plan. For example, an expiring 3-Year term plan will allow for 3 years of time-in-service credit towards the extended plan.

The rate for the longer commitment period will apply effective with the first bill day following expiration of the commitment period for the existing plan and continue through the remainder of the commitment period associated with the extended plan. No adjustment for the increased discount associated with the extended plan will be made to the monthly rates already billed on the expiring plan. (T)

(7) Channel Interface Codes

The following channel interface codes are for use with IDSR:

<u>CI</u>	<u>CI</u>	<u>CI</u>	
02SOF.B	04ST6.A	04DU9.CN	
02SOF.BB	04SOF.B		(D)
02SOF.BU	04SOF.D	04DU9.SN	
02SOF.D	04SOF.F	04DU9.1KN	
02SOF.DB		04DU9.1SN	
02SOF.DU	04ST6.A	04DS9.1K	
02SOF.F		04DS9.1S	
02SOF.FB	04DS6.44	04DS9.1SN	
02SOF.FU	04DS6.44I		(D)
02SOF.I		04DS9.15S	(Z)
02SOF.U		04DS9.15K	

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.18 LAN Extension Service(A) General

LAN Extension Service (LES) provides fiber transport connectivity of local area networks only between:

- a customer's point-of-presence and their end-user's designated premises, or
- a customer's Expanded Interconnection multiplexing node or virtual collocation arrangement and their end-user's designated premises.

At the end-user's designated premises, the network interface defines the type and speed of service as being either a 10Mbps, 100Mbps or 1Gbps Ethernet interface or a 16Mbps Token Ring interface as specified by the customer in its order for service.

(B) Service Description

- (1) LES consists of two dedicated fiber strands between the locations involved. At the end-user's designated premises, the Telephone Company will deliver service as specified by the customer through the network interface. This interface converts the optical signal to an electrical Ethernet signal at speeds of 10Mbps, 100Mbps or a Token Ring signal of 16Mbps. The interface also converts the optical signal to a customer optical handoff for 1 Gbps Ethernet. At the point-of-presence, Expanded Interconnection multiplexing node, or virtual collocation arrangement, the Telephone Company will deliver the optical Ethernet or Token Ring signal through a two-fiber connection to the customer's fiber distributing frame.
- (2) LES will be provided where suitable fiber optic facilities exist between the locations involved. Where facilities do not exist, the Company may agree to specially construct facilities subject to the provisions set forth in Sections 2.1.4, Provision of Services, and 5.1.3, Special Construction, preceding.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.18 LAN Extension Service (Cont'd)(B) Service Description (Cont'd)

- (3) The service interval for installation of LES is provided on a negotiated basis as described in Section 5.2.1, preceding.
- (4) The customer must provide a protected path for all network fibers located on private property; sufficient AC power and a secure environment for the Telephone Company's network interface equipment located at the customer's designated premises; and reasonable access to its locations as needed by the Company personnel in the provision and maintenance of service. In addition, the customer must provide relay rack or wall space for mounting of the network interface device.

The Company's equipment at the customer's end-user location must be on conditioned power circuits (surge protected) for which the Company recommends an uninterruptible power supply (UPS).

The customer is responsible for any damage to the Company's network equipment resulting from problems with power provided by the customer at its locations. With the exception of connecting customer provided equipment to the network interface device, the customer may not attempt to modify, adjust or otherwise change facilities or network equipment used in the provision of service. Tampering with Company owned equipment and/or facilities will result in immediate termination of LES.

The customer is responsible for all wiring and connections to its side of the network interface or fiber distributing frame, as applicable, and for the installation, operation, and maintenance of its customer provided equipment.

The Telephone does not provide monitoring of LES. The customer may perform its own monitoring using surveillance equipment within its own network.

- (5) No credit for service interruptions is provided with LES.
- (6) When service is provided to an Expanded Interconnection multiplexing node or virtual collocation arrangement, the customer must provide connecting facility assignment (CFA) information (CFA) to the designated fiber cross connect in its network.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.18 LAN Extension Service (Cont'd)(C) Technical Specifications

(1) Connections

The following network interface options are available at the end-user's designated premises with LES are as follows:

10Mbps Canoga Perkins 8835 Interface-AUI or 10BaseT
Canoga Perkins 9135 Interface-AUI
Canoga Perkins 8872 Interface-Male AUI or 10BaseT
16Mbps Adva City LAN 16 - RJ45 UTP or STP
100Mbps Canoga Perkins 9135 Interface-100BaseTx
1Gbps Cisco 3512 Interface-1000BaseSx, 1000BaseLx

(2) Limitations

The fiber optic specifications from the network interface at end-user's designated premises to the customer's point-of-presence or an Expanded Interconnection multiplexing node or virtual collocation arrangement for LES are single mode, 1310nm with the following dB loss:

10Mbps Ethernet - 20dB loss or less
16Mbps Token Ring - 20dB loss or less
100Mbps Ethernet - 26dB loss or less
1Gbps Ethernet - 18dB loss or less

The fiber optic specifications from the network interface at end-user's designated premises to the customer's point-of-presence or an Expanded Interconnection multiplexing node or virtual collocation arrangement for LES are single mode, 1550nm with the following dB loss:

1Gbps Ethernet (extended distance) - 26dB loss or less

dB loss is measured to include interoffice facilities (where applicable) and any local and intra-building fibers used in the provision of service.

The Company will provide the necessary fiber converter at the customer's designated premises to meet the interface requirements specified in the order for service.

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(N)

(N)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.18 LAN Extension Service (Cont'd)(D) Rate Regulations

- (1) LAN Extension Service is provided under a term plan of three or five years at the rates and charges as set forth in Section 31.7.20 following. The customer must specify a term plan for each LES ordered.
- (2) Cancellation of the service in whole or in part by the customer prior to the establishment thereof, will require payment to the Company of an amount equal to the total nonrecurring charges for the service order.
- (3) When a customer requests that service be moved to a different premises, point-of-presence, or that the point of demarcation be moved to a different location within the same building, the move will be treated as a disconnection of the existing service and establishment of a new service at the new location.
- (4) If the customer terminates service in whole or in part prior to the end of the selected term plan, a termination charge applies which is equal to the applicable monthly recurring rate for the terminated service multiplied by the number of months remaining in the unexpired portion of the term plan.
- (5) The customer may, at any time, request to change from an existing term plan to a new term plan of equal or greater length without the application of termination liability.
- (6) The customer may discontinue service without the application of a termination liability charge if the Telephone Company initiates a rate increase for LES. The customer must notify the Telephone Company of its intent to discontinue service within sixty days of the effective rate increase. Service must be disconnected within ninety days of the effective rate increase.
- (7) Once the term period has expired, prevailing rates for the expiring term plan will apply.

(N)

(N)

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.18 LAN Extension Service (Cont'd)(D) Rate Regulations (Cont'd)

(8) The rates and charges for LES apply include channel terminations and channel mileage.

- LES Channel Termination rates and charges apply per point of termination for the transmission facilities connecting a customer designated premises or Expanded Interconnection arrangement to its associated service wire center. A Channel Termination applies to service provided at a customer designated premises. The Channel Termination is differentiated as either including a converter or being provided without a converter. An Office Channel Termination applies to service provided to an Expanded Interconnection multiplexing node. A Virtual Office Channel Termination applies to service provided to an Expanded Interconnection virtual collocation arrangement. Included as part of the channel termination with a converter is a network interface that converts the optical signal to the type and speed of service designated by the customer in its order for service. The channel termination without a converter provides for a 2-fiber connection to the customer's fiber distributing frame. All other regulations applicable to the channel termination rate category apply as set forth in 7.1.2, preceding.

- Channel mileage rates applies on a fixed and per mile basis for the transmission facilities connecting the serving wire centers of the locations involved.

(9) A single nonrecurring charge is applicable with the installation of each LES channel termination.

(10) The minimum period for LAN Extension Service is 36 months.

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(N)

(N)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes

This section explains the Channel Interface codes and Network Channel codes that the customer must specify when ordering Special Access Service. Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces.

Example: If the customer specifies a NT Network Channel Code and a 02DC8.3 Channel Interface at the customer's designated premises, the following is being requested: (T)

NT = Metallic Channel with a Predefined Technical Specification Package (1)

02 = Number of physical wires at customer designated premises (T)

DC = Facility interface for direct current or voltage

8 = Variable impedance level

3 = Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

7.3.1 Glossary of Channel Interface Codes and Options

Code	<u>Option</u>	<u>Definition</u>
AB	-	accepts 20 Hz ringing signal at customer's Point of Termination
AC	-	accepts 20 Hz ringing signal at customer's end user's Point of Termination
AH	-	analog high capacity interface
	- B	60 kHz to 108 kHz (12 channels)
	- C	312 kHz to 552 kHz (60 channels)

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
CS-		digital hierarchy interface at a digital cross-connect system
-	10R	reconfigurable through DCS at DS1 to DSO level
-	11R	reconfigurable through DCS at DS1 to DS1 level
-	15	1.544 Mbps (DS1) format per PUB 62411 Plus D4
-	15B*	1.544 Mbps (DS1) Superframe (SF) format and B8ZS clear channel capability
-	15J*	1.544 Mbps (DS1) per PUB 62411
-	15K*	1.544 Mbps (DS1) format per PUB 62411 plus extended framing format
-	15L*	1.544 (DS1) format with SF signaling
-	15S*	1.544 Mbps (DS1) format with B8ZS clear channel capability per Technical Reference PUB TR-INS-000342
-	44	44.736 Mbps
-	30R	reconfigurable through DCS at DS3 to DSO level
-	31R	reconfigurable through DCS at DS3 to DS1 level
CT-		Centrex Tie Trunk Termination
DA-		data stream in VF frequency band at customer's end user's Point of Termination
DB-		data stream in VF frequency band at customer's Point of Termination
-	10	Frequency shift (108 data set type)
-	43	43A1 to 43B1 Carrier format

* For mid-Link applications only.

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>	
DC-		direct current or voltage	
-	1	monitoring interface with series RC combination (McCulloh format)	
-	2	Telephone Company energized alarm channel	
-	3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)	
DD-		DATAPHONE Select-A-Station (and TABS) interface at customer's Point of Termination	
DE-		DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's Point of Termination	
DS-		digital hierarchy interface	
-	1S	1.544 Mbps (DS1) ANSI T1.403-1989 Extended Superframe (ESF) and B8ZS Clear Channel Capability	
-	15	1.544 Mbps (DS1) format per PUB 62411 plus D4	
-	15B	1.544 Mbps (DS1) Superframe (SF) format and B8ZS Clear Channel Capability	
-	15E	8-bit PCM encoded in one 64 kbps of the DS1 signal	
-	15F	8-bit PCM encoded in two 64 kbps of the DS1 signal	
-	15G	8-bit PCM encoded in three 64 kbps of the DS1 signal	
-	15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal	
-	15J	1.544 Mbps (DS1) format per PUB 62411	
-	15K	1.544 Mbps (DS1) format per PUB 62411 plus extended framing format	
-	15L	1.544 Mbps (DS1) with SF signaling	
-	15S	1.544 Mbps (DS1) format with B8ZS Clear Channel Capability per Technical Reference PUB TR-INS-000342	
-	31	3.152 Mbps (DS1C)	
-	31L	3.152 Mbps (DS1C) with SF signaling	
-	44	44.736 Mbps (DS3)	
-	44A	44.736 Mbps digital video and audio; or 44.736 Mbps (DS3) unchannelized and C-Bit Parity per GR-342, Issue 1	
-	44I	44.736 Mbps (DS3) with C-Bit Parity	(Z)
-	44L	44.736 Mbps (DS3) with SF signaling	

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DU-		digital access interface
-	19	19.2 kbps
-	19S	19.2 kbps with Secondary Channel Capability
-	24	2.4 kbps
-	24S	2.4 kbps with Secondary Channel Capability
-	48	4.8 kbps
-	48S	4.8 kbps with Secondary Channel Capability
-	56	56.0 kbps
-	56S	56.0 kbps with Secondary Channel Capability
-	96	9.6 kbps
-	96S	9.6 kbps with Secondary Channel Capability
-	A	1.544 Mbps (DS1) format per PUB 62411
-	B	1.544 Mbps (DS1) format per PUB 62411 plus D4
-	lK	1.544 Mbps (DS1) format per PUB 62411 plus extended framing format
-	D	1.544 Mbps (DS1) Superframe (SF) format per TR-NPL-000054 with B8ZS Clear Channel Capability
-	S	1.544 Mbps (DS1) format with B8ZS Clear Channel Capability per TR-NPL-000054
DV-		data/voice interface
-	BA	2.4 kbps
-	BB	4.8 kbps
-	BC	9.6 kbps
-	BL	19.2 kbps
DX-		duplex signaling interface at customer's Point of Termination
DY-		duplex signaling interface at customer's end user's Point of Termination

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
EA	- E	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead
EA	- M	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead
EB	- E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead
EB	- M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead
EC	-	Type III E&M signaling at customer POT
EX	- A	tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions
EX	- B	tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
FC-		optical interface
FC-	13	135 Mbps (3 - DS3s) optical interface transmission bit rate
	20	200 Mbps optical interface transmission bit rate
FC-	40	405 Mbps (9 - DS3s) optical interface transmission bit rate
FC-	54	560 Mbps (12 - DS3s) optical interface transmission bit rate
GO-		ground start loop signaling - open end function by customer or customer's end user
GS-		ground start loop signaling - closed end function by customer or customer's end user
-	C	Centrex foreign exchange termination
-	M	for termination in central office located answering service concentrator
IA-		E.I.A. (25 pin RS-232)
LA-		end user loop start loop signaling - Type A OPS registered port open end
LB-		end user loop start loop signaling - Type B OPS registered port open end
LC-		end user loop start loop signaling - Type C OPS registered open end
LO-		loop start signaling - open end function by customer or customer's end user

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
LR-		20 Hz automatic ringdown interface at customer POT with Telephone Company provided PLAR
-	A*	DA Type PLAR channel unit signaling format
-	B*	DS Type PLAR channel unit signaling format
LS-		loop start loop signaling - closed end function by customer or customer's end user
-	M	for terminating in central office located answering service concentrator
NO-		no signaling interface, transmission only
SO-		SONET Optical
-	AB	Long Range Multilongitudinal Mode (LR1-MLM) Bidirectional Ring
-	AU	LR1-MLM Unidirectional Ring
-	BB	Long Range Single Longitudinal Mode (LR1-SLM) Bidirectional Ring
-	BU	LR1-SLM Unidirectional Ring
-	CB	Intermediate Range Multilongitudinal Mode (IR1-MLM) Bidirectional Ring
-	CU	IR1-MLM Unidirectional Ring
-	DB	Intermediate Range Single Longitudinal Mode (IR1-SLM) Bidirectional Ring
-	DU	IR1-SLM Unidirectional Ring
-	EB	Short Range Multilongitudinal Mode Light Emitting Diode (SR-MLM/LED) Bidirectional Ring
-	EU	SR-MLM/LED Unidirectional Ring
-	FB	Short Range Multilongitudinal Mode (SR-MLM) Bidirectional Ring
-	FU	SR-MLM Unidirectional Ring
ST-		Synchronous Transmission Signal (STS)
-	A	STS-1 (51.840 Mbps)

* The designation of the A or B option signifies the type of channel unit employed at the distant end.

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>	
PG-		program transmission - no dc signaling	
-	1	nominal frequency from 50 to 15000 Hz	
-	3	nominal frequency from 200 to 3500 Hz	
-	5	nominal frequency from 100 to 5000 Hz	
-	8	nominal frequency from 50 to 8000 Hz	
PR-		protective relaying*	
RV-	0	reverse battery signaling, one way operation, originate by customer	
-	T	reverse battery signaling, one way operation, terminate function by customer or customer's end user	
SF-		single frequency signaling with VF band at either customer POT or customer's end user POT	
TB	-0	19.39 Mbps broadband digital video transport (receive only)	(N)
	0-	19.39 Mbps broadband digital video transport (transmit only)	(N)
TD	-0	serial component digital video-uncompressed (receive only)	
	0-	serial component digital video-uncompressed (transmit only)	
TE	-0	45 Mbps broadband digital video transport (receive only)	(N)
	0-	45 Mbps broadband digital video transport (transmit only)	(N)
TF-		telephotograph interface	
TT-		telegraph/teletypewriter interface at either customer POT or customer's end user POT	
-	2	20.0 milliamperes	
-	3	3.0 milliamperes	
-	6	62.5 milliamperes	

* Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
TV-		television interface
-	0	video signal only (no audio)
-	1	combined (diplexed) video and one 15kHz audio signal
-	2	combined (diplexed) video and two 15kHz audio signals
-	5	video plus one (or two) two-wire 5 kHz audio signal(s)
-	15	video plus one (or two) 15 kHz audio signal(s)
-	15A	video plus one through four 15 kHz audio signal(s)
-	17	video and composite BTSC stereo audio signal
-	20	video plus one through four 20 kHz audio signal(s)
WA-		wideband bandwidth interface at customer's end user POT
-	1	limited bandwidth
-	2	nominal passband from 29000 to 44000 Hz

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
WB	-	wideband data interface at customer POT
	- 18S	18.75 kbps, synchronous
	- 19A	up to 19.2 kbps asynchronous
	- 19S	19.2 kbps synchronous
	- 23A	up to 230.4 kbps, asynchronous
	- 23S	230.4 kbps, synchronous
	- 40S	40.8 kbps, synchronous
	- 50A	up to 50.0 kbps, asynchronous
	- 50S	50.0 kbps, synchronous
WC	-	wideband data interface at customer's end user POT
	- 18	18.75 kbps, synchronous
	- 19	for 12-wire interface: 19.2 kbps, synchronous for 10-wire interface: up to 19.2 kbps, asynchronous
	- 23	up to 230.4 kbps, asynchronous
	- 23S	230.4 kbps, synchronous
	- 40	40.8 kbps, synchronous
	- 50	for 12-wire interface: 50.0 kbps, synchronous for for 10-wire interface: up to 50.0 kbps, asynchronous
WD	-	wideband bandwidth interface at customer POT
	- 1	nominal passband from 300 to 18000 Hz
	- 2	nominal passband from 28000 to 44000 Hz
	- 3	nominal passband from 29000 to 44000 Hz

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network-Channel Codes (Cont'd)7.3.2 Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

<u>Value (ohms)</u>	<u>Code(s)</u>
110	0
150	1
600	2
900	3+
135	5
75	6
124	7
Variable	8
100	9

- + For those interface codes with a 4-wire transmission path at the customer designated POT, rather than a standard 900 ohm impedance, the code (3) denotes a customer provided transmission equipment termination. Such terminations were provided to customers in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.3 Digital Hierarchy Channel Interface Codes (4DS)

Customers selecting the multiplexed four-wire DS1 or higher facility interface option at the customer designated premises will be requested to provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 04STF, 4DS9, 4DS6 or 04SOF plus the speed options indicated below:

<u>Interface Code and Speed Option</u>	<u>Nominal Bit Rate(Mbps)</u>	<u>Digital Hierarchy Level</u>
4CS9-15	1.544	DS1
4DS9-15	1.544	DS1
4DS9-31	3.152	DS1C
4DS6-44	44.736	DS3
04STF-A	51.840	STS-1
<u>Optical Fiber Interface Option Code and Speed Option</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Number of Equivalent DS3s</u>
2FCF-13	135	3
2FCF-40	405	9
2FCF-54	560	12
04SOF-A*,C*,E* OR F*	155.520	3
045OF-A*,B*,C*,D*,E* OR F*	622.080	12
04SOF-A*,B*,C*,D*,E* OR F*	2488.320 (2.488 GBPS)	48

* B or U

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.4 Service Designator/Network Channel Code Conversion Table

The purpose of this table is to show the relationship between the service designator codes (e.g. VGC, MT2, etc.) and the network channel codes that are used for various administrative purposes.

<u>Service Designator Code</u>	<u>Network Channel Code</u>
MTC	MQ
MT1	NT
MT2	NU
MT3	NV
TGC	NQ
TG1	NW
TG2	NY
VGC	LQ
VG1	LB
VG2	LC

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.4 Service Designator/Network Channel Code Conversion Table (Cont'd)

<u>Service Designator</u> <u>Code</u>	<u>Network Channel</u> <u>Code</u>
VG3	LD
VG4	LE
VG5	LF
VG6	LG
VG7	LH
VG8	LJ
VG9	LK
VG10	LN
VG11	LP
VG12	LR
APC	PQ
AP1	PE
AP2	PF
AP3	PJ
AP4	PK
TVC	TQ
TVD	DS
TV1D	TV
TV1	TV
TV2	TW
TV3	TZ
WA1	WJ
WA2	WL
WA3	WN
WA4	WP
WD1	WB
WD2	WE

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.4 Service Designator/Network Channel Code Conversion Table (Cont'd)

<u>Service Designator</u> <u>Code</u>	<u>Network Channel</u> <u>Code</u>
WD3	WF
DA1	XA
DA2	XB
DA3	XG
DA4	XH
DA5	XE
DOV	LV
HC0	HS
HC1	HC
HC1C	HD
HC3	HF, HH
WAL1	SE
WAL1	SF*
WAL2	SF
OC3	OB
OC12	OD
OC48	OF

* New England Telephone only.

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces

The following tables show the channel interface codes (CIs) which are compatible:

(A) Metallic

Compatible CIs

02DC8.1	02DC8.2
02DC8.3	02DC8.3
04DS6.*	02DC8.1
04DS6.*	02DC8.2
04DS9.*	02DC8.1
04DS9.*	02DC8.2

(T)

(T)

* See 7.3.3 preceding for explanation.

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(B) Telegraph Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		
04CS9.*	02TT2.2	04DB2.43+	04TT2.2	02TT2.2	02TT2.2	(T)
04CS9.*	02TT2.6			02TT2.3	02TT2.2	
04CS9.*	04TT2.2			02TT2.3	04TT2.2	
04CS9.*	04TT2.6	04DS6.*	02TT2.2	02TT2.6	02TT2.6	
		04DS6.*	02TT2.6	02TT2.6	04TT2.2	
		04DS6.*	04TT2.2	04TT2.2	04TT2.2	
		04DS6.*	04TT2.6	04TT2.6	02TT2.6	
02DB2.10	02TT2.2					
02DB2.10	04TT2.2					
02DB2.43+	02TT2.2	04DS9.*	02TT2.2			
		04DS9.*	02TT2.6			
02DB2.43+	02TT2.6	04DS9.*	04TT2.2			
02DB2.43+	04TT2.2	04DS9.*	04TT2.6			
04DB2.10	02TT2.2					
04DB2.10	04TT2.2					
04DB2.43+	02TT2.6					(T)

* See 7.3.3 preceding for explanation.

+ Supplemental Channel Assignment information required.

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		
04AB2	04AB2	04CS9.*	09DY2	04CS9.*	02LA2	(T)
		04CS9.*	09DY3	04CS9.*	02LB2	
04AB2	04AC2	04CS9.*	06DY3	04CS9.*	02LC2	
04AB3	04AC2	04CS9.*	06DY2			
04AB2	02AC2	04CS9.*	04DY2	04CS9.*	02LO2	
04AB3	02AC2	04CS9.*	02DY2	04CS9.*	02LO3	
02AB2	02AC2					
02AB3	02AC2	04CS9.*	09EA2	04CS9.*	04LR2	
		04CS9.*	09EA3	04CS9.*	02LR2	
04AB2	04SF2	04CS9.*	06EA2.E			
04AB3	04SF2	04CS9.*	06EA2.M	04CS9.*	06LS2	
		04CS9.*	04EA2.E	04CS9.*	04LS2	
04AC2	04AC2	04CS9.*	04EA2.M	04CS9.*	02LS2	
04AC2	02AC2			04CS9.*	02LS3***	
		04CS9.*	08EB2.E			
04CS9.*	04AC2	04CS9.*	08EB2.M	04CS9.*	02N02	
04CS9.*	02AC2	04CS9.*	06EB2.E			
		04CS9.*	06EB2.M	04CS9.*	04RV2.T	
04CS9.*	06DA2			04CS9.*	02RV2.T	
04CS9.*	04DA2	04CS9.*	02G02			
04CS9.*	02DA2	04CS9.*	02G03	04CS9.*	04SF3	
04CS9.*	04DE2					
04CS9.*	02DE2	04CS9.*	06GS2	04CS9.*	04TF2	
04CS9.*	04DX2	04CS9.*	04GS2	04CS9.*	02TF2	
04CS9.*	04DX3	04CS9.*	02GS2			
		04CS9.*	02GS3**			(T)

* See 7.3.1 preceding for explanation. The Channel Interface 04CS6.* may be substituted for 04CS9.* (T)
 ** The "C" and "M" options as described in 7.3.1 preceding are also available with this combination (i.e., 02GS3.C or 02GS3.M). (T)
 *** The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 02LS3.M). (T)

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs#</u>		<u>Compatible CIs#</u>		<u>Compatible CIs#</u>		(C)
04CT2	04CS9.#	02CT3	08EB2.E	06DA2	06DA2	(T)
02CT3	04CS9.#	02CT3	08EB2.M	06DA2	04DA2	
		02CT3	06EB2.E	06DA2	02DA2	
		02CT3	06EB2.M	04DA2	04DA2	
		02CT3	06EB3.E	04DA2	02DA2	
02CT3	04DS6.*			02DA2	02DA2	
02CT2	04DS9.*	02CT3	08EC2			
				04DB2	06DA2	
02CT3	06DX2	04CT2	04SF2	04DB2	04DA2	
02CT3	04DX2	02CT3	04SF2	04DB2	02DA2	
02CT3	04DX3	02CT3	04SF3	02DB3	02DA2	
				02DB2	02DA2	
02CT3	09DY3	04CT2	04DS9.*			
02CT3	06DY3			04DB2	04DB2	
02CT3	09DY2	04CT2	04DX2+			
02CT3	06DY2	04CT2	02DX2**	04DB2	04N02	
02CT3	04DY2			04DB2	02N02	
02CT3	02DY2	04CT2	06EA2.E			
		04CT2	06EA2.M	04DB2	04PR2	
02CT3	09EA3			04DB2	02PR2	
02CT3	09EA2	04CT2	08EB2.E	02DB2	02PR2+	
02CT3	06EA2.E	04CT2	08EB2.M			
02CT3	06EA2.M	04CT2	08EC2			
02CT3	04EA2.E					
02CT3	04EA2.M					

* See 7.3.3. preceding for explanation.

** New York Telephone only.

+ New England Telephone only.

See 7.3.1 preceding for explanation. The Channel Interface 04C26.# may be substituted for 04CS9.#.

≠ The SONET channel interface code 02SOF.B, D or F; 04SOF.B, D or F; or 04SMF.A3, A21, A12, AC, AF, A03, B, B9, C6, E, EE, FD, GC, or H may be substituted for the channel interface code 04DS6.* or 04DS9.*.

(T)
 (N)
 (N)
 (N)

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs#</u>		<u>Compatible CIs#</u>		<u>Compatible CIs#</u>		(C)
04DD3	04DE2	04DS9.*	04DE2	04DS9.*	02DY2	(T)
04DD3	02DE2	04DS9.*	02DE2			
				04DS6.*	09EA2	
04DS6.*	04AC2	04DS9.*	04DX3	04DS6.*	06EA2.E	
04DS6.*	02AC2	04DS6.*	04DX2	04DS6.*	06EA2.M	
04DS9.*	04AC2	04DS9.*	04DX2	04DS6.*	04EA2.E	
04DS9.*	02AC2			04DS6.*	04EA2.M	
		04DS6.*	09DY2	04DS9.*	09EA2	
04DS6.*	06DA2	04DS6.*	06DY2	04DS9.*	09EA3	
04DS6.*	04DA2	04DS9.*	09DY3	04DS9.*	06EA2.E	
04DS6.*	02DA2	04DS9.*	09DY2	04DS9.*	06EA2.M	
04DS9.*	06DA2	04DS9.*	06DY3	04DS9.*	04EA2.E	
04DS9.*	04DA2	04DS9.*	06DY2	04DS9.*	04EA2.M	
04DS9.*	02DA2	04DS6.*	04DY2			
		04DS6.*	02DY2			
04DS6.*	04DE2	04DS9.*	04DY2			(T)

* See 7.3.3 preceding for explanation.
 ≠ The SONET channel interface code 02SOF.B, D or F; 04SOF.B, D or F; or 04SMF.A3, A21, A12, AC, AF, A03, B, B9, C6, E, EE, FD, GC, or H may be substituted for the channel interface code 04DS6.* or 04DS9.*.

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs#</u>		<u>Compatible CIs#</u>		<u>Compatible CIs#</u>		(C)
04DS6.*	08EB2.E	04DS6.*	02LB2	04DS6.*	02N02	(T)
04DS6.*	08EB2.M	04DS9.*	02LB2	04DS9.*	04N02	
04DS6.*	06EB2.E			04DS9.*	02N02	
04DS6.*	06EB2.M	04DS6.*	02LC2			
04DS9.*	08EB2.E	04DS9.*	02LC2	04DS6.*	04PR2	
04DS9.*	08EB2.M			04DS6.*	02PR2	
04DS9.*	06EB2.E	04DS6.*	02LO2	04DS9.*	04PR2	
04DS9.*	06EB2.M	04DS9.*	02LO2	04DS9.*	02PR2	
		04DS9.*	02LO3			
04DS6.*	02GO2			04DS6.*	04RV2.T	
04DS9.*	02GO2	04DS6.*	04LR2	04DS6.*	02RV2.T	
04DS9.*	02GO3	04DS9.*	04LR2	04DS9.*	04RV2.T	
		04DS6.*	02LR2	04DS9.*	02RV2.T	
		04DS9.*	02LR2			
04DS6.*	06GS2					
04DS6.*	04GS2	04DS6.*	06LS2	04DS6.*	04SF2	
04DS6.*	02GS2	04DS6.*	04LS2	04DS9.*	04SF2	
04DS9.*	06GS2	04DS6.*	02LS2	04DS9.*	04SF3	
04DS9.*	04GS2	04DS9.*	06LS2			
04DS9.*	02GS2	04DS9.*	04LS2	04DS6.*	04TF2	
04DS9.*	02GS3**	04DS9.*	02LS2	04DS9.*	04TF2	
		04DS9.*	02LS3***	04DS9.*	02TF2	
04DS6.*	02LA2					
04DS9.*	02LA2	04DS6.*	04NO2			(T)

* See 7.3.3 preceding for explanation.

** The "C" and "M" options as described in 7.3.1 preceding are also available with this combination (i.e., 02GS3.C or 02GS3.M). (T)

*** The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 02LS3.M). (T)

≠ The SONET channel interface code 02SOF.B, D or F; 04SOF.B, D or F; or 04SMF.A3, A21, A12, AC, AF, A03, B, B9, C6, E, EE, FD, GC, or H may be substituted for the channel interface code 04DS6.* or 04DS9.*. (N)

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		
04DX2	04DX2	04DX3	06DY3	04DX3	09EA2	(T)
04DX3	04DX2	04DX2	06DY2	04DX2	09EA3	
04DX3	04DX3	04DX3	06DY2	04DX3	09EA3	
		04DX2	04DY2	04DX2	06EA2.E	
06DX2	09DY3	04DX3	04DY2	04DX3	06EA2.E	
06DX2	09DY2	04DX2	02DY2	04DX2	06EA2.M	
06DX2	06DY3	04DX3	02DY2	04DX3	06EA2.M	
06DX2	06DY2			04DX2	04EA2.E	
06DX2	04DY2	06DX2	09EA3	04DX3	04EA2.E	
06DX2	02DY2	06DX2	09EA2	04DX2	04EA2.M	
04DX2	09DY3	06DX2	06EA2.E	04DX3	04EA2.M	
04DX3	09DY3	06DX2	06EA2.M			
04DX2	09DY2	06DX2	04EA2.E			
04DX3	09DY2	06DX2	04EA2.M			
04DX2	06DY3	04DX2	09EA2			(T)

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		
06DX2	08EB2.E	04DX2	06LS2	09DY2	06DY3	(T)
06DX2	08EB2.M	04DX3	06LS2	09DY3	04DY2	
06DX2	06EB2.E	04DX3	04LS2	09DY2	04DY2	
06DX2	06EB2.M	04DX2	04LS2	09DY2	02DY2	
04DX2	08EB2.E	04DX3	02LS3*	09DY3	02DY2	
04DX2	08EB2.M	04DX2	02LS3*	06DY3	06DY3	
04DX3	08EB2.E	04DX3	02LS2	06DY3	06DY2	
04DX3	08EB2.M	04DX2	02LS2	06DY2	06DY2	
04DX2	06EB2.E	02DX3	02LS2	06DY3	04DY2	
04DX2	06EB2.M	02DX3	02LS3*	06DY3	02DY2	
04DX3	06EB2.E			06DY2	04DY2	
04DX3	06EB2.M	04DX3	04RV2.T	06DY2	02DY2	
		04DX2	04RV2.T	04DY2	02DY2	
04DX2	02LA2	04DX3	02RV2.T	04DY2	04DY2	
04DX3	02LA2	04DX2	02RV2.T	02DY2	02DY2	
02DX3	02LA2					
		06DX2	04SF2	06EA2.E	04AC2	
04DX2	02LB2	04DX2	04SF2	06EA2.M	04AC2	
04DX3	02LB2	04DX3	04SF2	06EA2.E	02AC2	
02DX3	02LB2	04DX2	04SF3	06EA2.M	02AC2	
		04DX3	04SF3			
04DX2	02LC2			09EA2	09DY3	
04DX3	02LC2	09DY3	09DY3	09EA2	09DY2	
02DX3	02LC2	09DY3	09DY2	09EA2	06DY3	
		09DY2	09DY2	09EA2	06DY2	
04DX2	02LO3	09DY3	06DY3	09EA2	04DY2	
04DX3	02LO3	09DY3	06DY2	09EA2	02DY2	
		09DY2	06DY2	09EA3	09DY3	(T)

* The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 02LS3.M).

(T)

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
09EA3	09DY2	04EA2.M	09DY2	04EA2.E	09EA2
09EA3	06DY3	04EA2.M	06DY3	04EA2.E	09EA3
09EA3	06DY2	04EA2.M	06DY2	04EA2.M	04EA2.M
09EA3	04DY2	04EA2.M	04DY2		
09EA3	02DY2	04EA2.M	02DY2	09EA2	08EB2.E
06EA2.E	09DY3			09EA2	08EB2.M
06EA2.E	09DY2	09EA2	09EA2	09EA2	06EB2.E
06EA2.E	06DY3	09EA2	09EA3	09EA2	06EB2.M
06EA2.E	06DY2	09EA2	06EA2.E	09EA3	08EB2.E
06EA2.E	04DY2	09EA2	06EA2.M	09EA3	08EB2.M
06EA2.E	02DY2	09EA2	04EA2.E	09EA3	06EB2.E
06EA2.M	09DY3	09EA2	04EA2.M	09EA3	06EB2.M
06EA2.M	09DY2	09EA3	09EA3	06EA2.E	08EB2.E
06EA2.M	06DY3	09EA3	06EA2.E	06EA2.E	08EB2.M
06EA2.M	06DY2	09EA3	06EA2.M	06EA2.E	06EB2.E
06EA2.M	04DY2	09EA3	04EA2.E	06EA2.E	06EB2.M
06EA2.M	02DY2	09EA3	04EA2.M	06EA2.M	08EB2.E
04EA3.E	09DY3	06EA2.E	06EA2.E	06EA2.M	08EB2.M
04EA3.E	09DY2	06EA2.E	06EA2.M	06EA2.M	06EB2.E
04EA3.E	09DY3	06EA2.M	06EA2.M	06EA2.M	06EB2.M
04EA3.E	09DY2	06EA2.E	04EA2.E	04EA2.E	08EB2.E
04EA3.E	06DY3	06EA2.E	04EA2.M	04EA2.E	08EB2.M
04EA3.E	06DY2	06EA2.M	04EA2.E	04EA3.E	08EB2.E
04EA3.E	04DY2	06EA2.M	04EA2.M	04EA3.E	08EB2.M
04EA3.E	02DY2	04EA2.E	04EA2.E	04EA2.E	06EB2.E
04EA2.E	06DY3	04EA3.E	06EA2.E	04EA2.E	06EB2.M
04EA2.E	06DY2	04EA3.E	06EA2.M	04EA3.E	06EB2.E
04EA2.E	04DY2	04EA3.E	04EA2.E	04EA3.E	06EB2.M
04EA2.E	02DY2	04EA3.E	04EA2.M	04EA2.M	08EB2.E
04EA2.M	09DY3	04EA2.E	04EA2.M		

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		
04EA2.M	08EB2.M	09EA3	04SF2	06EB3.E	09DY2	(T)
04EA2.M	06EB2.E	09EA2	04SF2	06EB3.E	09DY3	
04EA2.M	06EB2.M	06EA2.E	04SF3	06EB2.E	06DY2	
		06EA2.M	04SF3	06EB3.E	06DY2	
06EA2.E	02LA2	06EA2.E	04SF2	06EB2.E	06DY3	
06EA2.M	02LA2	06EA2.M	04SF2	06EB3.E	06DY3	
		04EA3.E	04SF2	06EB2.E	04DY2	
06EA2.E	02LB2	04EA2.E	04SF2	06EB3.E	02DY2	
06EA2.M	02LB2	04EA2.M	04SF2	06EB3.E	04DY2	
				06EB3.M	09DY2	
06EA2.E	02LC2	08EB2.E	04AC2	06EB2.M	09DY3	
06EA2.M	02LC2	08EB2.M	04AC2	06EB2.M	06DY2	
		08EB2.E	02AC2	06EB2.M	06DY3	
06EA2.E	02LO3	08EB2.M	02AC2	06EB2.M	04DY2	
06EA2.M	02LO3			06EB2.E	02DY2	
		08EB2.E	09DY3	06EB2.M	02DY2	
06EA2.E	06LS2	08EB2.E	09DY2			
06EA2.M	06LS2	08EB2.E	06DY3	06EB3.E	09EA2	
06EA2.E	04LS2	08EB2.E	06DY2	06EB3.E	09EA3	
06EA2.M	04LS2	08EB2.E	04DY2	06EB3.E	06EA2.E	
06EA2.E	02LS2	08EB2.E	02DY2	06EB3.E	06EA2.M	
06EA2.M	02LS2	08EB2.M	09DY3	06EB3.E	04EA2.E	
06EA2.E	02LS3*	08EB2.M	09DY2	06EB3.E	04EA2.M	
06EA2.M	02LS3*	08EB2.M	06DY3			
		08EB2.M	06DY2	08EB2.E	08EB2.E	
06EA2.E	04RV2.T	08EB2.M	04DY2	08EB2.E	08EB2.M	
06EA2.M	04RV2.T	08EB2.M	02DY2	08EB2.M	08EB2.M	
06EA2.E	02RV2.T	06EB2.E	09DY2	08EB2.E	06EB2.E	
06EA2.M	02RV2.T	06EB2.E	09DY3	08EB2.E	06EB2.M	(T)

* The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 02LS3.M).

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		
08EB2.M	06EB2.E	08EB2.E	04RV2.T	08EC2	08EB2.M	(T)
08EB2.M	06EB2.M	08EB2.M	04RV2.T	08EC2	06EB2.E	
06EB2.E	06EB2.E	08EB2.E	02RV2.T	08EC2	06EB2.M	
06EB2.E	06EB2.M	08EB2.M	02RV2.T			
06EB3.E	08EB2.E			08EC2	04SF2	
06EB3.E	08EB2.M	08EB2.E	04SF2			
06EB2.M	06EB2.M	08EB2.M	04SF2	06EX2.B	02G03	
		08EB2.E	04SF3			
08EB2.E	02LA2	08EB2.M	04SF3	06EX2.A	06GS2	
08EB2.M	02LA2	06EB3.E	04SF2	06EX2.A	04GS2	
		06EB2.E	04SF2	06EX2.A	02GS2	
08EB2.E	02LB2	06EB2.M	04SF2	06EX2.A	02GS3**	
08EB2.M	02LB2					
		08EC2	09DY2	06EX2.B	02LA2	
08EB2.E	02LC2	08EC2	09DY3			
08EB2.M	02LC2	08EC2	06DY2	06EX2.B	02LB2	
		08EC2	06DY3			
08EB2.E	02LO3	08EC2	04DY2	06EX2.B	02LC2	
08EB2.M	02LO3	08EC2	02DY2			
				06EX2.B	02LO2	
08EB2.E	06LS2	08EC2	09EA2	06EX2.B	02L03	
08EB2.M	06LS2	08EC2	09EA3			
08EB2.E	04LS2	08EC2	06EA2.E	06EX2.B	04LR2	
08EB2.M	04LS2	08EC2	06EA2.M	06EX2.B	02LR2	
08EB2.E	02LS2	08EC2	04EA2.E			
08EB2.M	02LS2	08EC2	04EA2.M	06EX2.A	06LS2	
08EB2.E	02LS3*			06EX2.A	04LS2	
08EB2.M	02LS3*	08EC2	08EB2.E	06EX2.A	02LS2	
				06EX2.A	02LS3*	(T)

* The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 02LS3.M). (T)

** The "C" and "M" options as described in 7.3.1 preceding are also available with this combination (i.e., 02GS3.C or 02GS3.M). (T)

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		
06EX2.A	04SF2	06L02	06LS2	04LR3	04SF2	(T)
06EX2.B	04SF2	06L02	04LS2			
		06L02	02LS2	06LS2	02LA2	
06G02	06GS2	06L02	02LS3**	04LS2	02LA2	
06G02	04GS2	04L02	06LS2	04LS3	02LA2	
06G02	02GS2	04L02	04LS2	02LS2	02LA2	
06G02	02GS3*	04L03	06LS2	02LS3**	02LA2	
04G02	06GS2	04L03	04LS2			
04G03	06GS2	04L03	02LS3**	06LS2	02LB2	
04G02	04GS2	04L03	02LS2	04LS2	02LB2	
04G03	04GS2	04L02	02LS2	04LS3	02LB2	
04G02	02GS2	04L02	02LS3**	02LS2	02LB2	
04G02	02GS3*	02L03	02LS3**	02LS3**	02LB2	
04G03	02GS2	02L03	02LS2			
04G03	02GS3*	02L02	02LS2	06LS2	02LC2	
02G02	02GS2	02L02	02LS3**	04LS2	02LC2	
02G03	02GS2			04LS3	02LC2	
02G02	02GS3*	06L02	04SF2	02LS2	02LC2	
02G03	02GS3*	04L02	04SF2	02LS3**	02LC2	
		04L03	04SF2			
06G02	04SF2			06LS2	02L03	
04G02	04SF2	04LR3	04LR2	06LS2	02L02	
04G03	04SF2	04LR3	02LR2	04LS2	02L02	
		04LR2	04LR2	04LS2	02L03	
06GS2	02G02	04LR2	02LR2	04LS3	02L02	
04GS2	04G02	02LR2	02LR2	04LS3	02L03	
04GS2	02G02	02LR3	02LR2			
04GS3	02G02					
04GS2	02G03	04LR2	04SF2			(T)

* The "C" and "M" options as described in 7.3.1 preceding are also available with this combination (i.e., 02GS3.C or 02GS3.M). (T)

** The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 02LS3.M). (T)

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		
06LS2	04SF2	04SF2	09DY3	04SF2	02LB2	(T)
04LS3	04SF2	04SF3	06DY3	04SF3	02LB2	
		04SF2	06DY2			
04NO2	06DA2	04SF2	06DY3	04SF2	02LC2	
04NO2	04DA2	04SF3	06DY2	04SF3	02LC2	
04NO2	02DA2	04SF2	04DY2			
02NO2	06DA2	04SF3	04DY2	04SF2	02LO3	
02NO2	04DA2	04SF3	02DY2	04SF3	02LO3	
02NO2	02DA2	04SF2	02DY2			
				04SF2	02LR2	
04NO2	04DE2	04SF3	09EA2	04SF3	04LR2	
04NO2	02DE2	04SF3	09EA3	04SF3	02LR2	
		04SF3	04EA2.E			
04NO2	04NO2	04SF3	04EA2.M	04SF3	06LS2	
04NO2	02NO2			04SF2	04LS2	
02NO2	02NO2	04SF3	06EB2.E	04SF3	04LS2	
02NO3	02NO2	04SF3	06EB2.M	04SF2	02LS2	
				04SF2	02LS3**	
02NO3	02PR2	04SF2	02G03	04SF3	02LS2	
				04SF3	02LS3**	
04RV2.O	04RV2.T	04SF3	06GS2			
04RV2.O	02RV2.T	04SF2	06GS2	04SF3	04RV2.T	
02RV2.O	02RV2.T	04SF2	04GS2	04SF2	04RV2.T	
		04SF3	04GS2	04SF2	02RV2.T	
04RV2.O	04SF2	04SF2	02GS2	04SF3	02RV2.T	
		04SF2	02GS3*			
04SF2	04AC2	04SF3	02GS2	04SF3	04SF3	
04SF2	02AC2	04SF3	02GS3*	04SF3	04SF2	
				04SF2	04SF2	
04SF3	09DY3	04SF2	02LA2			
04SF2	09DY2	04SF3	02LA2	04TF2	04TF2	
04SF3	09DY2			04TF2	02TF2	
				02TF3	02TF2	(T)

* The "C" and "M" options as described in 7.3.1 preceding are also available with this combination (i.e., 02GS3.C or 02GS3.M). (T)

** The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 02LS3.M). (T)

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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(D) Program Audio

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>			
04DS9.15E	02PG1.3	04DS6.44	02PG2.5	02PG2.1	02PG1.1	(T)	
04DS9.15F	02PG1.5	04DS6.44	02PG1.8	02PG2.1	02PG2.1	}	
04DS9.15G	02PG1.8	04DS6.44	02PG2.8	02PG2.3	02PG1.3		
04DS9.15H	02PG1.1	04DS6.44	02PG1.1	02PG2.3	02PG2.3		
04DS9.15E	02PG2.3	04DS6.44	02PG2.1	02PG2.5	02PG1.5		
04DS6.44	02PG1.3	04DS9.15F	02PG2.5	02PG2.5	02PG2.5		
04DS6.44	02PG2.3	04DS9.15G	02PG2.8	02PG2.8	02PG1.8		
04DS6.44	02PG1.5	04DS9.15H	02PG2.1	02PG2.8	02PG2.8		(T)

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(E) Video

(1) Broadcast Video

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		
02TV6.1	04TV6.15	04TV6.15A	04TV6.15A	06TV6.15A	06TV6.15A	(T)
02TV6.1	04TV7.15	04TV6.15	04TV7.15	06TV6.15	06TV7.15	
02TV6.2	06TV6.15	04TV6.15A	04TV7.15A	06TV6.15A	06TV7.15A	
02TV6.2	06TV7.15	04TV7.15	04TV6.15	06TV7.5	06TV6.5	
02TV7.1	04TV6.15	04TV7.15A	04TV6.15A	06TV7.5	06TV7.5	
02TV7.1	04TV7.15	04TV7.15	04TV7.15	06TV7.15	06TV6.15	
02TV7.2	06TV6.15	04TV7.15A	04TV7.15A	06TV7.15A	06TV6.15A	
02TV7.2	06TV7.15	04TV7.5	04TV6.5	06TV7.15	06TV7.15	
04TV6.5	04TV6.5	04TV7.5	04TV7.5	06TV7.15A	06TV7.15A	
04TV6.5	04TV7.5	06TV6.5	06TV6.5	08TV6.15A	08TV6.15A	
04TV6.15	04TV6.15	06TV6.5	06TV7.5	08TV6.15A	08TV7.15A	
		06TV6.15	06TV6.15	10TV6.15A	10TV6.15A	
				10TV6.15A	10TV7.15A	(T)

(2) Supertrunking Transport Video Service

Compatible CIs

04WVF.L	04WVF.L					(T)
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(3) Fiber Based Multichannel Video

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		
04TV6.15A	04TV6.15A	04TV6.17	04TV6.17	08TV6.15A	08TV6.15A	(T)
04TV6.15A	04TV7.15A	04TV6.17	04TV7.17	08TV6.15A	08TV7.15A	
		06TV6.15A	06TV6.15A	10TV6.15A	10TV6.15A	
		06TV6.15A	06TV7.15A	10TV6.15A	10TV7.15A	(T)

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(F) Wideband Analog

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		
04AH5.B	04AH5.B	04AH5.B	04DU9.A,B, or C	04WD5.1	04WA5.1	(T)
04AH6.C	04AH6.C	04AH6.C	04DU9.A,B, or C	04WD5.2	04WA5.1	(T)
				04WD5.3	04WA5.2	(T)

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7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(G) Wideband Data

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		
08WB5.18S	12WC6.18	08WB5.23A	10WC6.23	08WB5.50A	10WC6.50	(T)
08WB5.19A	10WC6.19	08WB5.23S	12WC6.23S	08WB5.50S	12WC6.50	(T)
08WB5.19S	12WC6.19	08WB5.40S	12WC6.40			(T)

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