

## ACCESS SERVICE

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

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

	Available with Technical Specifications Package VG-												
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
Alternate Serving*													
Wire Center	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Type Conditioning	X					X	X	X	X	X	X		
Central Office													
Bridging Capability	X		X			X	X				X	X	X
Central Office													
Multiplexing	X						X						
Customer Specified													
Premises Receive Level	X		X	X				X	X	X			
Data Capability	X						X	X			X		
Improved Return Loss													
(Echo Control)													
At the Four-Wire POT	X	X	X	X		X		X					
At the Two-Wire POT	X		X	X				X					
INFOPATH Service Port	X										X		
Sealing Current													
Conditioning	X						X						
Selective Signaling													
Arrangement	X		X										
Signaling Capability	X	X	X	X				X	X	X			
Telephoto Capability	X											X	
Transfer Arrangement	X	X	X	X	X	X	X	X	X	X	X	X	X

\* Available in New York Telephone only.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(E) Four-Wire/Two-Wire Conversions BSE

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The rate for the conversion is included as part of the basic Channel Termination rate.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 Program Audio Service

(A) Basic Channel Description

A Program Audio channel is a channel measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.4 Program Audio Service (Cont'd)(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package AP-</u>				
	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Actual Measured Loss	X	X	X	X	X
Amplitude Tracking	X				
Crosstalk	X	X	X	X	X
Distortion Tracking	X				
Gain/Frequency Distortion	X	X	X	X	X
Group Delay	X				
Noise	X	X	X	X	X
Phase Tracking	X				
Short-Term Gain Stability	X				
Short-Term Loss	X				
Total Distortion	X	X	X	X	X

The technical specifications are delineated in Technical Reference TR-NPL-000337.

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

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.4 Program Audio Service (Cont'd)(C) Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Program Audio Channel:

<u>CI</u>	<u>Bandwidth</u>
PG-1	Nominal frequency from 50 to 15000 Hz
PG-3	Nominal frequency from 200 to 3500 Hz
PG-5	Nominal frequency from 100 to 5000 Hz
PG-8	Nominal frequency from 50 to 8000 Hz

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

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

Distribution Amplifier

(2) Gain Conditioning BSE

Control of 1004 Hz AML at initiation of service to  $0\text{dB} \pm 0.5\text{ dB}$ .

(3) Stereo

Provision of a pair of gain/phase equalized channels for stereo applications. (Additional AP channel must be ordered separately.)

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.4 Program Audio Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)

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

	Available with Technical Specifications Package AP-				
	C	1	2	3	4
Central Office Bridging Capability	X	X	X	X	X
Gain Conditioning	X	X	X	X	X
Stereo	X				X

7.2.5 Video Service

Video Service requires transmission facilities which are suitable for the delivery of an analog signal over the entire distance between the originating and terminating locations involved. Where such existing facilities can not deliver an analog signal over the distance required, the Telephone Company may, at its option, elect to specially construct facilities subject to the provisions of 2.1.4 Provision of Services, and 5.1.3 Special Construction preceding or the customer may, at its option, elect to order an Advanced Video Service in Section 7.2.14 following which utilizes digital transmission between the originating and terminating locations involved.

(A) Channel Descriptions(1) Broadcast Video Service

A Broadcast Video channel is a channel with one-way transmission capability for a standard 525 line/60 field monochrome, or National Television Systems Committee color, video signal of broadcast quality and one or two associated 5 kHz or 15 kHz audio signal(s). These associated audio signal(s) may be either diplexed or provided as one or two separate channels. At the customer's option, up to four associated 15 kHz signals may be provided as separated channels.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.5 Video Service (Cont'd)(A) Channel Descriptions (Cont'd)(1) Broadcast Video Service (Cont'd)

The third and/or fourth audio signal(s) are optional and will be provided as Additional Separate Audio Signals as set forth in (D)(2) following. The bandwidth for a video channel is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 MHz. The provision and the bandwidth of the associated audio signal(s) is a function of the channel interface selected by the customer. Video channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

(2) Supertrunking Transport Video Service

Supertrunking Transport Video Service (SVS) is a channel with a bandwidth of up to 750 MHz providing one-way transmission of multiple Amplitude Modulation (AM) standard 525 line/60 field monochrome or National Television Services Committee (NTSC) color video signals and monaural or Broadcast Television Systems Committee (BTSC) stereo audio signals over fiber optic facilities. SVS channels are provided over fiber optic facilities between two customer designated premises or between a customer designated premises and a Telephone Company Hub.

The signal performance and quality of the video channel may be degraded by the number of signals and the end to end distance of the channel. The Telephone Company will work cooperatively with the customer to determine the number of video signals which can be provided over a single SVS channel.

The Technical specifications are delineated in Technical Publications SR-INS-001532, Issue No. 1; SR-NPL-001434, Issue No. 1 and SR-NWT-001851, Issue No. 1.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.5 Video Service (Cont'd)(A) Channel Descriptions (Cont'd)(2) Supertrunking Transport Video Service (Cont'd)

For two-point service configurations, a single channel termination at each customer designated premises transmits or receives all of the video signals transported over the SVS channel. For multipoint service configurations, each video signal is provided over a Transmit only channel termination at one of the designated premises involved and a Receive only channel termination at each of the other designated premises involved. A Transmit channel termination provides an electrical to optical conversion of the customer's video signals allowing the customer to transmit, or originate, AM signals for transport over the SVS channel to one or more Receive channel terminations. A Receive channel termination provides an optical to electrical conversion allowing the customer to receive the multiple amplitude modulation signals.

At the option of the customer, SVS channels may be provided under a Service Discount Plan as specified in 7.4.10 following.

SVS channels may be moved in accordance with the regulations set forth in 7.4.5(B) and 7.4.10(C)(5) following.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.5 Video Service (Cont'd)(A) Channel Descriptions (Cont'd)(3) Fiber Based Multichannel Video Service (MVS)

Fiber Based Multichannel Video Service provides one-way Frequency Modulation (FM) transmission of one to sixteen standard 525 line/60 field monochrome or National Television Systems Committee (NTSC) color, video signals of less than broadcast quality over a single video channel. The bandwidth for each video signal is 6 MHz. One audio signal is provided with each video signal. The customer may order up to three Additional Separate Audio Signals or may elect to replace the original audio signal with one BTSC Stereo Audio Signal. Audio signal options are specified in 7.2.5(D) following.

At the option of the customer, MVS may be provided under a Service Discount Plan as specified in 7.4.10 following.

MVS channels are provided over fiber optic facilities for one-way transmission between customer designated premises or between a customer designated premises and a Telephone Company Hub. MVS is subject to the availability of suitable transmission facilities between the customer designated premises or Hubs involved. The Telephone Company will determine if such transmission facilities are available, or can be made available, and advise the customer of the facility status.

The signal performance and quality of the video channel may be degraded by the number of video signals, audio options and the end to end distance of the channel. The technical specifications are delineated in Technical Reference NTR-74410, Issue No. 1.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.5 Video Service (Cont'd)(A) Channel Descriptions (Cont'd)(3) Fiber Based Multichannel Video Service (MVS) (Cont'd)

MVS channels are one-way only. For two-point service configurations, each video signal is provided over a Transmit only channel termination at one of the designated premises involved and a Receive only channel termination at the other designated premises involved. For multipoint service configurations, each video signal is provided over a Transmit only channel termination at one of the designated premises involved and a Receive only channel termination at each of the other designated premises involved. Each customer designated premises must have at least one Transmit only and one Receive only channel termination, unless service is ordered with the One-way Transport optional feature. The One-way Transport optional feature enables a customer designated premises to have either Transmit only channel termination(s) or Receive only channel termination(s), but not both. When service is provided without the One-way Transport option, separate MSV channels are required for the Transmit only and Receive only channel terminations at each customer designated premises.

(a) Transmit Channel Termination

The Transmit channel termination (USOC TU9TF, TU9TE) allows a customer to transmit, or originate, one video signal for transport over the video channel to one or more Receive channel terminations. For each two-point or multipoint video channel, Transmit channel terminations may be provided at one point of termination only.

(b) Receive Channel Termination

The Receive channel termination (USOC TU9RF, TU9RE) allows a customer to receive an incoming video signal as originated over a Transmit channel termination.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.5 Video Service (Cont'd)(B) Technical Specifications Packages

<u>Parameter</u>	<u>C*</u>	<u>Package TV-</u>	
		<u>1</u>	<u>2</u>
Amplitude vs. Frequency Response	X		
Chrominance/Luminance Inequalities			
Gain	X	X	X
Delay	X	X	X
Chrominance/Luminance Intermodulation	X		
Chrominance Nonlinear Gain	X		
Chrominance Nonlinear Phase	X		
Crosstalk	X		X
Differential Gain	X	X	X
Differential Phase	X	X	X
Dynamic Gain (picture and sync signal)	X		
Field-Time Distortion	X	X	X
Gain/Frequency Distortion	X	X	X
Gain Stability	X	X	X
Insertion Gain	X	X	X
Line-Time Distortion	X	X	X
Long-Time Distortion	X	X	X
Luminance Nonlinearity	X		
Luminance Signal/CCIR			
Weighted Noise	X	X	X
Short-Time Distortion			
2 T Pulse	X	X	X
T - Bar Ringing	X	X	X

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.5 Video Service (Cont'd)(B) Technical Specifications Packages (Cont'd)

<u>Parameter</u>	<u>C*</u>	<u>Package TV-</u>	
		<u>1</u>	<u>2</u>
Signal/15 kHz Flat Weighted Noise	X	X	X
Signal/Low Frequency Noise	X		
Stereo Gain Difference	X	X	
Stereo Phase Difference	X	X	
Total Harmonic Distortion	X	X	X
Transient Sync Signal Nonlinearity	X		
Video/Audio Delay Difference	X		

The technical specifications are delineated in Technical Reference TR-TSV-000338, Issue No. 2 and NTR-74410, Issue No.1.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.5 Video Service (Cont'd)(C) Channel Interfaces

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

<u>CI</u>	<u>Description</u>
2TV6-1	Combined video and one diplexed audio signal
2TV6-2	Combined video and two diplexed audio signals
2TV7-1	Combined video and one diplexed audio signal
2TV7-2	Combined video and two diplexed audio signals
4TV6-5	Video and one 5 kHz audio signal
4TV6-15	Video and one 15 kHz audio signal
4TV6-15A	Video and one 15 kHz audio signal
4TV6-17	Video and one composite BTSC stereo audio signal
4TV7-5	Video and one 5 kHz audio signal
4TV7-15	Video and one 15 kHz audio signal
4TV7-15A	Video and one 15 kHz audio signal
4TV7-17	Video and one composite BTSC stereo audio signal
6TV6-5	Video and two 5 kHz audio signal
6TV6-15	Video and two 15 kHz audio signals
6TV6-15A	Video and two 15 kHz audio signals
6TV7-5	Video and two 5 kHz audio signal
6TV7-15	Video and two 15 kHz audio signals
6TV7-15A	Video and two 15 kHz audio signals
8TV6-15A	Video and three 15 kHz audio signals
8TV7-15A	Video and three 15 kHz audio signals
10TV6-15A	Video and four 15 kHz audio signals
10TV7-15A	Video and four 15 kHz audio signals

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

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.5 Video Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)(1) Video Bridging (USOC BCNVD)

Video Bridging enables Video Service to be provided in a multipoint configuration. The Video Bridging optional feature is not available for Part-time Broadcast Video Services.

(2) Additional Separate Audio Signals (USOC VAKS2, VAKS3, VAKS4)

Separate Audio Signals deliver individual audio baseband inputs as discrete audio signals. Up to two Additional Separate Audio Signals may be provided with a Broadcast Video Service which does not utilize microwave transmission facilities. Up to three Additional Separate Audio Signals may be provided for each video signal on a MVS channel. The audio signals associated with a single video signal on a MVS channel may not include a mix of Additional Separate Audio Signals and a BTSC Stereo Audio Signal.

(3) BTSC Stereo Audio Signal\* (USOC VAKBX)

A BTSC (Broadcast Television Systems Committee) Stereo Audio Signal is an audio signal of stereo quality. One BTSC Stereo Audio Signal may be provided for each video signal on a MVS channel. The audio signals associated with a single video signal may not include a mix of Additional Separate Audio Signals and a BTSC Stereo Audio Signal.

(4) Rf Subcarrier Transport \* (USOC R9D1X, R9DAX)

The Rf Subcarrier Transport option partitions the fiber optic facilities and MVS video terminating equipment to enable analog transmission capability of up to T1 capacity in addition to the video signals. A maximum of four Rf Subcarrier Transport options may be associated with a single MVS channel.

(5) One-way Transport\* (USOC VTO)

The One-way Transport option enables a customer designated premises to be equipped with a single MVS channel which is capable of either transmitting or receiving video and audio signals. Transmit only and Receive only channel terminations will not be provided at the same customer designated premises if the One-way Transport option is elected

\* Available with Fiber Based Multichannel Video Service only.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.6 Wideband Analog Service(A) Basic Channel Description

A Wideband Analog channel\* is a channel with a bandwidth measured in kHz for the transmission of a wideband signal. The actual bandwidth is a function of the channel interface selected by the customer. Wideband Analog channels are provided between customer designated premises.

(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package WA-</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Amplitude Stability	X	X		
Background Noise	X	X	X	X
Frequency Shift	X	X		
Gain/Frequency				
Characteristics of:				
- Group Connections	X		X	X
- Supergroup Connections		X		
Impulse Noise	X	X		
Net Loss Variations	X	X	X	X
Pilot Slot	X	X		
Spurious Single				
Frequency Tone	X	X		

The technical specifications are delineated in Technical Reference TR-NPL-000339.

\* New England Telephone only.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.6 Wideband Analog Service (Cont'd)(C) Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Wideband Analog channel:

<u>CI</u>	<u>Bandwidth</u>
AH-B	60 kHz to 108 kHz (Group)
AH-C	312 kHz to 552 kHz (Supergroup)
WD-1	300 Hz to 18 kHz
WD-2	28 kHz to 44 kHz
WD-3	29 kHz to 44 kHz

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

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(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.7 Wideband Data Service(A) Basic Channel Description

The Wideband Data channel is an analog channel for the transmission of synchronous serial data at the rate of 19.2, 50.0, or 230.4 kbps or of asynchronous serial data at rates of up to 19.2, 50.0, or 230.4 kbps. Optional arrangements are available for transmission of synchronous serial data at 18.75 or 40.8 kbps. The actual bit rate is a function of the channel interface selected by the customer. This service requires a 303 Data Station(s). The 303 Data Station provides coupling between the customer's equipment and the wideband data transmission medium. A voiceband coordinating channel is also provided. Wideband Data channels are provided between customer designated premises.

(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package WD-</u>		
	<u>1</u>	<u>2</u>	<u>3</u>
Error-Free Seconds	X	X	X

While in service, the monthly average of error-free seconds will be equal to or greater than 98.75%.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.7 Wideband Data Service (Cont'd)(C) Channel Interfaces

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

<u>CI</u>	<u>Bit Rate</u>
WB-18S	18.75 kbps, synchronous
WB-19A	Up to 19.2 kbps, asynchronous
WB-19S	19.2 kbps, synchronous
WB-23A	Up to 230.4 kbps, asynchronous
WB-23S	230.4 kbps, synchronous
WB-40S	40.8 kbps, synchronous
WB-50A	Up to 50.0 kbps, asynchronous
WB-50S	50.0 kbps, synchronous

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

(D) Optional Features and Functions(1) Key Activated Transfer Arrangement

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

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.7 Wideband Data Service (Cont'd)(D) Optional Features and Functions (Cont'd)

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

	Available with Technical Specifications Package WD-		
	<u>1</u>	<u>2</u>	<u>3</u>
Key Activated Transfer Arrangement	X	X	X

7.2.8 Digital Data Service(A) Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, or 56.0 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are only available via Telephone Company designated Hubs and are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Digital Data Service (Cont'd)(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package DA-</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Error-Free Seconds	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 Technical Reference PUB 62310.

Voltages which are compatible with Digital Data Service are delineated in Technical Reference TR-NPL-000341.

(C) Channel Interfaces

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

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

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

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Digital Data Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)(1) Central Office Bridging Capability BSE(2) Transfer Arrangement BSE

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a channel of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer designated premises. This arrangement is only available at a Telephone Company designated Hub. A key activated or dial up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

(3) Secondary Channel Capability (SCC) BSE

Channel conditioning, provided from suitably equipped Hubs, that permits a 56 kbps channel to be used with a compatible customer-provided Data Service Unit which can derive a lower speed secondary channel at a synchronous rate of 2.666 kbps as described in Technical Reference TR-NPL-000157. The secondary channel operates in parallel with the primary 56 kbps channel and can provide simultaneous two-way transmission. 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 DDS 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 56 kbps channel.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Digital Data 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.

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

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service(A) Basic Channel Description

A High Capacity channel is a digital channel for the transmission of nominal 64.0 kbps\*, 1.544 Mbps (SUPERPATH<sup>R</sup> 1.544 Mbps digital service), 3.152 Mbps\*\* or 44.736 Mbps (SUPERPATH<sup>R</sup> 45 Mbps digital service) isochronous serial data. The actual bit rate and framing formats are a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises, between a customer designated premises and a Telephone Company Hub or between a customer designated premises, Telephone Company multiplexing Hub or Telephone Company Frame Relay Service Hub and an Expanded Interconnection multiplexing node or virtual collocation arrangement\*\*\*.

In addition, High Capacity channels may be connected to NYNEX Enterprise Services as specified in 7.2.13 following,

IntelliLight® Dedicated SONET Ring service as set forth in 7.2.17 (C)

or Section 26.1.1 following or IntelliLight® Entrance Facility (C)  
(DS3 High Capacity Service only) with a DS3 interface as set forth in Section 26.1.4 following.

The High Capacity 44.736 Mbps Service is provided on digital optical equipment and lightwave facilities selected by the Telephone Company, and it is provided only through serving wire centers equipped to furnish such service. At the customer designated premises, an optical fiber interface and digital optical equipment convert the signal from optical to electrical. A 110 volt AC, 15 amperes, separately fused, non-switched controlled, single power outlet must be provided by the customer at the customer designated premises.

\* Available only as a channel of a 1.544 Mbps facility between two Telephone Company digital Hubs or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 kbps channels of two 1.544 Mbps facilities at a digital Hub(s). The customer must provide system and channel assignment data. Digital Hubs include both Digital Data Hubs and High Capacity Multiplexing Hubs.

\*\* New England Telephone Only.

\*\*\* Expanded Interconnection is not available with 3.152 Mbps or 44.736 Mbps High Capacity Service provided with an optical fiber interface.

(TR 1293)

Issued: June 1, 2000

Effective: June 16, 2000

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

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(A) Basic Channel Description (Cont'd)Optical Fiber Interface Option

At the option of the customer, 44.736 Mbps (DS3) Service may be provided with an optical interface at four levels of capacity, (i.e., as three (135 Mbps), nine (405 Mbps)\*, twelve (560 Mbps) or 48 (2.488 Gbps) groups of 44.736 Mbps channels. The customer may order a minimum of 1 and a maximum of 3 DS3 channels for the 135 Mbps capacity; a minimum of 2 and a maximum of 9 DS3 channels for the 405 Mbps capacity; a minimum of 2 and a maximum of 12 DS3 channels for the 560 Mbps capacity; or a minimum of 7 and a maximum of 48 DS3 channels for the 2.488 Gbps capacity. This service may be provided between a customer designated premises and a Telephone Company Hub subject to the availability of facilities under the following two options.

\* New York Telephone only.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(A) Basic Channel Description (Cont'd)Optical Fiber Interface Option (Cont'd)(1) Option 1

An optical channel from a Telephone Company Serving Wire Center equipped to furnish such service to an optical fiber interface at the customer's premises. The customer will provide Optical Line Terminating Multiplexing (OLTM) or SONET equipment in lieu of Telephone Company provided digital optical equipment.

(2) Option 2

The customer's optical cable is spliced to the Telephone Company's optical cable at a Telephone Company designated fiber meet point, or the customer shall make available at the meet point an additional length of fiber optic cable for the purpose of connecting the fiber optic cable to the Telephone Company's central office. The latter option of providing an additional length of fiber optic cable shall be available to the customer only where facilities permit. The location of the fiber meet point is considered to be a customer designated premises for purposes of administering regulations and rates contained in this tariff. The customer provides the OLTM at the customer designated premises. The Telephone Company will work cooperatively with the customer to select the Telephone Company designated fiber meet point which may be associated with the normal serving wire center or, at the customer's option, the fiber meet point may be at a location associated with an alternate serving wire center. In the latter case, interoffice channel mileage will be calculated from the alternate serving wire center.

(C)

(TR 1213)

Issued: November 17, 1999

Effective: December 2, 1999

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

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(A) Basic Channel Description (Cont'd)Optical Fiber Interface Option (Cont'd)(2) Option 2 (Cont'd)

Under Option 2, the customer's fiber for the midspan meet must be compatible with the fiber employed by the Telephone Company. The Telephone Company will perform the splice at a charge as specified in 31.7.9(E) following. Responsibility for maintenance, repair and disconnection of the splice shall be with the Telephone Company.

When an additional length of fiber optic cable is made available by a customer at the meet point location, the Telephone Company shall designate the length of the additional fiber optic cable and shall complete the installation of the fiber optic cable to the central office. All rights, title and interest in the additional length of fiber optic cable shall be transferred, free of any and all liens and encumbrances, by the customer to the Telephone Company for \$1.00, the receipt and sufficiency of which is hereby acknowledged by the customer. The Telephone Company shall clearly mark the fiber optic cable at the meet point location so as to designate where the customer provided portion of the cable ends and where the Telephone Company cable begins. The transfer shall be deemed to have taken place as of the time the Telephone Company assumes physical control of the additional length of fiber optic cable to begin connection of that cable to the Telephone Company's central office.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(A) Basic Channel Description (Cont'd)Optical Fiber Interface Option (Cont'd)

Within each capacity level, individual 44.736 Mbps channels may be derived from OLTM equipment at the Telephone Company's Hub. The customer may request that the OLTM be located in a wire center other than the normal serving wire center. The appropriate Channel Mileage rate will apply between the normal serving wire center and the wire center designated by the customer. The customer-provided OLTM must be compatible with the OLTM equipment employed by the Telephone Company as listed below. The customer may also employ any device that supports an OC3, OC12 or OC48 interface as described in GR-253-CORE, Issue 2 for Synchronous Optical Network (SONET) Transport Systems. The Telephone Company employs the following OLTM equipment:

(C)(x)

New England Telephone (NET)

- NEC Model 1840A for 135 Mbps capacity
- Rockwell Model 1565D for 560 Mbps capacity

New York Telephone (NYT)

- NEC Model 1840A or Rockwell Model 3X50 for 135 Mbps Capacity
- AT&T Model FT Series G for 405 Mbps capacity
- NEC Model 31201A or Rockwell Model 1565D for 560 Mbps capacity

The selection of the OLTM will determine the characteristics of the standard interface. The Telephone Company may request cooperative testing through the customer provided equipment (e.g., fiber, OLTM, etc.) at the time of installation or in the event of a transmission failure.

(x) Issued under authority of Special Permission No. 99-140 of the Federal Communications Commission to replace technical publication GR-253-CORE, Issue 1 with GR-253-CORE, Issue 2.

(TR 1180)

Issued: August 6, 1999

Effective: August 21, 1999

Vice President  
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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(B) Technical Specifications Packages

<u>Parameters</u>	<u>Package HC-</u>			
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>3</u>
Error-Free Seconds		X		
Bit Error Rate				X
Error-Free Transmission				X

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical References PUB 62411 and TR-NPL-000054.

A Channel with technical specifications package HC3 is designed to provide an average performance of at least 99% error-free transmission measured over a continuous 24 hour period at the Company interface. The Technical Specifications are delineated in GR-342, Issue 1.

(C) (x)

The technical specifications for High Capacity Service provided to an Expanded Interconnection multiplexing node are delineated in the Technical Reference Publications specified in Section 28.1.5 and 28.4.5 following.

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

(TR 1332)

Issued: September 25, 2000

Effective: September 26, 2000

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

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(C) Channel Interface

The following channel interfaces (CIs) define the bit rates that are available for a High Capacity and/or NYNEX Enterprise SONET Access Services channel:

<u>CI</u>	<u>Bit Rate</u>	
CS-15*	1.544 Mbps (DS1)	
DU-1KN#, 1SN#, BN# or KN#	1.544 Mbps (DS1)	
DS-1S, 1K#, 1KN# or BN#	1.544 Mbps (DS1)	
DS-15*	1.544 Mbps (DS1)	
DS-31	3.152 Mbps (DS1C)	
DS-44, 44A, 44C#, 44G# or 44I	44.736 Mbps (DS3)	(C)
FC-13	135 Mbps - Optical	
FC-40 or 45#	405 Mbps - Optical	
FC-54	560 Mbps - Optical	
SO-A**,C**,E**, OR F**	155.520 Mbps - Optical (SONET)	
SO-A**,B**,C**,D**,E**, OR F**	622.080 Mbps and 2.488 Gbps - Optical (SONET)	
ST-A	51.840 Mbps (STS-1)	

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

\* A 64.0 kbps channel is available as a channel(s) of a 1.544 Mbps facility to a Telephone Company Hub.

\*\* B OR U

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

(TR 1332)

Issued: September 25, 2000

Effective: September 26, 2000

Vice President  
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## 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)(1) Automatic Loop Transfer BSE

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer designated premises. The equipment at the customer's designated premises must be compatible with that provided by the Telephone Company in the serving wire center. The customer is responsible for providing the equipment at its premises. This option is not available for channels with the Clear Channel Capability feature.

(2) Transfer Arrangement BSE

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

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

Vice President  
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## 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)(3) Central Office Multiplexing

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 identifies the serving wire centers where the following Central Office Multiplexing BSEs or options are available.

(a) DS3 to DS1 BSE

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

(b) DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

(c) DS1 to Voice (New England Telephone) BSE

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS1 to the Hub can also be used for a Digital Data Service, DIGIPATH digital service II, DOVPATH service, Program Audio or Metallic Service.

(d) DS1 to Voice (New York Telephone) BSE

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS1 to the HUB can also be used for a Digital Data, Program Audio or Metallic Service.

or

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Service, DIGIPATH digital service II\* and DOVPATH service.

- \* When a 1.544 Mbps channel is converted to 24 channels for use with DIGIPATH digital service II and the DIGIPATH digital service II channels are provided in conjunction with Network Reconfiguration Service as specified in Section 19. Following, DS1 to Voice central office multiplexing may be provided in all serving wire centers.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)  
(Cont'd)(3) Central Office Multiplexing (Cont'd)(e) DS1 to DSO BSE

An arrangement that converts a 1.544 Mbps channel to 24 64.0 kbps channels using digital time division multiplexing.

(f) DSO to Subrate BSE

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps, or five 9.6 kbps channels using digital time division multiplexing. This arrangement is available with Digital Data Service only.

(4) Clear Channel Capability (CCC)

CCC provides a Bipolar with Eight Zero Substitution (B8ZS) encoding technique that allows a customer to transport 1.536 Mbps information rate signals over a 1.544 Mbps High Capacity Channel with no constraint on the quantity or sequence of ones (mark) and zero (space) bits. This arrangement allows customers to derive 64 kbps clear channels. This service is provided only on 1.544 Mbps High Capacity Channels between two customer designated premises and is subject to availability of facilities. This arrangement requires the customer-provided multiplexing equipment to be compatible with the B8ZS line code as specified in Technical Reference TR-NPL-000054 and GR-342, Issue 1.

(C)(x)

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

(TR 1332)

Issued: September 25, 2000

Effective: September 26, 2000

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



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)  
(Cont'd)(5) Alternate Serving Wire Center

An optional feature in which High Capacity Channel Terminations are provided over an alternate route to a serving wire center other than that normally serving the customer's designated premises. The Telephone Company will designate the serving wire center to be used. The mileage used to determine the monthly rate for channel mileage is based on the normal serving wire center associated with the customer designated premises as described in 7.1.2 preceding. This feature may also be used in conjunction with DS3 services provided over IntelliLight® Entrance Facility (IEF) service as set forth in Section 26.1.4 following. This feature is not available with Shared Use Digital High Capacity Services or 44.736 Mbps High Capacity Service with the Optical Fiber Interface Option provided under Option 2. (C)

When a customer orders the Alternate Serving Wire Center Optional Feature, the Alternate Serving Wire Center Rate as specified in 31.7.9(C)(5) following applies in addition to the Channel Termination and Channel Mileage Rates and Charges for each applicable High Capacity Service.

(TR 1213)

Issued: November 17, 1999

Effective: December 2, 1999

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

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

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

(5) Alternate Serving Wire Center (Cont'd)

The rates for Alternate Serving Wire Center apply per point of termination.

Subject to the provisions of 2.1.4, Provision of Services, and 5.1.3, Special Construction preceding, Alternate Serving Wire Center will be provided within one year from receiving a customer request in any New York Telephone exchange and in the following New England Telephone exchanges:

Boston, MA  
Cambridge, MA  
Waltham, MA  
Portland, ME  
Nashua, NH  
Manchester, NH  
Providence, RI  
Burlington, VT

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (Cont'd)(5) Alternate Serving Wire Center (Cont'd)

In all other exchanges, in New England Telephone, the provisioning interval is within two years. In the case of special construction, the provisioning intervals are within one or two years, as specified preceding, from the date the special construction agreement is signed by the customer.

In New York Telephone, a Volume Discount Plan is available with Alternate Serving Wire Center Channel Terminations for 1.544 Mbps and 44.736 Mbps High Capacity Service. The Volume Discount Plan is based on the number of channel terminations at each specific customer's building location. When a customer increases the number of channels with the Alternative Serving Wire Center feature the rate for the Alternate Serving Wire Center feature will decrease as specified in 31.7.9(C)(4) and (5) following.

(TR 1126)

Issued: April 19, 1999

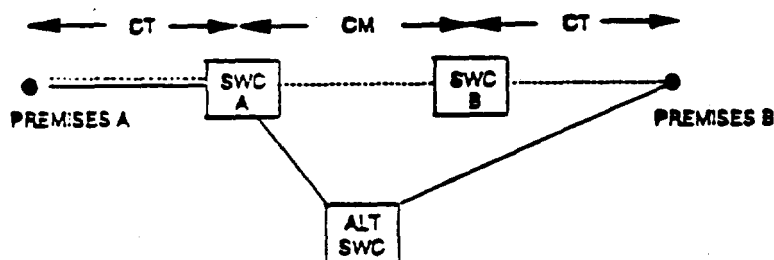
Effective: May 4, 1999

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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)7.2.9 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Alternate Serving Wire Center (Cont'd)

Example: High Capacity Service connecting two customer designated premises with the Alternate Serving Wire Center Optional Feature at Premises B.



---- Billed Route for High Capacity Service  
 ---- Physical Route for High Capacity Service  
 CT - Channel Termination\*  
 CM - Channel Mileage\*  
 SWC - Serving Wire Center  
 ALT SWC - Alternative Serving Wire Center\*\*

## Applicable Rate Elements Are:

- Channel Termination (2 applicable)
- Channel Mileage (1 section)
- Alternate Serving Wire Center Optional feature (1 applicable)

\* The Channel Mileage and Channel Termination Rates are calculated as if the service were physically routed through the normal serving wire center.

\*\* The Alternate Serving Wire Center Optional Feature Rate applies in addition to the Channel Mileage and Channel Termination Rates.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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## 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)(6) 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 Customer's multiplexed High Capacity Service in Telephone Company serving wire centers designated as Hubs capable of multiplexing High Capacity services, with the Telephone Company maintaining separate records and billing for each. The Telephone Company will split the billing after the multiplexer for each service connected to the High Capacity multiplexer.

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, Special Access Services or an IBT Service to a Host Customer's

(T)  
(C)

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.

Each customer will be billed for those rate elements associated with its own portion of the service configuration. For ThruPath Service connections, the Service User (i.e., the ordering customer) will be billed for the channel between the two multiplexers of the High Capacity Services. Under no circumstances will the rates or charges for individual rate elements be split. This arrangement is only available when (1) a 44.736 Mbps High Capacity Service is multiplexed to a 1.544 Mbps High Capacity Service; or (2) a 1.544 Mbps High Capacity Service is multiplexed to a Voice Grade or DDS II\* service or a combination of Voice Grade and DDS II services; (3) a Switched Access or Common Channel Signaling Access Service is provided over a High Capacity or SONET facility under 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.

\* DDS II and 1.544 Mbps High Capacity Service Hubs must be located in the same building.

(TR 1294)

Issued: June 1, 2000

Effective: June 16, 2000

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

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)  
(Cont'd)(6) Shared Billing Arrangement (Cont'd) (Z)

Each customer may order its individual portion of the multiplexed service separately from the Telephone Company. A ThruPath Service connection may only be ordered by the Service User. The ordering customer(s) must obtain and provide a copy of a signed letter(s) of authorization, as described in 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 applicable Connecting Facility Assignments and Billing Account Numbers of the customers involved. (M)

Regulations on this page formerly appeared on 1<sup>st</sup> Revised Page 7-78.

(TR 1225)

Issued: December 1, 1999

Effective: December 16, 1999

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

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(D) Optional Features and Functions/Basic Service Elements (BSEs)  
(Cont'd)(6) Shared Billing Arrangement

Each customer will be billed the applicable tariff rates and charges set forth in Section 31. following for its individual service(s). Except for ThruPath Service connections, the rates and charges for Central Office Multiplexing will be the responsibility of the Host Customer. For ThruPath Service connections, both the Host Customer and the Service User will be responsible for the rates and charges associated with their own Central Office Multiplexing arrangement.

Each customer shall be responsible for reporting service outages for its portion of the multiplexed 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 multiplexed service(s) of the Service User(s). For ThruPath Service connections, the Telephone Company may also share with the Service User record information pertaining to the multiplexed service(s) of the Host Customer(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 multiplexed High Capacity or IntelliLight® Dedicated SONET Ring with an existing Service Discount Plan or Commitment Discount Plan\*. The regulations pertaining to such requests are set forth in Section 7.4.10 following for the Service Discount Plan or Section 25.1 following for the Commitment Discount Plan. (C)  
(C)

Section 7.4.11 contains rate regulations specific to Shared Billing Arrangement.

\* IntelliLight® Dedicated SONET Ring is not provided under a Commitment Plan. (C)  
(C)

(TR 1146)

Issued: June 14, 1999

Effective: June 29, 1999

Vice President  
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## 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)(7) Enhanced Access Diversity (EAD)

EAD provides three levels of diversity on the transmission facilities for two or more 1.544 Mbps and 44.736 Mbps services provided over not more than two different physical routes. The customers with EAD will be advised on a quarterly basis of the design of each service with EAD. This offering utilizes existing physically diverse facilities. Should facilities not be available, the service may be subject to special construction as specified in 5.1.3 preceding. The levels are described following.

Supreme

This optional feature is only available for services with the ASWC feature and guarantees diversity of the interoffice facilities and central offices between the first manholes located outside the alternate serving wire centers.

When a customer orders the Supreme EAD Optional Feature, the Supreme Rate as specified in 31.7.9(C)(7) following applies in addition to the Channel Termination, Channel Mileage and ASWC Rates and Charges for each applicable High Capacity Service.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

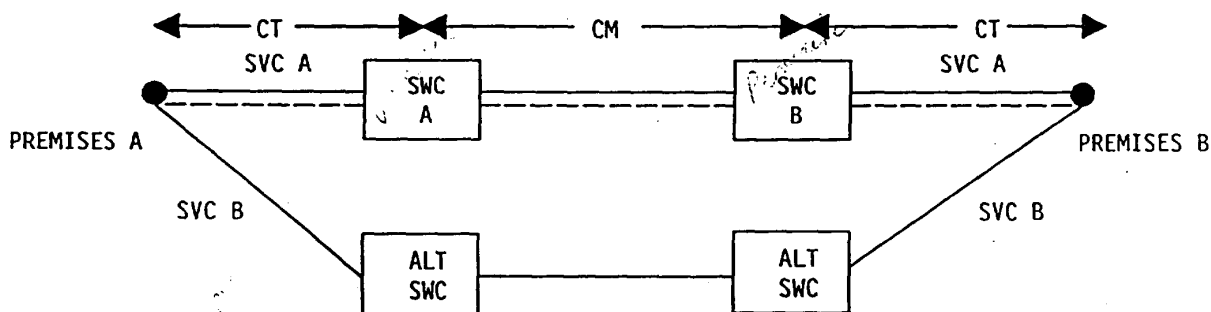
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## ACCESS SERVICE

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)(7) Enhanced Access Diversity (EAD) (Cont'd)Supreme (Cont'd)

Example: High Capacity Service connecting two customer Designated premises with the Supreme EAD and ASWC Optional Features.



—— Billed Route for both High Capacity Services  
 - - - - Physical Routes for High Capacity Services A and B  
 CT - Channel Termination\*  
 CM - Channel Mileage\*  
 SWC - Serving Wire Center  
 ALT SWC - Alternate Serving Wire Center

## Applicable Rate Elements Are:

- Channel Termination (4 applicable)
- Channel Mileage (2 sections)
- Supreme EAD Optional Feature for Service B (1 applicable)\*\*
- ASWC Optional Feature for Service B (2 applicable)\*\*

\* The Channel Mileage and Channel Termination Rates are calculated as if the service were routed through the normal serving wire center.

\*\* The Supreme EAD and ASWC Optional Feature Rates for Service B apply in addition to the Channel Termination and Channel Mileage Rates.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

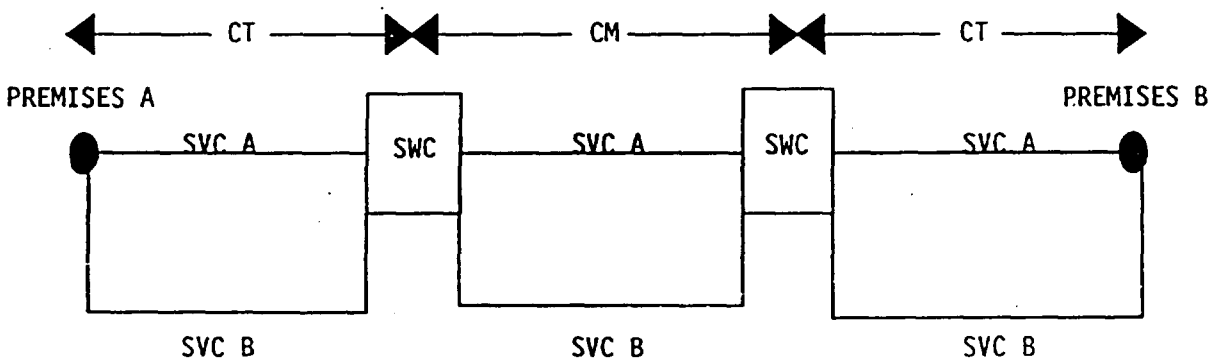
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## ACCESS SERVICE

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)(7) Enhanced Access Diversity (EAD) (Cont'd)Deluxe

This optional feature for 1.544 Mbps and 44.736 Mbps Services provides for diverse routing of the Channel Terminations and Channel Mileage facilities for two or more services provided over not more than two different physical routes. This offering utilizes existing physically diverse facilities between the first manholes located outside the wire centers, or from the point of termination to the first manhole outside a customer premises. Should facilities not be available, the service may be subject to special construction as specified in 5.1.3 preceding.

Example: High Capacity Service connecting two customer designated premises with the Deluxe EAD Optional Feature.



CT - Channel Termination  
CM - Channel Mileage  
SWC - Serving Wire Center

Applicable Rate Elements Are:

- Channel Termination (4 applicable)
- Channel Mileage (2 applicable)
- Deluxe EAD Optional Feature (1 applicable)\*

\* The Deluxe EAD Optional Feature Rate for Service B applies in addition to the Channel Mileage and Channel Termination Rates.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

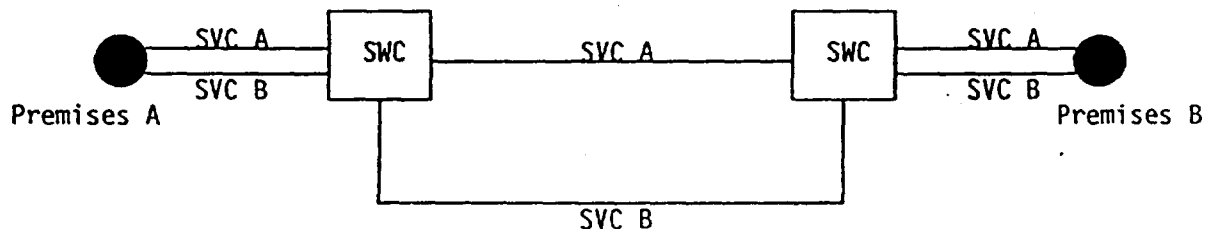
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## ACCESS SERVICE

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)(7) Enhanced Access Diversity (EAD) (Cont'd)Basic

This optional feature for 1.544 Mbps and 44.736 Mbps Services provides for diverse routing of the Channel Mileage facility for two or more services provided over not more than two different physical routes. This offering utilizes existing physically diverse facilities between the first manholes located outside the wire centers. Should facilities not be available, the service may be subject to special construction as specified in 5.1.3 preceding.

Example: High Capacity Service connecting two customer designated premises with the Basic EAD Optional Feature.



CT - Channel Termination  
CM - Channel Mileage  
SWC - Serving Wire Center

## Applicable Rate Elements Are:

- Channel Termination (4 applicable)
- Channel Mileage (2 applicable)
- Basic EAD Optional Feature for Service B (1 applicable)\*

\* The Basic EAD Optional Feature Rate for Service B applies in addition to the Channel Mileage and Channel Termination Rates.

(TR 1126)

Issued: April 19, 1999

Effective: May 4, 1999

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