

ACCESS SERVICE

7. Special Access Service

7.1 General

Special Access Service provides a transmission path to connect customer designated premises*, either directly or through a Telephone Company Hub where bridging or multiplexing functions are performed, or to connect a customer designated premises and a WATS Serving Office. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

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

The provision of Special Access in all situations is dependent upon the availability of Telephone Company plant and equipment.

The rates and charges in this section apply to all special access customers served by the Telephone Company, except for customers in the pricing flexibility Metropolitan Statistical Areas (MSAs) listed in Section 22.3 following. The rates and charges for special access customers in the pricing flexibility MSAs are set forth in Section 22.5 following.

(N)
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(N)

* Telephone Company Centrex CO-like switches are considered to be customer premises for purposes of this tariff.

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

There are eight types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

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

The Customer can order a basic channel and select from a list of available transmission parameters, interface combinations, and optional features to design a channel which meets the Customer's specific communications needs.

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

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

Following is a brief description of each type of channel:

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

Program Audio - A channel for the transmission of audio signals. The nominal frequency bandwidths are from 300 Hz to 2500 Hz, from 200 to 3500 Hz, from 100 to 5000 Hz, from 50 to 8000 Hz, or from 50 to 15000 Hz.

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

Digital Data - A channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6, 19.2, 56.0 or 64.0 kbps.

High Capacity - A channel for the transmission of isochronous serial digital data at rates of 1.544 or 44.736 mbps.

Shared SONET Ring - A SONET-based shared ring with bandwidth capacities of 1.544 Mbps (DS1) and 44.736 Mbps (DS3).

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

Gateway SONET Ring - A SONET-based dedicated ring with bandwidth capacities of 622.08 Mbps (OC12) and 2488.32 Mbps (OC48).

OptiPoint - A point-to-point channel providing high speed synchronous optical fiber-based full duplex data transmission capabilities at rates of 155.52 Mbps (OC3), 622.08 Mbps (OC12), or 2488.32 Mbps (OC48).

Sprint SONET Ring Servicesm - A dedicated high capacity network designed to provide the customer reliable functionality for the transmission of voice, data and video via a self-healing ring topology between multiple customer designated locations and Telephone Company central offices.

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

The customer also has the option of ordering digital high capacity facilities (e.g., 1.544 and 44.736 Mbps) to a Telephone Company Hub for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the Hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in 7.2 following. Descriptions of the optional features and functions available are also set forth in 7.2 following.

For example, a customer may order a 1.544 Mbps facility from a customer designated premises to a Telephone Company Hub. The 1.544 Mbps facility may be multiplexed at the same or a different Hub to Voice Grade channels or may be extended to other customer designated premises. Optional features may be added to either the 1.544 Mbps or the Voice Grade Channels.

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

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

- Channel Terminations (described in 7.1.2(A) following)
- Channel Mileage (described in 7.1.2(B) following)
- Optional Features and Functions (described in 7.1.2 (C) following)

(A) Channel Termination

The Channel Termination rate category provides for the communications path between a customer designated premises and the serving wire center or WATS Serving Office of that premises. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the point of termination (POT) and the type of signaling capability if any. The signaling capability itself is provided as a part of this rate category. One Channel Termination charge applies per customer designated premises at which the channel is terminated. Channel Termination charges for DS3 High Capacity Service may vary based on distance, as set forth in 7.5.8(A) following. Special Access Service used in connection with Switched Access service is provided as set forth in Section 6.1.1.

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

The Channel Mileage rate category provides for the end office equipment and the transmission channel between the serving wire centers associated with two Customer designated premises, between a serving wire center associated with a Customer designated premises and a Telephone Company hub, between two Telephone Company hubs or between a WATS Serving Office and a Customer serving wire center when the two are not co-located. Channel Mileage rates are made up of the Channel Mileage Facility rate and the Channel Mileage Termination rate. Channel Mileage charges are set forth in Section 7.5.

(1) Channel Mileage Facility

The Channel Mileage Facility rate recovers the cost for the transmission path which extends between the Telephone Company serving wire centers and/or hub(s) and includes primarily outside plant used to provide the facility.

(2) Channel Mileage Termination

The Channel Mileage Termination rate recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at serving wire centers and hubs). The Telephone Company applies a 50% billing percentage to the channel mileage fixed rate on jointly owned circuits, and applies 100% on wholly owned circuits. When the Channel Mileage Facility is zero (i.e., collocated serving wire centers), neither the Channel Mileage Facility rate nor the Channel Mileage Termination rate will apply.

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

Optional Features and Functions may be added to a Special Access service to improve its quality or utility to meet the Customer's specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combination of equipment. Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Conditioning
- Automatic Protection Switching
- Bridging
- NetPoint (ISDN PRI Functionality)

Descriptions for each of the available Optional Features and Functions are set forth in 7.2 following.

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7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations

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

(A) Two-Point Service

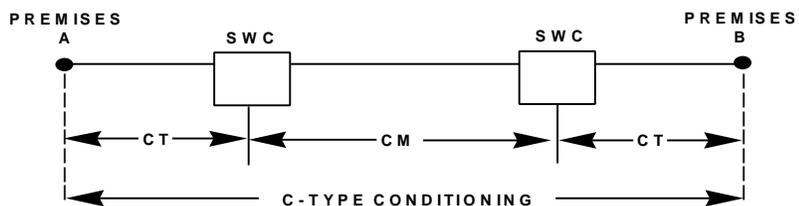
A two-point service connects two customer designated premises, either on a directly connected basis or through a Hub where multiplexing functions are performed, or a customer designated premises and a WATS Serving Office. All types of Special Access Service may be provided as two-point service.

Applicable rate elements are:

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

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

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



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

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

Applicable rate elements are:

- Channel Terminations (2 applicable)
- Channel Mileage (1 Termination and 15 Facility)
- C-Type Conditioning Optional Feature

(B) Multipoint Service

Multipoint service connects three or more customer designated premises through a Telephone Company Hub. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between Hubs (i.e., bridging locations). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the Service Descriptions set forth in 7.2 following.

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

When ordering, the customer will specify the desired bridging Hub(s) selected from the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. This tariff identifies the type(s) of bridging functions which are available and the serving wire centers at which they are available.

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7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

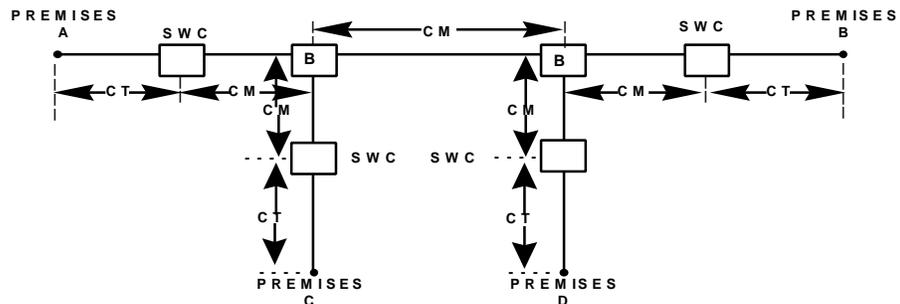
(B) Multipoint Service (Cont'd)

Applicable Rate Elements are:

- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable between each designated customer premises and the Hub, and between Hubs)
- Bridging
- Additional Optional Features (when applicable)

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

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



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

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

Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage (5 sections, Termination and Facility as appropriate)
- Bridging (6 applicable, i.e., each bridge port)

(C) Extension Service

Special Access Service utilized for connection with Feature Group A Switched Access Service is available with extensions, i.e., additional terminations of the service at different building(s) in the same or a different exchange. Feature Group A extensions within the same exchange are charged for under the Telephone Company's local and/or general exchange service tariffs. Feature Group A extensions in different exchanges and Voice Grade extensions in the same or different exchanges are charged for as Special Access Service. The rate elements which apply are: Voice Grade Channel Termination, Channel Mileage, if applicable, and Voice Bridging, if applicable. All appropriate monthly rates and nonrecurring charges set forth in 7.5.2 following will apply. Such extensions are ordered as set forth in 5.2 preceding.

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

Alternate use occurs when a Customer uses a service for different types of transmission at different times. The Customer may transfer from one type of operation to another at will. A Customer may use transmission services in any privately beneficial way but, where technical or engineering changes are required to effectuate an alternate use, charges set forth in Section 13 of this tariff may be applicable.

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

Alternate uses will be allowed provided that such use meets the technical protection parameters as set forth in Section 7.2.

7.1.5 Special Facilities Routing

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

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.6 Design Layout Report

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

7.1.7 Acceptance Testing

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

- (A) For Voice Grade Services (VG): loss, 3-tone slope, d.c. continuity and operational signaling, where technically appropriate. Where a four-wire voice transmission interface provides two-wire voice transmission, (i.e., there is a four-wire to two-wire conversion), balance (equal level echo path loss) will also be tested. Additionally, C-notched noise and C-message noise tests will be provided where technically appropriate, as well as frequency response, harmonic distortion, phase jitter, impulse noise and delay distortion for all analog facilities.
- (B) All other Special Access Services will be tested to the performance parameters specified for the individual services.

Additional tests may be ordered as set forth in 13.1.10 following. Charges for these additional tests are set forth in 13.2 and 13.3.1(A).

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7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.8 Ordering Options and Conditions

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

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7. Special Access Service (Cont'd)

7.2 Service Descriptions

For the purposes of ordering, there are nine categories of Special Access Service. These are:

Voice Grade	(VG)
Program Audio	(AP)
Video	(TV)
Digital Data	(DA)
High Capacity	(HC)
Shared SONET Ring	(SSRS)
Gateway SONET Ring	(GSRS)
OptiPoint	(OC)
Sprint SONET Ring Service sm	

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

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

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

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

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises, between a customer designated premises and a Telephone Company Hub where bridging or multiplexing functions are performed, or between a customer designated premises and a WATS Serving Office.

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

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

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

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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

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

Voice Grade	TR-NWT-000335
Program Audio	GR-337
Video	GR-338
Digital Data	TR-NWT-000341
High Capacity	GR-54 and GR-342

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.2 Voice Grade Service

(A) Basic Channel Description

A Voice Grade (VG) channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire.

(B) Technical Specifications Packages

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

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

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.2 Voice Grade Service (Cont'd)(C) Channel Interfaces

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

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

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

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

- Voice Bridging (two-wire or four-wire): provides for the parallel connection of one voice circuit to another without interrupting the integrity or continuity of the first.
- Data Bridging (two-wire or four-wire): provides for the parallel connection of one data circuit to another without interrupting the integrity or continuity of the first.
- Telephoto Bridging (two-wire or four-wire): provides for the parallel connection of one Telephoto circuit to another without interrupting the integrity or continuity of the first.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.2 Voice Grade Service (Cont'd)(D) Optional Features and Functions (Cont'd)(2) Reserved For Future Use(3) Loopback Capability

Loopback Capability allows transmission tests of circuits to be performed from the serving central office to the customer premises without the assistance of personnel at the customer premises.

(4) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services.

More stringent specifications than those provided with C-Type conditioning are available separately for attenuation distortion and envelope delay distortion. The customer has the option of ordering Improved Attenuation Distortion and/or Improved Envelope Delay Distortion in lieu of C-Type conditioning.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.2 Voice Grade Service (Cont'd)(D) Optional Features and Functions (Cont'd)(4) Conditioning (Cont'd)

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

(a) C-Type Conditioning

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

(b) Improved Attenuation Distortion

Improved Attenuation Distortion upgrades the frequency vs. loss response limits.

(c) Improved Envelope Delay Distortion

Improved Envelope Delay Distortion upgrades the frequency vs. delay response limits of the channel.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.2 Voice Grade Service (Cont'd)(D) Optional Features and Functions (Cont'd)(4) Conditioning (Cont'd)(d) Sealing Current Conditioning

Sealing current conditioning is normally provided by the Telephone Company to ensure continuity on four-wire dry metallic facilities, and is primarily associated with channel interface codes DA and NO. In instances where the Telephone Company does not require the addition of sealing current conditioning to maintain service continuity, customers may order this option to achieve a higher standard of reliability. Customer orders are subject to the rates and charges set forth in 7.5.2(D)(2) following.

(e) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. This level must be within a specific range on effective four-wire transmission.

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- (f) Improved Termination - On Effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered.
- (g) Improved Return Loss - On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control Specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.2 Voice Grade Service (Cont'd)(D) Optional Features and Functions (Cont'd)(4) Conditioning (Cont'd)(h) DA-Type Conditioning

DA-Type Conditioning provides transmission characteristics suitable for data communications. Specifically, DA-Type Conditioning provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameters for DA-Type Conditioning are:

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

When a service equipped with DA-Type Conditioning is used for voice communications, the quality of the voice transmission may not be satisfactory.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.2 Voice Grade Service (Cont'd)

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

(4) Conditioning (Cont'd)

(i) Telephoto Capability

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

Attenuation Distortion
(1004 Hz Reference)

<u>Frequency Range (Hz)</u>	<u>Variation (dB)</u>
500-3000	-0.5 to +1.5
300-3200	-1.0 to +2.5

Envelope Delay Distortion

<u>Frequency Range (Hz)</u>	<u>Variation (microseconds)</u>
1000-2600	≤ 75
800-2800	≤130

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.2 Voice Grade 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 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>
C-Type Conditioning Central Office Bridging Capability	X					X	X	X	X	X	X		
Customer Specified Premises Receive Level	X	X	X	X	X	X	X	X	X	X	X	X	X
DA-Type Conditioning Improved Attenuation Distortion	X					X	X	X	X	X	X		
Improved Envelope Delay Distortion	X					X	X	X	X	X	X		
Improved Termination	X	X	X	X	X	X	X	X	X	X	X	X	X
Improved Ret. Loss	X		X	X				X					
Loopback Capability	X	X	X	X	X	X	X	X	X	X	X	X	X
Sealing Current Conditioning	X					X	X				X		
Telephoto Capability	X											X	

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.2 Voice Grade Service (Cont'd)(E) Four-Wire/Two-Wire Conversions

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.

7.2.3 Program Audio Service(A) Basic Channel Description

A Program Audio channel is a channel measured in Hertz 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.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Program Audio Service (Cont'd)

(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package AP-</u>					
	<u>C*</u>	<u>0#</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 desired parameters are selected by the customer from the list of available parameters.

The channel performance for a Program Audio Package AP-0 is determined by the basic subscriber loop facility to which it is assigned. No performance guarantees are stated or implied. AP-0 is offered only on a two point basis without amplification, transmission enhancements or specified transmission parameters.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 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-0	Nominal frequency from 300 to 2500 Hz
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(C) following.

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

Provides for the parallel connection of one virtual circuit to another virtual circuit without interrupting the integrity or continuity of the first.

(2) Gain Conditioning

Control of 1004 Hz AML at initiation of service to 0dB \pm 0.5dB.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Program Audio Service (Cont'd)

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

(3) Stereo

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

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

	Available with Technical Specifications Package AP-					
	<u>C</u>	<u>0</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Central Office Bridging Capability	X		X	X	X	X
Gain Conditioning	X		X	X	X	X
Stereo	X					X

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.4 Video Service(A) Basic Channel Description(1) Analog Video Service

An analog video (TV) channel is an operational 6.2 Mhz channel with one-way transmission capability for a standard 525 line/60 field monochrome or National Television Systems Committee color video signal and up to four associated 5 to 15 kHz audio signal(s). The associated audio signal(s) may be either diplexed or provided as one or two separate channels. The provision and bandwidth of the associated audio signal(s) is a function of the channel interface selected by the Customer. Analog video service is available where technically feasible.

(2) Digital Video Transport Service

Digital video transport provides for the transport of one way or two way digital video signals to the customer's network interface via a 45 Mbps electrical circuit, with the associated CODEC equipment supplied by the customer. The actual bit rate and framing format for digital video transport is determined by the channel interface selected by the customer. Digital video transport is available where technically feasible, and may not be combined with the analog video services set forth in (1) preceding.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.4 Video Service (Cont'd)(A) Basic Channel Description (Cont'd)

Video services are available on a monthly, daily, or per event basis. Separate nonrecurring installation, channel termination, and channel mileage (termination and facility per mile) rates, as set forth in Section 7.5.4(A) and (B) following, apply for monthly and daily video service. The per event option is available to customers ordering video service for not more than 10 days, and includes the installation, channel termination and channel mileage charges in a single rate as set forth in Section 7.5.4(C) following. For events exceeding 10 days, the monthly or daily recurring and nonrecurring charges will apply.

When special construction of facilities is required for the provision of video services, the rates and regulations set forth in Section 14 following will apply.

For video services, the standby of technician(s) may be required. The Telephone Company will inform the Customer of standby charges before providing a Firm Order Confirmation Date. Standby charges are set forth in Section 13.2.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 Video Service (Cont'd)

(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package TV-</u>		
	<u>C*</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

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

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 Video Service (Cont'd)

(B) Technical Specifications Packages (Cont'd)

<u>Parameter</u>	<u>Package TV-</u>		
	<u>C*</u>	<u>1</u>	<u>2</u>
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
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 Non-Linearity	X		
Video/Audio Delay Difference	X		

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

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 Video Service (Cont'd)

(C) Channel Interfaces

The following channel interfaces (CIs) define the bandwidth and the provision of the audio signal(s) associated with a Video channel:

<u>CI</u>	<u>Audio Bandwidth</u>	<u>Provision</u>
2TV6-1	15 kHz	1 Channel, diplexed
2TV6-2	15 kHz	2 Channels, diplexed
2TV7-1	15 kHz	1 Channel, diplexed
2TV7-2	15 kHz	2 Channels, diplexed
4TV6-5	5 kHz	1 Channel, separate
4TV6-15	15 kHz	1 Channel, separate
4TV7-5	5 kHz	1 Channel, separate
4TV7-15	15 kHz	1 Channel, separate
6TV6-5	5 kHz	2 Channels, separate
6TV6-15	15 kHz	2 Channels, separate
6TV7-5	5 kHz	2 Channels, separate
6TV7-15	15 kHz	2 Channels, separate

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

7.2.5 Reserved For Future Use

7.2.6 Reserved For Future Use

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.7 Digital Data Service

(A) Basic Channel Description

A Digital Data Access (DA) channel is a channel for duplex four-wire transmission of 2.4, 4.8, 9.6, 19.2, 38.4, 56, or 64 kbps. The actual bit rate is a function of the protocol combination selected by the Customer. The channel provides a synchronous service with timing provided through the Telephone Company's facilities to the Customer in the received bit stream. Subrating is not available at the 19.2 kbps speed.

The customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises.

(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 Publication MDP-326-726.

(C)

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.7 Digital Data Service (Cont'd)(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-19	19.2 kbps
DU-38	38.4 kbps
DU-56	56.0 kbps
DU-64	64.0 kbps

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

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

Provides for the parallel connection of one virtual circuit to another virtual circuit without interrupting the integrity or continuity of the first. This service is only available from a company-designated digital hub.

(2) Reserved For Future Use

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.7 Digital Data Service (Cont'd)(D) Optional Features and Functions (Cont'd)(3) Secondary Channel

A data transmission channel having a lower signaling rate capability than the primary channel in a system in which two channels share a common interface.

Secondary Channel Capability provides for an additional low-speed digital transmission channel within the existing 56.0 kbps primary channels. The Secondary Channel can be used as a communications channel for the controlling and monitoring of the customer's network.

(4) Data Amplification

Provides for data transmission when the customer is located beyond the normal range of 42 decibel (dB) loss for digital data service (56.0 kbps and 64 kbps). The dB loss is determined by the route and length of the cable in addition to the gauge of the cable from the last signaling point (usually, but not always the switching office) to the customer's premise. When the dB loss is greater than 42, a repeater and associated equipment must be installed to regenerate the digital signal for accurate and acceptable data transmission to occur.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.7 Digital 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 DA-			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Central Office Bridging Capability	X	X	X	X
Secondary Channel Data Amplification				X

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service(A) Basic Channel Description

- (1) A High Capacity channel is a channel for the transmission of 1.544 or 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High capacity services are provided between customer designated premises through serving wire centers or between a customer designated premises and a Telephone Company hub.

The channel termination rate element for DS3 services may vary based on distance. The mileage used to determine the monthly rate for channel terminations located outside a Telephone Company Central Office is the airline distance between the customer's designated premises and the Telephone Company serving wire center. The mileage measurement is determined by utilizing exchange maps and mileage tables located in designated Telephone Company offices for such purposes.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(A) Basic Channel Description (Cont'd)

- (2) Fractional DS1 channels provide simultaneous, two-way transmission at contiguous bit rates of 128.0, 256.0, and 384.0 kbps. Fractional DS1 channels operate over the combined bandwidth of adjacent channels to create a contiguous bit rate.

Due to technical limitations associated with the provision of Fractional DS1, this service will be offered only in central offices where a compatible channel bank exists and the distance between the central office and the customer designated premises is less than or equal to 12,000 feet.

- (3) Reserved for Future Use

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 High Capacity Service (Cont'd)

(A) Basic Channel Description (Cont'd)

(4) Reserved for Future Use

(B) Technical Specifications Packages

<u>Parameters</u>	<u>Package HC-</u>					
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Error-Free Seconds	X	X				

A channel with technical specifications package HC1 will be capable of an error-free seconds 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 Reference Publication GR-54.

(C)

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(C) Channel Interfaces

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

<u>CI</u>	<u>Bit Rate</u>
DS-15	1.544 Mbps (DS1)
DS-44	44.736 Mbps (DS3)
SO--, SM--	155.52 Mbps (OC3)
SO--, SM--	622.08 Mbps (OC12)
SO--, SM--, SN--	2488.32 Mbps (OC48)

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

(D) Optional Features and Functions(1) Automatic Loop Transfer

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. 1xN protection provides one spare channel for up to a maximum of six working channels. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. Spare channel priority is given to the lowest numbered slot based upon slot position. Slot position

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(1) Automatic Loop Transfer (Cont'd)

number one is given highest priority. 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 premises. The customer is responsible for providing the equipment at its premises. This feature is not available with 1.544 Mbps channels having the B8ZS line code.

(2) Central Office Multiplexing(a) DS3 to DS1

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

(b) DS1 to Voice

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 or Program Audio (PG-0 or PG-3).

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 High Capacity Service (Cont'd)

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

(2) Central Office Multiplexing (Cont'd)

(c) DS1 to DS0

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

(d) Reserved For Future Use

(e) Reserved for Future Use

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(3) Clear Channel Capability

Clear Channel Capability (CCC) is an arrangement that alters a DS1/1.544 Mbps signal with unconstrained information bits to meet pulse density requirements outlined in Technical Reference Publications GR-54 and GR 342. (C)
This will allow a customer to transport an all zero octet over a DS1/1.544 Mbps High Capacity channel providing an available combined maximum 1.536 Mbps data rate. This arrangement requires the customer signal at the channel interface to conform to Bipolar with 8 Zero Substitution (B8ZS) line code as described in Technical Reference Publications GR-54 and GR-342. (C)

CCC is provided on DS1/1.544 Mbps High Capacity channels between two customer designated premises and is subject to the availability of facilities. This optional feature may be ordered at the same time the DS1/1.544 Mbps High Capacity channel is ordered, or it may be ordered as an additional feature of an existing channel.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 High Capacity Service (Cont'd)

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

(4) Reserved For Future Use

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 High Capacity Service (Cont'd)

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

(4) Reserved For Future Use (Cont'd)

(T)

(D)

(D)

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7.2 Service Descriptions (Cont'd)

7.2.8 High Capacity Service (Cont'd)

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

(4) Reserved For Future Use (Cont'd)

(T)

(D)

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Digital Cross Connect Service (DCCS)(a) General Description

1. Digital Cross Connect Service (DCCS) provides special access customers flexibility in reconfiguring their company provided special access networks.
2. DCCS offers customers with fluctuating transmission requirements the ability to more efficiently utilize their networks by changing designated terminations without circuit changes.
3. DCCS customers may elect to merge various combinations of individual voice grade circuits (64 kbps DSO channels) into DS1 (1.544 Mbps) circuits.
4. The subrate multiplexing options offered with DCCS allow DSO channels to be divided into channels of even less capacity. One 64 kbps DSO channel can be divided into twenty channels, each having 2.4 kbps capacity; ten channels, each having 4.8 kbps capacity; or five channels, each having 9.6 kbps capacity.
5. Individual 64 kbps DSO channels can be bridged via an optional bridging arrangement within the digital cross-connect system. Each bridging arrangement

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Digital Cross Connect Service (DCCS) (Cont'd)(a) General Description (Cont'd)

5. (Cont'd)

can bridge up to 5 digital 64 kbps DSO channels or up to 30 analog termination channels. Individual digital bridging arrangements can be connected to provide for larger bridging requirements; however, this cascading will require the use of one channel in each bridge for this connection.

(b) Customer Circuits

The basic unit of service for DCCS is a single voice frequency (DSO) channel. Service is also provided for full DS1 (1.544 Mbps) digital circuits or synchronous subrate digital circuits (2.4, 4.8 or 9.6 kbps). Special access circuits associated with DCCS will be provided by the Telephone Company pursuant to the relevant terms and conditions for the type of circuit as outlined elsewhere in Section 7 of this tariff.

(c) Customer Interface

DCCS customers may impose network reconfiguration instructions as follows:

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Digital Cross Connect Service (DCCS) (Cont'd)(c) Customer Interface (Cont'd)

1. Basic service - the customer submits via normal ordering procedures, requests for changes which are implemented by the Telephone Company through normal service provisioning procedures.
2. Company-controlled - the customer issues verbal commands to the Telephone Company's control center which accesses a Network Management System (NMS) to reconfigure the customer's network. The company-controlled capabilities are only offered where the Telephone Company has a suitable NMS.

(d) Maintenance and Operation

1. When the Telephone Company performs necessary preventative and/or routine maintenance, DCCS may not be available for circuit reconfiguration. Circuits in operation during these times will continue in operation but may not be reconfigured. Upgrades in DCCS software may also require system downtime. Customers will be notified at least 24 hours in advance of outages due to software upgrades.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Digital Cross Connect Service (DCCS) (Cont'd)(d) Maintenance and Operation (Cont'd)

2. No credit allowance in DCCS monthly charges will be provided for interruptions required to perform the maintenance or software upgrades.

(e) Regulations

1. DCCS provides network reconfiguration capability through the DCS, and establishes a jurisdictional demarcation point for dedicated services for rate application purposes. The jurisdiction and rates for the dedicated services on either side of DCCS are determined independent of the other.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Digital Cross Connect Service (DCCS) (Cont'd)(e) Regulations (Cont'd)

2. The regulations and rates for DCCS are in addition to applicable regulations and rates specified in other sections of this tariff.
3. DCCS is furnished only from serving wire centers equipped with digital cross-connect systems and is provided subject to the availability of appropriate facilities.
4. Optional DCCS capabilities are furnished only from serving wire centers equipped with appropriately equipped digital cross-connect systems and/or network management systems.
5. Some DCCS features and functions may not be available in all digital cross-connect systems. The customer should contact the Telephone Company to determine the availability of DCCS features in each location.

(f) Connections

DCCS applies to the reconfiguration of connections between pairs of special access service channels only at the DSO level or 24 consecutive DSO channels. All services on

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Digital Cross Connect Service (DCCS) (Cont'd)(f) Connections (Cont'd)

channels to the DCCS may not be compatible, consequently, certain configuration combinations must be denied. The Telephone Company shall not be responsible for service interruptions, troubles, loss of customer data, etc., resulting from invalid reconfiguration attempts. A channel service compatibility list will be provided to customers upon request.

DSO and DS1 signals as defined in the Telephone Company's technical references may be terminated on DCCS. Other multiplexing formats must be converted to a standard D4 format. If the Telephone Company determines that the requested technical specifications are not compatible, the customer will be notified and given the opportunity to change the order.

(g) DCCS Options

1. DS3 connections to the digital cross-connect system can be provided in suitably equipped serving wire centers. The customer may elect to merge various DS1 and DS3 services, and in some locations may merge individual DSO services. All other terms and conditions of DCCS as set forth in this section apply to DS3 connections.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Digital Cross Connect Service (DCCS) (Cont'd)(g) DCCS Options (Cont'd)2. Shared DCCS Arrangement

Multiple customers may include circuits with the DCCS option in the same DCCS arrangement, provided that all customers designate in writing the same party to serve as their agent.

The designated agent will be authorized to represent each of the customers in a shared DCCS arrangement in all transactions and communications with the Telephone Company. Such transactions may include reconfigurations, monitoring, ordering of additional special access services and DCCS Service options in the arrangement, and removal of special access services from the arrangement. The Telephone Company will not process customer orders or requests affecting shared DCCS arrangements or circuits included in shared arrangements except those submitted by the agent.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Digital Cross Connect Service (DCCS) (Cont'd)(g) DCCS Options (Cont'd)2. Shared DCCS Arrangement (Cont'd)

The Telephone Company shall not be liable for any loss to any of the customers in a shared DCCS arrangement caused directly or indirectly by actions of the agent or another customer in the shared arrangement. Each customer in the shared arrangement and the agent shall indemnify the Telephone Company for the costs of any and all claims arising directly or indirectly out of the actions of agent or another customer in the shared arrangement, including, but not limited to, the cost of defending against such claims.

Any customer in a shared DCCS arrangement must give the Telephone Company 30 days prior written notice of its intent to revoke an agent's authority and to remove all its special access services from a shared arrangement. Such notice shall not be effective unless the customer provides the Telephone Company with specific and sufficient directions regarding treatment of the customer's special access services upon revocation of the agent's authority or removal from the shared arrangement.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Digital Cross Connect Service (DCCS) (Cont'd)(h) Application of Rates

1. For each DCCS, the appropriate Basic Service DCCS connection charge applies. A DCCS connection charge is required for each special access circuit terminating via a digital cross-connect system port.
2. A multipoint bridging charge is applicable for each DSO channel which is terminated in a bridging arrangement.
3. A subrate multiplexing charge is applicable for each 2.4 kbps, 4.8 kbps and 9.6 kbps channel which is derived via a subrate multiplexing arrangement.
4. An NMS data base charge applies for each DCCS arrangement under which company-controlled reconfiguration capability is provided. The per customer nonrecurring charge is applied to the initial data base establishment. The per circuit nonrecurring charge is applied on the initial and all subsequent orders which require adding circuits to or removing circuits from the digital cross-connect system.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Digital Cross Connect Service (DCCS) (Cont'd)(h) Application of Rates (Cont'd)

5. The company-performed reconfiguration nonrecurring charge is applicable when the customer chooses to have Telephone Company personnel perform the reconfiguration activities. The Telephone Company will perform the reconfiguration based on instructions from the customer. This charge is applied in increments of thirty (30) minutes for each occurrence.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(6) Multiplexed Access Service Connection (MASC)

MASC is an arrangement that allows one channel of a multiplexed Telephone Company service to be connected to one channel of the same bit rate and like signaling of another multiplexed Telephone Company service. For example, the lesser speed may be a DS1 channel between two multiplexed DS3 services, or an OC3 channel between OC12 and OC48 services. MASC will be provided at all Telephone Company locations where multiplexing is performed or between two Telephone Company locations where multiplexing is performed. MASC is available at DS0 or voice, DS1, DS3, OC3 and OC12 levels.

(7) Extended Superframe Format (ESF)

The ESF optional feature is available at suitably equipped end offices, and passes a customer provided framing format for 1.544 Mbps high capacity service. ESF extends the customer's 1.544 Mbps framing structure from 12 to 24 frames and divides the 8 Kbps 193rd bit position pattern into three distinct functionalities: 2 Kbps for frame synchronization, 2 Kbps for cyclic redundancy checking, and 4 Kbps used primarily for performance monitoring information.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(8) NetPointsm(a) General Description

NetPointsm is an Integrated Service Digital Network-Primary Rate Interface (ISDN-PRI) standardized access product offering supported by the ISDN architecture which provides for the integration of multiple voice and data transmission channels on the same line.

Customers may order NetPointsm as one of the following options:

NetPointsm1 (1-way) - provides only inbound termination for data traffic.

NetPointsm2 (2-way) - provides for 2-way originating and terminating voice and data traffic.

The basic configuration for NetPointsm is twenty-three (23) 64 kbps B-channels and one (1) 64 kbps D-Channel for a total transmission rate of 1.544 Mbps.

NetPointsm provides an industry standard digital connection which offers customers access to a variety of circuit switched services and features, including data, voice and video.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(8) NetPointsm (Cont'd)(b) NetPointsm Features

The following features are provided with NetPointsm at no additional charge to the customer:

1. Incoming Call Identification (Caller ID)

Caller ID provides the customer with the telephone number of the calling party and is intended solely for the use of the NetPointsm service subscriber.

2. Direct Inward Dialing (DID)

DID provides for unique identification of the calling party. The DID feature must be ordered if the Caller ID has been requested.

3. D-Channel Control of Multiple NetPointsm Arrangements

D-Channel Control permits a single D-Channel to provide signaling and control for 23 up to 95 B-Channels. Activation of this feature allows up to 3 signaling channels to be used for additional data transport (B-Channels).

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(8) NetPointsm (Cont'd)(b) NetPointsm Features (Cont'd)4. Clear Channel Capability

Clear Channel Capability provides Bipolar with 8 Zero Substitution (B8ZS) line code on NetPointsm service arrangements, as described in 7.2.8(D)(3) preceding. The B-channels on NetPointsm are clear of the signaling and control functions handled on the D-channel. This allows all 64 kbps on each B-channel to be used for customer information.

5. Extended Superframe Format (ESF)

ESF, as described in 7.2.8(D)(7) preceding, extends the customer's 1.544 Mbps framing structure from 12 to 24 frames and divides the 8 kbps 193rd bit position pattern into three distinct functionalities: 2 kbps for frame synchronization, 2 kbps for cyclic redundancy checking and 4 kbps used primarily for performance monitoring information.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(8) NetPointsm (Cont'd)(b) NetPointsm Features (Cont'd)

At the customer's option, NetPointsm may also be provisioned with the Enhanced Hunt Group (EHG) feature at the rates set forth in 7.5.8(C)(12)(c) following.

The EHG feature allows customers to utilize the full capacity of a NetPointsm service arrangement through circular hunting capability. The EHG feature is generally available in Telephone Company wire centers equipped with ISDN-PRI functionality, and provides customers greater flexibility in sizing and managing their networks.

When a customer orders NetPointsm with the EHG feature, the customer and the Telephone Company will work cooperatively to plan, engineer, provision and manage the EHG feature. The monthly recurring rates for the EHG feature are in addition to all applicable recurring rates and nonrecurring charges for a DS1 channel equipped with NetPointsm. When EHG is requested coincident with the customer's initial NetPointsm order, no additional nonrecurring charges will be assessed for the installation of EHG. When EHG is added subsequent to the customer's initial NetPointsm order, the nonrecurring charge associated with a DS1 service rearrangement will apply.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(8) NetPointsm (Cont'd)(c) Regulations

NetPointsm will be provided on DS1 high capacity facilities for connection to other access services provided by the Telephone Company, and may not be terminated to a modem pool, PBX, or other customer premises equipment (CPE) of the customer. The customer is responsible for ordering the DS1 service at the same time NetPointsm is ordered. At the customer's option, existing DS1 high capacity facilities may be upgraded to include NetPointsm. NetPointsm requires the full 1.544 Mbps of the DS1 facility and cannot be allocated to fractions of the DS1 facility.

NetPointsm is available in central offices suitably equipped with ISDN capability as identified in the National Exchange Carrier Association Tariff F.C.C. No. 4. If the central office serving the customer is not equipped for ISDN, the Telephone Company will provide NetPointsm from an alternate serving wire center which is ISDN capable at no additional charge to the customer.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(8) NetPointsm (Cont'd)(c) Regulations (Cont'd)

In order to maintain the quality of NetPointsm service, the Telephone Company reserves the right to perform preventative and/or routine maintenance and software upgrades to the network. The Telephone Company will perform any required maintenance or software upgrades in a maintenance window that is anticipated to minimize disruption of customer service and activity. The Telephone Company will provide advance notice of all scheduled maintenance.

When the Telephone Company is required to perform maintenance to the network as a result of unexpected events, prior notification may not be possible. However, the customer will be notified upon completion of the required maintenance.

No credit allowance for NetPointsm charges will be provided for interruptions required to perform the maintenance or software upgrades.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(8) NetPointsm (Cont'd)(d) Application of Rates

For each NetPointsm service, a monthly recurring rate and nonrecurring charge will apply. The NetPointsm rates are in addition to applicable recurring rates and nonrecurring charges for the DS1 (1.544 Mbps) channel to be equipped with NetPointsm.

Nonrecurring charges will not apply when NetPointsm is ordered on a DS1 channel termination committed to a term discount plan (TDP) in accordance with Sections 7.4.11 and 7.4.16 following, or when a customer upgrades existing ISDN-PRI provided under a General or Local exchange tariff to a DS1 equipped with NetPointsm.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 High Capacity 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 HC-		
	<u>0</u>	<u>1</u>	<u>3</u>
Automatic Loop Transfer		X	
Central Office Multiplexing:			
DS3 to DS1			X
DS1 to Voice		X	
DS1 to DS0		X	
Clear Channel Capability		X	X
Digital Cross Connect Multiplexer Access Service Connection	X	X	X
Extended Superframe Format		X	
NetPoint		X	

(D)

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7. Special Access Service (Cont'd)

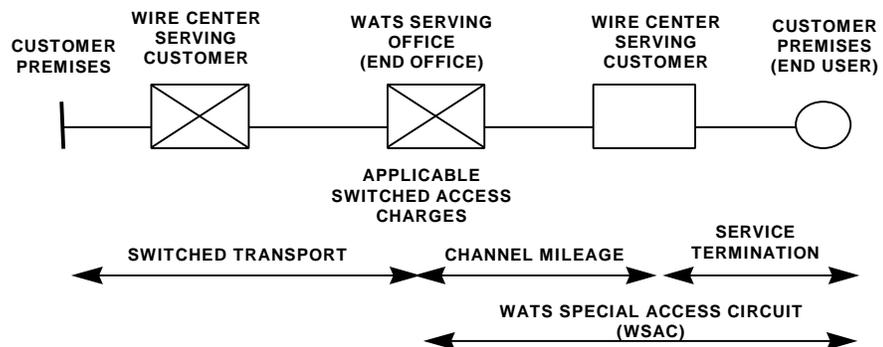
7.2 Service Descriptions (Cont'd)

7.2.9 Special Access Service Utilized for Connection with Switched Access Service

(A) Basic Service Description

A special access service utilized for connection with a switched access service implemented as a voice grade dedicated communications path between the customer's end user and a WATS Serving Office (WSO) equipped with Feature Groups A, B, C or D service, together, form the functional parts that are the major building blocks of the WATS* service. Switched access optional arrangements are available as set forth in Section 6.3. Both of these functional elements are necessary to provide service from the customer's end user to the customer's designated premises.

A WATS special access circuit (WSAC) may be provided as an originating only, terminating only, or two way (originating and terminating) service, at the option of the customer. If a WSO is not capable of implementing a state-mandated restriction, the WSAC will be extended free of charge to the nearest WSO capable of performing the necessary function.



* Use of the Terms "WATS" and/or "WATS like" is descriptive only and is not intended to restrict provision of a WSAC to a specific type of service.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 Special Access Service Utilized for Connection with Switched Access Service
(Cont'd)(B) WATS Special Access Circuit (WSAC)

A WATS Special Access Circuit (WSAC) is comprised of a Channel Termination between the customer's end user serving wire center and the customer's end user premises as specified in Section 7.1.2(A). If the WSO and the end user's serving wire center are not the same, Channel Mileage as specified in Section 7.1.2(B) preceding is applicable from the end user's serving wire center to the WSO.

The transmission path is offered as either effective two-wire, effective four-wire, or a high capacity access connection. This service is provided with rotary dial or dual tone multi-frequency address signaling, and with either loop start or ground start signaling. Additionally, other optional features such as improved return loss can be provided.

(C) Voice Grade Service Restrictions

When a WSAC, as described in (B) preceding, is used for multi-jurisdictional access, and when the Telephone Company's intrastate tariff provides for customer billing for these facilities, the Telephone Company will exempt the customer from the intrastate charges related to the WSAC and channel mileage where applicable. All calls carried over a special access line used in conjunction with common switching optional features for multi-jurisdictional access will be passed to the customer for completion except when state restrictions apply or when the end user voluntarily uses a multiple carrier access code (assuming 101XXXX dialing has not been restricted by the customer).

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 Special Access Service Utilized for Connection with Switched Access Service
(Cont'd)(C) Voice Grade Service Restrictions (Cont'd)

When the WSAC is provisioned with Feature Group A, it can only be used for service in the terminating direction.

Individual state restrictions are as follows:

(1) State of Florida

By order of the Florida Public Service Commission in Docket No. 870660-TI, Order No. 20154, the use of bi-jurisdictional WSACs is approved. All 1+ and 0+ intrastate intraLATA traffic originated on a bi-jurisdictional WSAC will be blocked or screened, where possible, and retained by the serving local exchange carrier. Intrastate intraLATA Access Blocking or Screening, as described in Sections 6.3(T)(7) and 6.3(T)(8), will be provided by the Telephone Company at no charge. Intrastate intraLATA calling must conform to the rules and regulations of the Florida Public Service Commission.

Additionally, interexchange carriers that provide Toll Free Code (TFC) service in conjunction with bi-jurisdictional WSACs shall provide the Telephone Company an annual report, performed by a qualified auditor, which shall attest to the validity of the methodology used to develop the TFC service percent interstate use (PIU), i.e., the split between interstate and intrastate terminating TFC of use.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 Special Access Service Utilized for Connection with Switched Access Service
(Cont'd)(C) Voice Grade Service Restrictions (Cont'd)(2) State of Indiana

By order of the Indiana Public Service Commission in Causes 37240, 37250 and 37555, interexchange carriers are not authorized to offer intrastate intraLATA telephone service in Indiana. Interexchange carriers, when authorized by the Indiana Public Service Commission, are allowed to provide resold intrastate intraLATA telephone service. Intrastate intraLATA calling must conform to the rules and regulations of the Indiana Public Service Commission. WATS or "WATS like" calls placed on a WSAC will either be blocked by, or alternatively, passed to the Telephone Company's network for completion, at the customer's option. These options, as described in Sections 6.3(T)(7) or 6.3(T)(8), will be provided by the Telephone Company at no charge.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 Special Access Service Utilized for Connection with Switched Access Service
(Cont'd)(C) Voice Grade Service Restrictions (Cont'd)(3) State of Kansas

By order of the Kansas Corporation Commission in Docket No. 127,140-U, all 1+ dialed intrastate intraLATA calls are to be completed by the Telephone Company. Intrastate intraLATA calling on a bijurisdictional WSAC must conform to the rules and regulations of the Kansas Corporation Commission. All customer dialed 101XXXX calls will be passed to the carrier identified by the dialed carrier access code; 1+ dialed intrastate intraLATA calls placed on a WSAC will either be blocked by, or alternatively, passed to the Telephone Company's network for completion, at the customer's option. These options, as described in Section 6.3(T)(7) or 6.3(T)(8), will be provided by the Telephone Company at no charge.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 Special Access Service Utilized for Connection with Switched Access Service
(Cont'd)(C) Voice Grade Service Restrictions (Cont'd)(4) State of New Jersey

By order of the New Jersey Board of Public Utilities in Docket 8312-1126, interexchange carriers are not authorized to offer intrastate intraLATA WATS or "WATS like" service. Intrastate intraLATA calling must conform to the rules and regulations of the New Jersey Board of Public Utilities. Originating intrastate intraLATA calls placed on a WSAC are subject to blocking, either by the interexchange carrier or the Telephone Company or, alternatively, screening and routing over the local exchange carrier network by the serving LEC, as directed or allowed by the New Jersey Board of Public Utilities. These options, as described in Section 6.3(T)(7) or 6.3(T)(8), will be provided by the Telephone Company at no charge. Terminating intrastate intraLATA (TFC) calls should be returned by the interexchange carrier to the Telephone Company for completion, or if this is not possible due to technical limitations and such calls are completed, billing information should be returned to the Telephone Company to bill such calls as its own traffic.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 Special Access Service Utilized for Connection with Switched Access Service
(Cont'd)(C) Voice Grade Service Restrictions (Cont'd)(5) State of North Carolina

By order of the North Carolina Utilities Commission in Docket P-100, Sub 96, bi-jurisdictional WSACs were found to be in the public interest. All local, "1+" and "0" intrastate intraLATA traffic originated on a WSAC will be screened and automatically routed by the serving local exchange carrier which shall complete such traffic using its facilities or facilities of such other LECs as are necessary. Intrastate intraLATA calling must conform to the rules and regulations of the North Carolina Utilities Commission. Unauthorized intraLATA calls completed through the use of WSACs are subject to the Commission's intraLATA compensation plan. This required option, as described in Section 6.3(T)(8) will be provided by the Telephone Company at no charge.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 Special Access Service Utilized for Connection with Switched Access Service
(Cont'd)(C) Voice Grade Service Restrictions (Cont'd)(6) State of South Carolina

By order of the Public Service Commission of South Carolina in Docket No. 87-29-C, Order Nos. 87-982 and 88-968, the use of bi-jurisdictional WSACs were found to be in the public interest. All 1+ and 0+ intrastate intraLATA traffic originated on a bi-jurisdictional WSAC will be screened and routed by the serving local exchange carrier which shall complete such traffic using its facilities. Intrastate IntraLATA Access Screening, as described in Section 6.3.(T)(8), will be provided by the Telephone Company at no charge. Intrastate intraLATA calling must conform to the rules and regulations of the Public Service Commission of South Carolina.

Additionally, interexchange carriers that provide bi-jurisdictional WSACs must furnish to the Telephone Company the percentage of originating and terminating minutes on traffic served by offices lacking measurement capabilities.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 Special Access Service Utilized for Connection with Switched Access Service
(Cont'd)(C) Voice Grade Service Restrictions (Cont'd)(7) State of Tennessee

By order of the Tennessee Public Service Commission in Docket No. U-87-7491, interexchange carriers are not authorized to offer intrastate WATS or "WATS like" service jointly with interstate access sharing the same WSAC. Intrastate calling must conform to the rules and regulations of the Tennessee Public Service Commission. Originating intrastate WATS calls are subject to blocking by the Telephone Company, as directed by the Tennessee Public Service Commission. This option, as described in Section 6.3(T)(6) will be provided by the Telephone Company at no charge.

(8) State of Texas

By order of the Texas Public Utility Commission in Docket Nos. 5113 and 7020, all 1+ dialed intrastate intraLATA calls are to be completed by the Telephone Company. The rules, regulations and charges associated with intrastate intraLATA usage on a multi-jurisdictional WSAC are specified in Section 1, Subsection 1.2.3 of the Telephone Company's IntraLATA Services Tariff. All customer dialed 101XXXX calls will be passed to the carrier identified by the dialed carrier access code. 1+ dialed Intrastate intraLATA calls placed on a WSAC will either be blocked or alternatively passed to the Telephone Company's network for completion, at the customer's option. These options, as described in Sections 6.3(T)(7) or 6.3(T)(8), will be provided by the Telephone Company at no charge.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 Special Access Service Utilized for Connection with Switched Access Service
(Cont'd)(C) Voice Grade Service Restrictions (Cont'd)(9) State of Virginia

By order of the Virginia State Corporation Commission in Case No. PUC 850035, interexchange carriers are not authorized to offer intrastate intraLATA telephone service. Intrastate intraLATA calling must conform to the rules and regulations of the Virginia State Corporation Commission. Intrastate intraLATA WATS or "WATS like" calls placed on a WSAC will either be blocked, or alternatively, passed to the Telephone Company's network for completion, at the interexchange carrier's option. These options, as described in Sections 6.3(T)(7) or 6.3(T)(8), will be provided by the Telephone Company at no charge.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.10 Shared SONET Ring Service(A) Service Description

Shared SONET Ring Service (SSRS) provides dedicated bandwidth capacity over self healing ring topology. The shared network is in a SONET-equipped ring architecture designed to provide inherent end office to end user customer premises diversity as well as alternative central office routing. SSRS will provide 50 millisecond protection switching to assure 100 percent availability of the services on the ring. SSRS supports bandwidth capacities of 1.544 Mbps (DS1) and 44.736 Mbps (DS3) with an electrical interface.

SSRS is available in the following Telephone Company serving areas:

Fort Myers, Florida
Maitland/Winter Park, Florida

(B) Service Components(1) Ring Connection

The ring connection provides the customer with access on and off the SSRS. The ring connection includes a Telephone Company provided fiber optic terminal located on the customer premises, which constitutes a node on the SSRS. Each node shares network traffic with all other fiber optic terminal nodes from all customers subscribing to a SSRS. If a customer elects not to utilize a shared node facility, the customer can originate and terminate traffic off the SSRS. In such circumstances, special access charges as set forth in this Section and/or expanded interconnection charges as set forth in Section 17 following will apply for facilities provisioned to connect the customer to the SSRS. The ring connection includes one entrance to the customer premises. If a second entrance is requested by a customer, special

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.10 Shared SONET Ring Service (Cont'd)(B) Service Components (Cont'd)(1) Ring Connection (Cont'd)

construction charges, as set forth in Section 14 following, may apply.

The ring connection provides for (1) the connection from a node located at the end user premises to the SSRS or (2) termination at a serving wire center on the SSRS for connection to other Telephone Company services, such as special access or expanded interconnection.

(2) Ring Transport

The ring transport provides bi-directional, survivable transport on the SSRS. The ring transport is provided at a flat-rate monthly charge per DS1 or DS3 transport facility, regardless of the number of miles the DS1 or DS3 is routed on the SSRS.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.11 Reserved For Future Use

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.11 Reserved For Future Use (Cont'd)

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.11 Reserved For Future Use (Cont'd)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.11 Reserved For Future Use (Cont'd)

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.11 Reserved For Future Use (Cont'd)

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.12 Gateway SONET Ring Service(A) Service Description

Gateway SONET Ring Service (GSRS) is a dedicated, high capacity network designed to provide increased reliability and functionality via a self-healing ring topology between a customer designated location and Telephone Company central offices where facilities are available. When a customer orders GSRS, the customer and the Telephone Company will work cooperatively to plan, engineer, provision and manage the SONET ring service. The customer must convert existing circuits within a mutually agreed upon timeframe with the Telephone Company, not to exceed 18 months from the date of conversion of the first customer.

GSRS is provided for a period of three or five years, and is available at customer aggregation locations which terminate 337 or greater DS1 equivalents. If the total on-net and off-net circuit quantities terminated fall below 337, the customer will be billed for the 337 minimum commitment level at the appropriate DS1 end user connection rate set forth in Section 7.5.13 following. These charges will be assessed 90 days after the Telephone Company provides written notification to the customer about the shortfall. In determining the level of service a customer has at an aggregation location, each DS3 will represent 28 DS1 equivalents.

(B) Service Components(1) Entrance Ring Connection

The Entrance Ring Connection (ERC) is the primary aggregation point of the customer's traffic to or from the Telephone Company's interoffice network. ERCs are provided using an optical interface and will be provided with or without Telephone Company provided terminal

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.12 Gateway SONET Ring Service (Cont'd)(B) Service Components (Cont'd)(1) Entrance Ring Connection (Cont'd)

equipment at the customer's location. When the customer elects to furnish its own terminal equipment at the customer's premises, the Telephone Company will work cooperatively with the customer to provide a physical interface which satisfies the requirements of both parties, and will identify approved equipment types for use in conjunction with Telephone Company provided equipment. ERCs are offered at an OC12 level with a terminating bit rate of 622.08 Mbps, or at an OC48 level with a terminating bit rate of 2488.32 Mbps. The ERC provides transport capacity from the customer's designated premises to the serving wire center of that premises. The Telephone Company and the customer will work cooperatively to design a technically feasible ERC and to determine mutually agreeable conversion timeframes.

ERCs provide for the connection of two, three or four nodes via a dedicated SONET ring as described following:

- (a) Basic Entrance Ring Connection - provides a two node ring by connecting the customer's location to a single Telephone Company central office which is part of the existing interoffice facility ring using diverse routing.
- (b) Enhanced Entrance Ring Connection - provides a three node ring by connecting a single customer location to two Telephone Company central offices which are part of the existing interoffice facility rings.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.12 Gateway SONET Ring Service (Cont'd)(B) Service Components (Cont'd)(1) Entrance Ring Connection (Cont'd)

- (c) Premium Entrance Ring Connection - provides a four node ring with no single point of failure for the channel connection by connecting two customer locations to two Telephone Company central offices which are part of the existing interoffice facility rings.

The OC12 and OC48 ERC rate elements will be based on the following ring mileage: (1) 0-20 miles; (2) 21-40 miles ; and (3) 41 - 60 miles. If entrance ring mileage exceeds 60 miles , special construction charges as set forth in Section 14 following may apply. OC12 ERCs will be equipped with OC3 level interfaces; and OC48 ERCs will be equipped with OC12 level interfaces. When the customer requests that an ERC be provisioned utilizing an interface arrangement other than those set forth above, additional charges may be applicable and will be determined on an individual case basis.

(2) End User Connection

The End User Connection (EUC) provides the connection from the end user premises to the interoffice facility ring, and provides transport on the ring to the customer's serving wire center. EUCs are available at DS1 (1.544 Mbps), DS3 (44.736 Mbps) or OC3 (155.52 Mbps) service levels. At the customer's option, DS1 and DS3 EUCs may be equipped with the optional features and functions available for high capacity facilities as set forth in Section 7.2.8(D) preceding and 7.5.8(C) following. The sum total of the transport

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.12 Gateway SONET Ring Service (Cont'd)(B) Service Components (Cont'd)(2) End User Connection (Cont'd)

capacity associated with the EUC may not exceed the capacity of the ERC. End users will be connected to the interoffice facility ring via an on-net or off-net configuration as described following:

- (a) On-Net Connection - provides end user premises SONET Ring connectivity via a ring or point-to-point to a Telephone Company central office which is part of the interoffice facility ring. This connection can be SONET or asynchronous. On-net central offices are identified in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. (C)
- (b) Off-Net Connection - provides for the end user to be served by a Telephone Company central office which is not part of the interoffice facility ring. This connection can be SONET or asynchronous with connectivity to the closest on-net Telephone Company central office. Off-net central offices are identified in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. (C)

The Telephone Company will determine and provide the highest level of connection to an end user premises based on existing facilities.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.12 Gateway SONET Ring Service (Cont'd)(B) Service Components (Cont'd)

The two service components described in (1) and (2) preceding must be purchased concurrently. Customers may not order the Entrance Ring Connection or End User Connection independent of one another.

Once the customer has established GSRS as set forth in (A) preceding, non-Gateway circuits may be rolled onto the Gateway network for connection to the ERC. The customer will be billed the applicable special access rates as set forth in section 7.5 following for the non-Gateway circuits connecting to the GSRS ERC.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 OptiPoint Services(A) Basic Service Description

OptiPoint services provide point-to-point high speed synchronous optical fiber-based full duplex data transmission capabilities. There are three levels of OptiPoint services : OptiPoint-3 (OC3) is provided at a terminating bit rate of 155.52 Mbps; OptiPoint-12 (OC12) is provided at a terminating bit rate of 622.08 Mbps; OptiPoint-48 is provided at a terminating bit rate of 2488.32 Mbps.

OptiPoint services are provided for periods of three or five years. When a customer orders OptiPoint service, the customer and the Telephone Company will work cooperatively to plan, engineer, provision and manage the OptiPoint circuits.

(1) Channel Termination

OptiPoint channel terminations may be used to connect the following:

- a customer designated premises to another customer designated premises, configured at wire center locations between the two premises; or
- a customer designated premises to a Telephone Company location where service configuration is performed.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 OptiPoint Service (Cont'd)(A) Basic Service Description (Cont'd)(1) Channel Termination (Cont'd)

(a) Based on customer requirements, OC3 service may be provisioned in the following configurations:

(i) OC3 - three Synchronous Transport Signals (STS1) channels which each contain the following: (C)

- one DS3 that is STS1 mapped;

- up to 28 DS1s that are VT mapped;

- an STS1 channel without constraint to payload mapping when the STS1 channel does not terminate via a service configuration function to DS1 or DS3 services within the network; or

(ii) A single concatenated STS3c channel.

(b) Based on customer requirements, OC 12 service may be provisioned in the following configurations:

(i) OC12 - twelve STS1 channels which each contain:

- one DS3 that is STS1 mapped;

- up to 28 DS1s that are VT mapped;

- an STS1 channel without constraint to payload mapping when the STS1 channel does not terminate via a service configuration function to DS1 or DS3 services within the network;

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 OptiPoint Service (Cont'd)(A) Basic Service Description (Cont'd)(1) Channel Termination (Cont'd)

(b) (Cont'd)

(ii) Up to four concatenated STS3c channels;

(iii) From one to three STS3c channels mixed with from three to nine STS1 channels subject to utilization of the total OC12 capacity; or

(iv) A single concatenated STS12c channel.

(c) Based on customer requirements, OC48 service may be provisioned in the following configurations:

(i) OC48 – forty-eight STS1 channels which each contain:

- one DS3 that is STS1 mapped;

- up to 28 DS1s that are VT mapped;

- an STS1 channel without constraint to payload mapping when the STS1 channel does not terminate via a service configuration function to DS1 or DS3 services within the network;

(ii) Up to four concatenated STS12c channels;

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 OptiPoint Service (Cont'd)

(A) Basic Service Description (Cont'd)

(1) Channel Termination (Cont'd)

(c) (Cont'd)

- (iii) Up to sixteen concatenated STS3c channels;
- (iv) From one to three STS3c channels mixed with from 39 to 45 STS1 channels subject to utilization of the total OC48 capacity; or
- (v) From one to three STS12c channels mixed with from four to twelve OC3 channels subject to utilization of the total OC48 capacity.

Current SONET standards do not provide for asynchronous DS3 to DS1 multiplexing. An STS1 channel may be mapped for either one DS3 or 28 DS1s. However, DS1s within a DS3 are not accessible within the SONET architecture, and their performance cannot be guaranteed for this reason. When the customer requests that an OC3, OC12 or OC48 service be configured with a combination of DS3 and DS1 channels, a DS3 to DS1 multiplexing arrangement, as set forth in 7.2.8(D)(2)(a) preceding will be required.

(N)
 |
 (N)

Upon ordering OptiPoint service, the customer is responsible for identifying the STS signal configuration to be contained in each OC3, OC12, or OC48 service connection and each STS1, STS3, and/or STS12 payload content. This information is used in determining the route and connection in the network. If a new configuration is requested subsequent to the initial activation, a service reconfiguration charge will apply on a per service basis, as set forth in Section 7.5.8(C)(7)(a). The service reconfiguration charge is in addition to all applicable configuration node and configuration card charges associated with the new configuration.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 OptiPoint Service (Cont'd)(A) Basic Service Description (Cont'd)(1) Channel Termination (Cont'd)

OptiPoint service is provided with electronics that automatically activate in case of failure of the primary electronics. Since OptiPoint is a point-to-point service, SONET ring survivability will not be available. Rates for additional protection options requested by the customer will be quoted on an individual case basis and are in addition to the rates for OC3, OC12, and OC48 service.

OptiPoint channel terminations provided to a customer's designated premises will be installed in a single, common space under Telephone Company control. An OptiPoint entrance facility may not be split between premises or terminated in multiple locations within a premises. The customer must provide suitable floor space, environmental controls and non-switched AC power to support the OptiPoint entrance facility at the customer's premises location.

OptiPoint channel terminations will be provided with or without Telephone Company provided terminal equipment at the customer's premises. When a customer elects to furnish its own terminal equipment at the customer's premises, the customer will work cooperatively with the Telephone Company to provide a compatible physical interface, and will identify approved equipment types for use in conjunction with Telephone Company provided equipment. The customer is responsible for providing all facilities and cabling necessary to connect customer provided equipment to this interface.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 OptiPoint Service (Cont'd)(A) Basic Service Description (Cont'd)(1) Channel Termination (Cont'd)

OC3, OC12, and OC48 services may be configured for lower bandwidth services, at suitably equipped wire centers, by using appropriate OC3, OC12, or OC48 configuration nodes as set forth in (2) following.

OptiPoint channel terminations are available only where facilities and operating conditions permit. The Telephone Company will work cooperatively with the customer to determine if suitable existing Telephone Company SONET based facilities are available to provide the service. The Telephone Company will not provision this service on facilities which are not suitable for OptiPoint. Where facilities and/or operating conditions do not permit the provision of OptiPoint service, and the customer desires the Telephone Company to provision OptiPoint service, Special Construction charges, as set forth in Section 14 following, may apply.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 OptiPoint Service (Cont'd)(A) Basic Service Description (Cont'd)(2) Service Configuration

There are two types of charges associated with a service configuration as described following:

- (a) Configuration Node - is an arrangement at the system level that allows an OC3 service bandwidth to add or drop lower level signals up to three DS3s or three groups of twenty-eight DS1s . An OC12 service bandwidth can add or drop lower level signals up to four OC3s or twelve DS3s or equivalent combinations of OC3s, DS3s, and DS1s. An OC48 service bandwidth can add or drop lower level signals up to four OC12s, sixteen OC3s, forty-eight DS3s, or equivalent combinations of OC12s, OC3s, and DS3s.

When the customer requests that a DS1 channel be connected to an OC48 service terminating at a Telephone Company central office, a DS3 to DS1 multiplexing arrangement, as set forth in 7.2.8(D)(2)(a) preceding, may be required.

Channel mileage can be connected between serving wire centers with configuration nodes at a lower OC-n speed than the channel termination, if the channel mileage is between a lower speed configuration function and one of the following:

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 OptiPoint Service (Cont'd)(A) Basic Service Description (Cont'd)(2) Service Configuration

(a) (Cont'd)

- another lower speed configuration function;
- another lower speed channel termination; or
- a lower speed Shared SONET Ring.

All of the above terminations must be provided at the same speed as the transport.

- (b) Configuration Card - provides for the interface at which a channelized or lower speed service terminates or originates from an OptiPoint optical line terminated at a customer designated premises or a Telephone Company central office. DS1, DS3, OC3 concatenated, and STS-1 level cards are available for interfacing OptiPoint-3 service with lower level signals. DS1, DS3, OC3, OC3 concatenated, OC12 concatenated, STS-1, and STS-3 level cards are available for interfacing with OptiPoint-12 service. DS3, OC3, OC12, OC3 concatenated, OC12 concatenated, STS-1, and STS-3 level cards are available for interfacing with OptiPoint-48 service. When full OC3 and OC12 concatenated service is provided, no configuration node is required.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.13 OptiPoint Service (Cont'd)(A) Basic Service Description (Cont'd)(2) Service Configuration (Cont'd)

When a customer requests an OptiPoint service configuration, both the applicable node and card rate elements will apply. The rates for the configuration node and associated card(s) apply at each end of the channel termination when Telephone Company provided terminal equipment is provided at the customer premises.

When the customer elects to furnish its own terminal equipment at the customer premises, the rates for the configuration node and associated card(s) apply only at the end of the channel termination where Telephone Company equipment is provided.

Due to the technical limitations of SONET equipment, additional electronics are required when OptiPoint OC48 channel mileage configurations exceed 66 miles. In such situations, the customer will be charged for the additional electronics on an individual case basis.

Rates and charges for the configuration node and configuration cards are set forth in 7.5.8 following. Additional labor charges as set forth in Section 13 following will apply to configuration changes for STS level service.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

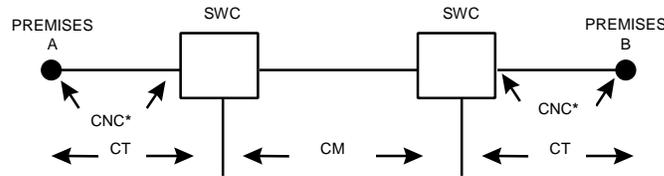
7.2.13 OptiPoint Service (Cont'd)

(A) Basic Service Description (Cont'd)

(2) Service Configuration (Cont'd)

The following diagrams depict generic views of the components of OptiPoint Service.

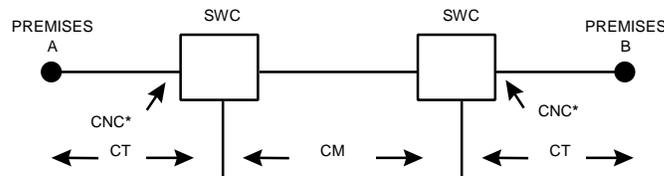
(A) OptiPoint Service with Telephone Company Provided Terminal Equipment at the Customer Premises



CT - Channel Termination
 CM - Channel Mileage
 SWC - Serving Wire Center
 CNC - Configuration Node and Cards

* WHERE APPLICABLE

(B) OptiPoint Service without Telephone Company Provided Terminal Equipment at the Customer Premises



CT - Channel Termination
 CM - Channel Mileage
 SWC - Serving Wire Center
 CNC - Configuration Node and Cards

* WHERE APPLICABLE

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Sprint SONET Ring Servicesm(A) Service Description

Sprint SONET Ring Servicesm is a dedicated high capacity network (bandwidth) designed to provide the customer reliable functionality for the transmission of voice, data, and video via a self-healing ring topology between multiple customer designated locations and Telephone Company central offices. Sprint SONET Ring Servicesm will only be offered using 2-fiber unidirectional path switch ring (UPSR) topology. The Sprint SONET Ring Servicesm network will consist of fiber optic facilities routed through local, alternative central office, internodal, and/or interoffice channel facilities that transmit DS1, DS3, STS1, STS3, OC3, OC3c, OC12 and OC12c channel services simultaneously over primary and alternative diverse paths between customer designated locations and Telephone Company central offices. Continuous monitoring of the DS1, DS3, STS1, STS3, OC3, OC3c, OC12, and/or OC12c service quality will occur. Detection of a failure within the system will result in automatic self-healing around the point of failure to ensure that the DS1, DS3, STS1, STS3, OC3, OC3c, OC12, and/or OC12c services between locations within the Sprint SONET Ring Servicesm network will continue.

Current SONET standards do not provide for asynchronous DS3 to DS1 multiplexing. An STS1 channel may be mapped for either one DS3 or 28 DS1s. However, DS1s within a DS3 are not accessible within the SONET architecture, and their performance cannot be guaranteed for this reason. When the customer requests that an OC3, OC12 or OC48 service be configured with a combination of DS3 and DS1 channels, a DS3 to DS1 multiplexing arrangement, as set forth in 7.2.8(D)(2)(a) preceding will be required.

(N)
—
(N)

Sprint SONET Ring Servicesm is provided for a period of three or five years. When ordering Sprint SONET Ring Servicesm, the customer and the Telephone Company will work cooperatively to plan, engineer, provision and manage the Sprint SONET Ring Servicesm. The customer ordering Sprint SONET Ring Servicesm must order a minimum of two nodes, one of which must be a customer node and one of which must be a central office node. The maximum number of nodes will be determined by the technical characteristics and capability of the ring configuration requested.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Sprint SONET Ring Servicesm (Cont'd)(A) Service Description (Cont'd)

Customers of Sprint SONET Ring Servicesm will need to provide the Telephone Company with a matrix detailing the configuration interface assignments desired among the nodes on the dedicated ring. The matrix must provide detail by node, by STS group. This matrix will assist the Telephone Company in ensuring that node to node channels are linked appropriately. Customers must provide suitable floor space, controlled environment, and source of non-switched suitable power to support the service.

Where the customer provides two separate entrance facility cable routes for Sprint SONET Ring Servicesm, the primary and alternate entrance facilities will be separate and will enter the customer node over such different routes. When the customer requests a connection at a customer node via two local channels and Telephone Company facilities do not exist for the second local channel, the Telephone Company may provide an equivalent second local channel via an existing alternate route. When facilities become available for the second local channel, the Telephone Company may rearrange the alternate route at any time at no charge to the customer.

(B) Service Components(1) Customer Node

Customer nodes provide ring switching capabilities at customer designated locations other than the Telephone Company central offices that are part of Sprint SONET Ring Servicesm. This rate element offers OC3, OC12, and OC48 network capacities and is provided with or without Telephone Company provided equipment. Customer node equipment provided by the customer must be compatible with that of the Telephone Company. When a customer elects to furnish its own node

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Sprint SONET Ring Servicesm (Cont'd)

(B) Service Components (Cont'd)

(1) Customer Node (Cont'd)

equipment at the customer's premises, the Telephone Company will install a cross-connect device on the Telephone Company side of the demarcation point, allowing the customer to connect their node equipment.

When the customer requests that a DS1 channel be connected to an OC48 service terminating at a Telephone Company central office, a DS3 to DS1 multiplexing arrangement, as set forth in 7.2.8(D)(2)(a) preceding may be required.

(2) Customer Configuration Interface

A customer configuration interface provides DS1, DS3, STS1, STS3, OC3c (STS3c) and OC12c (STS12c) electrical channelization and/or OC3 and OC12 optical channelization that may take place at each customer node of Sprint SONET Ring Servicesm. The customer configuration interface rate element applies for every interface capacity that originates or terminates at a customer node. However, when the customer elects to furnish its own terminal equipment at the customer node, the rate for the customer configuration interface does not apply.

(N)
 |
 (N)

(3) Central Office Node

Central office nodes provide ring switching capabilities at Telephone Company central offices that are part of Sprint SONET Ring Servicesm. This rate element offers OC3, OC12, and OC48 network capacities.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Sprint SONET Ring Servicesm (Cont'd)(B) Service Components (Cont'd)(4) Central Office Configuration Interface

A central office configuration interface provides DS1, DS3, STS1, STS3, OC3c (STS3c), and OC12c (STS12c) electrical channelization and/or OC3 and OC12 optical channelization that may take place at each central office node located on Sprint SONET Ring Servicesm. The central office configuration interface rate element applies for every interface capacity that originates or terminates at a central office node.

(5) Local Channel

The local channel provides for the communications path between a customer node and the serving wire center of the premises where the customer node is located. One local channel rate element will apply per customer designated premises for each local channel terminated.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Sprint SONET Ring Servicesm (Cont'd)(B) Service Components (Cont'd)(5) Local Channel (Cont'd)

Monthly recurring rates for local channels apply for each air mile increment of the channel. Air mileage is measured using V&H coordinates between nodes. Fractions of an airline mile are rounded up to the next mile. The minimum charge is one airline mile except when the customer designated premises and the serving wire center are located in the same Telephone Company building, or where both customer designated premises are in the same building. In those instances, the intraoffice channel charge, as set forth in (9) following, will apply in lieu of the one-mile minimum local channel charge.

(6) Alternate Central Office Channel

The alternate central office channel provides for the communications path between a customer node and an alternate central office. The primary central office node and any alternate central office node and applicable configuration interfaces must be associated with the same Sprint SONET Ring Servicesm. Monthly recurring rates for alternative central office channels apply for each air mile increment of the channel. Air mileage is measured using V&H coordinates between nodes. Fractions of an airline mile are rounded up to the next mile. The minimum charge is one airline mile.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Sprint SONET Ring Servicesm (Cont'd)(B) Service Components (Cont'd)(7) Interoffice Channel

The interoffice channel provides for the communications path between directly connected Telephone Company central offices located on a Sprint SONET Ring Servicesm. This rate element does not apply where central office nodes are adjacently connected in the same central office on the same Sprint SONET Ring Servicesm for the purposes of providing additional node capacity. Monthly recurring rates for interoffice channels apply for each air mile increment of the channel. Air mileage is measured using V&H coordinates between nodes. Fractions of an airline mile are rounded up to the next mile. The minimum charge is one airline mile.

(8) Internodal Channel

The internodal channel provides for the communications path between two directly connected customer nodes of a given Sprint SONET Ring Servicesm located (a) in the same serving wire center area, (b) in the same office park /campus environment or contiguous property located in contiguous serving wire center areas, or (c) in different serving wire center areas. Monthly recurring rates for internodal channels apply for each air mile increment of the channel. Air mileage is measured using V&H coordinates between nodes. Fractions of an airline mile are rounded up to the next mile. The minimum charge is one airline mile.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 Sprint SONET Ring Servicesm (Cont'd)(B) Service Components (Cont'd)(9) Intraoffice Channel

The intraoffice channel provides for the communications path when the customer designated premises and the serving wire center are located in the same Telephone Company building, or where both customer designated premises are in the same building. Flat rated monthly recurring rates apply for each intraoffice channel.

(10) Central Office Node Configuration Interface Capacity Reallocation

Central office configuration interface capacity reallocation allows the customer to request that the Telephone Company reallocate central office configuration interfaces at each central office node subsequent to the initial service installation.

(11) Customer Node Configuration Interface Capacity Reallocation

Customer node configuration interface capacity reallocation allows the customer to request that the Telephone Company reallocate customer node configuration interfaces at each Telephone Company provided customer node subsequent to the initial service installation.

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7. Special Access Service (Cont'd)

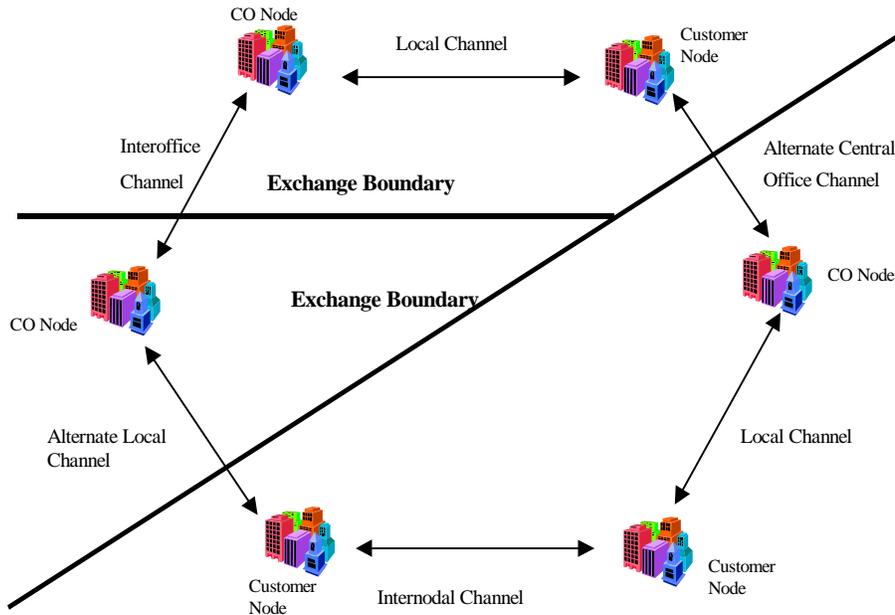
7.2 Service Descriptions (Cont'd)

7.2.14 Sprint SONET Ring Servicesm (Cont'd)

(B) Service Components (Cont'd)

The following diagrams depict generic views of Sprint SONET Ring Servicesm:

Six-node Sprint SONET Ring Servicesm



A customer configuration interface or company configuration interface may apply at each node. The rate element applies for capacity that originates or terminates at a node. Configuration interfaces provide for electrical (DS1, DS3, STS1, STS3, OC3c (STS3c), OC12c (STS12c)) or optical (OC3 and OC12) channelization.

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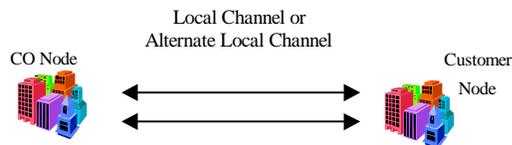
7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Sprint SONET Ring Servicesm (Cont'd)

(B) Service Components (Cont'd)

Two-node Sprint SONET Ring Servicesm



A customer configuration interface or company configuration interface may apply at each node. The rate element applies for capacity that originates or terminates at a node. Configuration interfaces provide for electrical (DS1, DS3, STS1, STS3, OC3c (STS3c), OC12c (STS12c)) or optical (OC3 and OC12) channelization.

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

Network Channel Codes are comprised of four characters. The first and second characters describe the technical specifications package within the service type. The third and fourth characters describe and specify options associated with the service. The Telephone Company abides by nationally accepted standards in its use of Network Channel Codes and are available from the Telephone Company upon request.

Channel Interface Codes describe the electrical characteristics of the interface at the customer's premises. Compatible Channel Interface codes for the requested service must be specified by the customer when ordering the services. Channel Interface codes for each category of Special Access Service can be found in the Technical Reference Publications set forth in 7.2 preceding.

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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

<u>Code</u>	<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
CT	-	Centrex Tie Trunk Termination
CM	-	SONET ADM 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
DC	-	direct current or voltage
	- 1	monitoring interface with series RC combination (McCulloh format)
	- 2	Telephone Company energized alarm channel

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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>
DS	-	digital hierarchy interface
	- 15	1.544 Mbps (DS1) format plus D4
	- 15B	1.544 Mbps (DS1) format plus D4 with 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 format
	- 15K	1.544 Mbps format plus extended framing format
	- 15L	1.544 Mbps (DS1) with SF signaling
	- 15S	1.544 Mbps using B8ZS line code and extended framing format
	- 44	44.736 Mbps (DS3)
	- 44L	44.736 Mbps (DS3) with SF signaling

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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>
DU	-	digital access interface
	- 24	2.4 kbps
	- 48	4.8 kbps
	- 56	56.0 kbps
	- 64	64.0 kbps
	- 96	9.6 kbps
	- A	1.544 Mbps format
	- B	1.544 Mbps format plus D4
	- C	1.544 Mbps format plus extended framing format
	- D	1.544 Mbps format plus D4 with B8ZS clear channel capability.
	- S	1.544 Mbps using B8ZS line code and extended framing format
DX	-	duplex signaling interface at customer's point of termination
DY	-	duplex signaling interface at customer's end user's point of termination

(D)
 (D)
 (T)

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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>
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
FC	-	Fiber Optic Interface

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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>
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
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 port open end
LO	-	loop start loop signaling - open end function by customer or customer's end user
LR	-	20 Hz automatic ringdown interface at customer POT with Telephone Company provided PLAR
LS	-	loop start loop signaling - closed end function by customer or customer's end user
NO	-	no signaling interface, transmission only
PG	-	program transmission - no dc signaling
	- 0	nominal frequency from 300 to 2500 Hz
	- 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*

* 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>
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
SM	-	SONET Terminal Multiplexer
SN	-	SONET Terminal Multiplexer
SO	-	SONET Optical
TF	-	telephotograph interface
TT	-	teletypewriter interface at either customer POT or customer's end user POT
TT	- 2	20.0 milliamperes
	- 6	62.5 milliamperes
TV	-	television interface
	- 1	combined (diplexed) video and one audio signal
	- 2	combined (diplexed) video and two audio signals
	- 5	video plus one (or two) audio 5 kHz signal(s) or one (or two) two wire
	- 15	video plus one (or two) audio 15 kHz signal(s)

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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
1200	4
135	5
75	6
124	7
Variable	8
100	9

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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

Customers selecting the multiplexed four-wire DSX-1 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 codes and speed options indicated below:

<u>Interface Code and Speed Option</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>
4DS9-15	1.544	DS1
4DS6-44	44.736	DS3
2SMF, 2SOF, 4SMF, 4SOF	155.52	OC3
2SMF 2SOF, 4SMF, 4SNF, 4SOF	622.08	OC12
2SMF, 2SOF, 2SNF	2488.32	OC48

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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, DA1, etc.) and the network channel codes that are used for various administrative purposes.

	<u>Service Designator Code</u>	<u>Network Channel Code</u>
Voice	VGC	LQ
	VG1	LB
	VG2	LC
	VG3	LD
	VG4	LE
	VG5	LF
	VG6	LG
	VG7	LH
	VG8	LJ
	VG9	LK
	VG10	LN
	VG11	LP
	VG12	LR

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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 Code</u>	<u>Network Channel Code</u>
Audio	APC	PQ
	AP0	PD
	AP1	PE
	AP2	PF
	AP3	PJ
	AP4	PK
Video	TVC	TQ
	TV1	TV
	TV2	TW
Digital Data	DA1	XA
	DA2	XB
	DA3	XG
	DA4	XH
High Capacity	HCO	HS
	HC1	HC
	HC3	HF
	OC3	OB
	OC12	OD
	OC48	OF

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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) Reserved For Future Use

(B) Voice Grade

Compatible CIs		Compatible CIs		Compatible CIs	
4AB2	4AB2				
4AB2	4AC2	4AH5-B	6DA2	4AH6-D	2DY2
4AB3	4AC2	4AH5-B	4DA2	4AH6-C	9DY2
4AB2	2AC2	4AH5-B	2DA2	4AH6-C	9DY3
4AB3	2AC2			4AH6-C	6DY2
2AB2	2AC2	4AH6-D	4DE2	4AH6-C	6DY3
2AB3	2AC2	4AH6-C	4DE2	4AH6-C	4DY2
4AB2	4SF2	4AH5-B	4DE2	4AH6-C	2DY2
4AB3	4SF2	4AH6-D	2DE2	4AH5-B	9DY2
4AC2	4AC2	4AH6-C	2DE2	4AH5-B	9DY3
4AC2	2AC2	4AH5-B	2DE2	4AH5-B	6DY2
4AH6-D	4AC2			4AH5-B	6DY3
4AH6-D	2AC2	4AH6-D	4DX3	4AH5-B	4DY2
4AH6-C	4AC2	4AH6-C	4DX3	4AH5-B	2DY2
4AH6-C	2AC2	4AH5-B	4DX3		
4AH5-B	4AC2	4AH6-D	4DX2	4AH6-D	9EA2
4AH5-B	2AC2	4AH6-C	4DX2	4AH6-D	9EA3
		4AH5-B	4DX2	4AH6-D	6EA2-E
4AH6-D	2CT3			4AH6-D	6EA2-M
4AH6-C	2CT3	4AH6-D	9DY2	4AH6-D	4EA2-E
4AH5-B	2CT3	4AH6-D	9DY3	4AH6-D	4EA2-M
4AH6-D	6DA2	4AH6-D	6DY2	4AH6-C	9EA2
4AH6-D	4DA2	4AH6-D	6DY3	4AH6-C	9EA3
4AH6-D	2DA2	4AH6-D	4DY2	4AH6-C	6EA2-E
4AH6-C	6DA2				
4AH6-C	4DA2				
4AH6-C	2DA2				

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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) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4AH6-C	6EA2-M	4AH6-D	6GS2	4AH6-D	2LO2
4AH6-C	4EA2-E	4AH6-D	4GS2	4AH6-C	2LO3
4AH6-C	4EA2-M	4AH6-D	2GS3	4AH6-C	2LO2
4AH5-B	9EA2	4AH6-D	2GS2	4AH5-B	2LO3
4AH5-B	9EA3	4AH6-C	6GS2	4AH5-B	2LO2
4AH5-B	6EA2-E	4AH6-C	4GS2		
4AH5-B	6EA2-M	4AH6-C	2GS3	4AH6-D	4LR2
4AH5-B	4EA2-E	4AH6-C	2GS2	4AH6-D	2LR2
4AH5-B	4EA2-M	4AH5-B	6GS2	4AH6-C	4LR2
		4AH5-B	4GS2	4AH6-C	2LR2
4AH6-D	8EB2-E	4AH5-B	2GS3	4AH5-B	4LR2
4AH6-D	8EB2-M	4AH5-B	2GS2	4AH5-B	2LR2
4AH6-D	6EB2-E				
4AH6-D	6EB2-M	4AH6-D	2LA2	4AH6-D	6LS2
4AH6-C	8EB2-E	4AH6-C	2LA2	4AH6-D	4LS2
4AH6-C	8EB2-M	4AH5-B	2LA2	4AH6-D	2LS2
4AH6-C	6EB2-E			4AH6-D	2LS3
4AH6-C	6EB2-M	4AH6-D	2LB2	4AH6-C	6LS2
4AH5-B	8EB2-E	4AH6-C	2LB2	4AH6-C	4LS2
4AH5-B	8EB2-M	4AH5-B	2LB2	4AH6-C	2LS2
4AH5-B	6EB2-E			4AH6-C	2LS3
4AH5-B	6EB2-M	4AH6-D	2LC2	4AH5-B	6LS2
		4AH6-C	2LC2	4AH5-B	4LS2
4AH6-D	2GO2	4AH5-B	2LC2	4AH5-B	2LS2
4AH6-D	2GO3			4AH5-B	2LS3
4AH6-C	2GO2	4AH6-D	2LO3		
4AH6-C	2GO3				
4AH5-B	2GO2				
4AH5-B	2GO3				

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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) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4AH6-D	4NO2	4AH6-D	4TF2	2CT3	6EB2-E
4AH6-D	2NO2	4AH6-D	2TF2	2CT3	6EB2-M
4AH6-C	4NO2	4AH6-C	4TF2	2CT3	6EB3-E
4AH6-C	2NO2	4AH6-C	2TF2		
4AH5-B	4NO2	4AH5-B	4TF2	2CT3	8EB2-E
4AH5-B	2NO2	4AH5-B	2TF2	2CT3	8EB2-M
		2CT3	2CT3		
4AH6-D	4PR2	2CT3	4DS9-*	2CT3	8EC2
4AH6-D	2PR2				
4AH6-C	4PR2	2CT3	6DX2	2CT	4SF2
4AH6-C	2PR2	CT3	4DX2	2CT3	4SF3
4AH5-B	4PR2	2CT3	4DX3		
4AH5-B	2PR2				
4AH6-D	4RV2-T	2CT3	9DY3		
4AH6-D	2RV2-T	2CT3	6DY3		
4AH6-C	4RV2-T	2CT3	9DY2		
4AH6-C	2RV2-T	2CT3	6DY2		
4AH5-B	4RV2-T	2CT3	4DY2		
4AH5-B	2RV2-T	2CT3	2DY2		
4AH6-D	4SF2	2CT3	9EA3		
4AH6-C	4SF2	2CT3	9EA2		
4AH5-B	4SF2	2CT3	6EA2-E		
4AH6-D	4SF3	2CT3	6EA2-M		
4AH6-C	4SF3	2CT3	4EA2-E		
4AH5-B	4SF3	2CT3	4EA2-M		

* 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) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
		4DS9-*	4AC2
		4DS9-*	2AC2
		4DS9-*	6DA2
		4DS9-*	4DA2
		4DS9-*	2DA2
6DA2	6DA2		
6DA2	4DA2		
6DA2	2DA2	4DS9-*	4DE2
4DA2	4DA2	4DS9-*	2DE2
4DA2	2DA2		
2DA2	2DA2	4DS9-*	4DX3
4DB2	6DA2	4DS9-*	4DX2
4DB2	4DA2		
4DB2	2DA2	4DS9-*	9DY3
2DB3	2DA2	4DS9-*	9DY2
2DB2	2DA2	4DS9-*	6DY3
4DB2	4DB2	4DS9-*	6DY2
4DB2	4NO2	4DS9-*	4DY2
4DB2	2NO2	4DS9-*	2DY2
2DB2	2NO2		
		4DS9-*	9EA2
4DB2	4PR2	4DS9-*	9EA3
4DB2	2PR2	4DS9-*	6EA2-E
2DB2	2PR2	4DS9-*	6EA2-M
		4DS9-*	4EA2-E
4DD3	4DE2	4DS9-*	4EA2-M
4DD3	2DE2		

* 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) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
4DS9-*	8EB2-E	4DS9-*	4NO2	4DX3	9DY2
4DS9-*	8EB2-M	4DS9-*	2NO2	4DX2	6DY3
4DS9-*	6EB2-E			4DX3	6DY3
4DS9-*	6EB2-M	4DS9-*	4PR2	4DX2	6DY2
		4DS9-*	2PR2	4DX3	6DY2
4DS9-*	2GO2			4DX2	4DY2
4DS9-*	2G03	4DS9-*	4RV2-T	4DX3	4DY2
4DS9-*	6GS2	4DS9-*	2RV2-T	4DX2	2DY2
4DS9-*	4GS2			4DX3	2DY2
4DS9-*	2GS2	4DS9-*	4SF2		
4DS9-*	2GS3	4DS9-*	4SF3	6DX2	9EA3
				6DX2	9EA2
4DS9-*	2LA2	4DS9-*	4TF2	6DX2	6EA2-E
		4DS9-*	2TF2	6DX2	6EA2-M
4DS9-*	2LB2			6DX2	4EA2-E
		4DX2	4DX2	6DX2	4EA2-M
4DS9-*	2LC2	4DX3	4DX2	4DX2	9EA2
		4DX3	4DX3	4DX3	9EA2
4DS9-*	2LO2			4DX2	9EA3
4DS9-*	2LO3	6DX2	9DY3	4DX3	9EA3
		6DX2	9DY2	4DX2	6EA2-E
4DS9-*	4LR2	6DX2	6DY3	4DX3	6EA2-E
4DS9-*	2LR2	6DX2	6DY2	4DX2	6EA2-M
		6DX2	4DY2	4DX3	6EA2-M
4DS9-*	6LS2	6DX2	2DY2	4DX2	4EA2-E
4DS9-*	4LS2	4DX2	9DY3	4DX3	4EA2-E
4DS9-*	2LS2	4DX3	9DY3	4DX2	4EA2-M
4DS9-*	2LS3	4DX2	9DY2	4DX3	4EA2-M

* 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) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6DX2	8EB2-E	4DX2	6LS2	9DY2	6DY3
6DX2	8EB2-M	4DX3	6LS2	9DY3	4DY2
6DX2	6EB2-E	4DX3	4LS2	9DY2	4DY2
6DX2	6EB2-M	4DX2	4LS2	9DY2	2DY2
4DX2	8EB2-E	4DX3	2LS3	9DY3	2DY2
4DX2	8EB2-M	4DX2	2LS3	6DY3	6DY3
4DX3	8EB2-E	4DX3	2LS2	6DY3	6DY2
4DX3	8EB2-M	4DX2	2LS2	6DY2	6DY2
4DX2	6EB2-E	2DX3	2LS2	6DY3	4DY2
4DX2	6EB2-M	2DX3	2LS3	6DY3	2DY2
4DX3	6EB2-E			6DY2	4DY2
4DX3	6EB2-M	4DX3	4RV2-T	6DY2	2DY2
		4DX2	4RV2-T	4DY2	2DY2
4DX2	2LA2	4DX3	2RV2-T	4DY2	4DY2
4DX3	2LA2	4DX2	2RV2-T	2DY2	2DY2
2DX3	2LA2			6EA2-E	4AC2
		6DX2	4SF2	6EA2-M	4AC2
4DX2	2LB2	4DX2	4SF2	6EA2-E	2AC2
4DX3	2LB2	4DX3	4SF2	6EA2-M	2AC2
2DX3	2LB2	4DX2	4SF3		
		4DX3	4SF3	9EA2	9DY3
4DX2	2LC2			9EA2	9DY2
4DX3	2LC2	9DY3	9DY3	9EA2	6DY3
2DX3	2LC2	9DY3	9DY2	9EA2	6DY2
		9DY2	9DY2	9EA2	4DY2
4DX2	2LO3	9DY3	6DY3	9EA2	2DY2
4DX3	2LO3	9DY3	6DY2	9EA3	9DY3
2DX3	2LO3	9DY2	6DY2		

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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) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
9EA3	9DY2	4EA2-M	9DY2	4EA3-E	9EA2
9EA3	6DY3	4EA2-M	6DY3	4EA3-E	9EA3
9EA3	6DY2	4EA2-M	6DY2	4EA2-M	4EA2-M
9EA3	4DY2	4EA2-M	4DY2		
9EA3	2DY2	4EA2-M	2DY2	9EA2	8EB2-E
6EA2-E	9DY3			9EA2	8EB2-M
6EA2-E	9DY2	9EA2	9EA2	9EA2	6EB2-E
6EA2-E	6DY3	9EA2	9EA3	9EA2	6EB2-M
6EA2-E	6DY2	9EA2	6EA2-E	9EA3	9EB2-E
6EA2-E	4DY2	9EA2	6EA2-M	9EA3	8EB2-M
6EA2-E	2DY2	9EA2	4EA2-E	9EA3	6EB2-E
6EA2-M	9DY3	9EA2	4EA2-M	9EA3	6EB2-M
6EA2-M	9DY2	9EA3	9EA3	6EA2-E	8EB2-E
6EA2-M	6DY3	9EA3	6EA2-E	6EA2-E	8EB2-M
6EA2-M	6DY2	9EA3	6EA2-M	6EA2-E	6EB2-E
6EA2-M	4DY2	9EA3	4EA2-E	6EA2-E	6EB2-M
6EA2-M	2DY2	9EA3	4EA2-M	6EA2-M	8EB2-E
4EA2-E	9DY3	6EA2-E	6EA2-E	6EA2-M	8EB2-M
4EA2-E	9DY2	6EA2-E	6EA2-M	6EA2-M	6EB2-E
4EA3-E	9DY3	6EA2-M	6EA2-M	6EA2-M	6EB2-M
4EA3-E	9DY2	6EA2-E	4EA2-E	4EA2-E	8EB2-E
4EA3-E	6DY3	6EA2-E	4EA2-M	4EA2-E	8EB2-M
4EA3-E	6DY2	6EA2-M	4EA2-E	4EA3-E	9EB2-E
4EA3-E	4DY2	6EA2-M	4EA2-M	4EA3-E	8EB2-M
4EA3-E	2DY2	4EA2-E	4EA2-E	4EA2-E	6EB2-E
4EA2-E	6DY3	4EA3-E	6EA2-E	4EA2-E	6EB2-M
4EA2-E	6DY2	4EA3-E	6EA2-M	4EA3-E	6EB2-E
4EA2-E	4DY2	4EA3-E	4EA2-E	4EA3-E	6EB2-M
4EA2-E	2DY2	4EA3-E	4EA2-M	4EA2-M	8EB2-E
4EA2-M	9DY3	4EA2-E	4EA2-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)

(B) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4EA2-M	8EB2-M	9EA3	4SF2	6EB3-E	9DY2
4EA2-M	6EB2-E	9EA2	4SF2	6EB3-E	9DY3
4EA2-M	6EB2-M	6EA2-E	4SF3	6EB2-E	6DY2
		6EA2-M	4SF3	6EB3-E	6DY2
6EA2-E	2LA2	6EA2-E	4SF2	6EB2-E	6DY3
6EA2-M	2LA2	6EA2-M	4SF2	6EB3-E	6DY3
		4EA3-E	4SF2	6EB2-E	4DY2
6EA2-E	2LB2	EA2-E	4SF2	6EB3-E	2DY2
6EA2-M	2LB2	4EA2-M	4SF2	6EB3-E	4DY2
				6EB2-M	9DY2
6EA2-E	2LC2	8EB2-E	4AC2	6EB2-M	9DY3
6EA2-M	2LC2	8EB2-M	4AC2	6EB2-M	6DY2
		8EB2-E	2AC2	6EB2-M	6DY3
6EA2-E	2LO3	8EB2-M	2AC2	6EB2-M	4DY2
6EA2-M	LO3			6EB2-E	2DY2
		8EB2-E	9DY3	6EB2-M	2DY2
6EA2-E	6LS2	8EB2-E	9DY2		
6EA2-M	6LS2	8EB2-E	6DY3	6EB3-E	9EA2
6EA2-E	4LS2	8EB2-E	6DY2	6EB3-E	9EA3
6EA2-M	4LS2	8EB2-E	4DY2	6EB3-E	6EA2-E
6EA2-E	2LS2	8EB2-E	2DY2	6EB3-E	6EA2-M
6EA2-M	2LS2	8EB2-M	9DY3	6EB3-E	4EA2-E
6EA2-E	2LS3	8EB2-M	9DY2	6EB3-E	4EA2-M
6EA2-M	2LS3	8EB2-M	6DY3		
		8EB2-M	6DY2	8EB2-E	8EB2-E
6EA2-E	4RV2-T	8EB2-M	4DY2	8EB2-E	8EB2-M
6EA2-M	4RV2-T	8EB2-M	2DY2	8EB2-M	8EB2-M
6EA2-E	2RV2-T	6EB2-E	9DY2	8EB2-E	6EB2-E
6EA2-M	2RV2-T	6EB2-E	9DY3	8EB2-E	6EB2-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)(B) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
8EB2-M	6EB2-E	8EB2-E	4RV2-T	8EC2	8EB2-M
8EB2-M	6EB2-M	8EB2-M	4RV2-T	8EC2	6EB2-E
6EB2-E	6EB2-E	8EB2-E	2RV2-T	8EC2	6EB2-M
6EB2-E	6EB2-M	8EB2-M	2RV2-T		
6EB3-E	8EB2-E			8EC2	4SF2
6EB3-E	8EB2-M	8EB2-E	4SF2	6EX2-B	2GO3
6EB2-M	6EB2-M	8EB2-M	4SF2	6EX2-A	6GS2
		8EB2-E	4SF3	6EX2-A	4GS2
8EB2-E	2LA2	8EB2-M	4SF3	6EX2-A	2GS2
8EB2-M	2LA2	6EB3-E	4SF2	6EX2-A	2GS3
		6EB2-E	4SF2		
8EB2-E	2LB2	6EB2-M	4SF2	6EX2-B	2LA2
8EB2-M	2LB2				
		8EC2	9DY2	6EX2-B	2LB2
8EB2-E	2LC2	8EC2	9DY3		
8EB2-M	2LC2	8EC2	6DY2	6EX2-B	2LC2
		8EC2	6DY3		
8EB2-E	2LO3	8EC2	4DY2	6EX2-B	2LO2
8EB2-M	2LO3	8EC2	2DY2	6EX2-B	2LO3
8EB2-E	6LS2	8EC2	9EA2	6EX2-B	4LR2
8EB2-M	6LS2	8EC2	9EA3	6EX2-B	2LR2
8EB2-E	4LS2	8EC2	6EA2-E		
8EB2-M	4LS2	8EC2	6EA2-M	6EX2-A	6LS2
8EB2-E	2LS2	8EC2	4EA2-E	6EX2-A	4LS2
8EB2-M	2LS2	8EC2	4EA2-M	6EX2-A	2LS2
8EB2-E	2LS3			6EX2-A	2LS3
8EB2-M	2LS3	8EC2	8EB2-E		

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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) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6EX2-A	4SF2	6LO2	6LS2	4LR2	4SF2
6EX2-B	4SF2	6LO2	4LS2	4LR3	4SF2
		6LO2	2LS2		
6GO2	6GS2	6LO2	2LS3	6LS2	2LA2
6GO2	4GS2	4LO2	6LS2	4LS2	2LA2
6GO2	2GS2	4LO2	4LS2	4LS3	2LA2
6GO2	2GS3	4LO3	6LS2	2LS2	2LA2
4GO2	6GS2	4LO3	4LS2	2LS3	2LA2
4GO3	6GS2	4LO3	2LS3		
4GO2	4GS2	4LO3	2LS2	6LS2	2LB2
4GO3	4GS2	4LO2	2LS2	4LS2	2LB2
4GO2	2GS2	4LO2	2LS3	4LS3	2LB2
4GO2	2GS3	2LO3	2LS3	2LS2	2LB2
4GO3	2GS2	2LO3	2LS2	2LS3	2LB2
4GO3	2GS3	2LO2	2LS2		
2GO2	2GS2	2LO2	2LS3	6LS2	2LC2
2GO3	2GS2			4LS2	2LC2
2GO2	2GS3	6LO2	4SF2	4LS3	2LC2
2GO3	2GS3	4LO2	SF2	2LS2	2LC2
		4LO3	4SF2	2LS3	2LC2
6GO2	4SF2				
4GO2	4SF2	4LR3	4LR2	6LS2	2LO3
4GO3	4SF2	4LR3	2LR2	6LS2	2LO2
		4LR2	4LR2	4LS2	2LO2
6GS2	2GO2	4LR2	2LR2	4LS2	2LO3
4GS2	4GO2	2LR2	2LR2	4LS3	2LO2
4GS3	2GO2	2LR3	2LR2	4LS3	2LO3
4GS2	2GO3				

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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) Voice Grade (Cont'd)

Compatible CIs		Compatible CIs		Compatible CIs	
6LS2	4SF2	4SF3	9DY2	4SF3	2LA2
4LS3	4SF2	4SF2	9DY3		
		4SF3	6DY3	4SF2	2LB2
4NO2	6DA2	4SF2	6DY2	4SF3	2LB2
4NO2	4DA2	4SF2	6DY3		
4NO2	2DA2	4SF3	6DY2	4SF2	2LC2
2NO2	6DA2	4SF2	4DY2	4SF3	2LC2
2NO2	4DA2	4SF3	4DY2		
2NO2	2DA2	4SF3	2DY2	4SF2	2LO3
4NO2	4DE2	4SF2	2DY2	4SF3	2LO3
4NO2	2DE2				
4NO2	4NO2	4SF3	9EA2	4SF2	2LR2
4NO2	2NO2	4SF3	9EA3	4SF3	4LR2
2NO2	2NO2	4SF3	4EA2-E	4SF3	2LR2
2NO3	2NO2	4SF3	4EA2-M		
				4SF3	6LS2
2NO3	2PR2	4SF3	6EB2-E	4SF2	4LS2
		4SF3	6EB2-M	4SF3	4LS2
4RV2-0	4RV2-T	4SF2	2GO3	4SF2	2LS2
4RV2-0	2RV2-T	4SF3	6GS2	4SF2	2LS3
2RV2-0	2RV2-T	4SF2	6GS2	4SF3	2LS2
		4SF2	4GS2	4SF3	2LS3
4RV2-0	4SF2	4SF3	4GS2		
		4SF2	2GS2	4SF3	4RV2-T
4SF2	4AC2	4SF2	2GS3	4SF2	4RV2-T
4SF2	2AC2	4SF3	2GS2	4SF2	2RV2-T
		4SF3	2GS3	4SF3	2RV2-T
4SF3	9DY3				
4SF2	9DY2	4SF2	2LA2	4SF3	4SF3

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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) Voice Grade (Cont'd)

Compatible CIs

4SF3 4SF2
4SF2 4SF2

4TF2 4TF2
4TF2 2TF2
2TF3 2TF2

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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) Program Audio

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH5-B	2PG1-0	4AH6-D	2PG1-0		
4AH5-B**	2PG1-3	4AH6-D**	2PG1-3	4DS9+-15F	2PG2-5
4AH5-B**	2PG1-5	4AH6-D**	2PG1-5	4DS9+-15G	2PG2-8
4AH5-B**	2PG1-8	4AH6-D**	2PG1-8	4DS9+-15H	2PG2-1
4AH5-B	2PG2-0	4AH6-D	2PG2-0	2PG2-0	2PG1-0
				2PG2-0	2PG2-0
4AH5-B**	2PG2-3	4AH6-D**	2PG2-3	2PG2-1	2PG1-1
4AH5-B**	2PG2-5	4AH6-D**	2PG2-5	2PG2-1	2PG2-1
4AH5-B**	2PG2-8	4AH6-D**	2PG2-8	2PG2-3	2PG1-3
4AH6-C	2PG1-0	4DS9-15E	2PG1-0		
4AH6-C**	2PG1-3	4DS9-15E+	2PG1-3	2PG2-3	2PG2-3
4AH6-C**	2PG1-5	4DS9-15F+	2PG1-5	2PG2-5	2PG1-5
4AH6-C**	2PG1-8	4DS9-15G+	2PG1-8	2PG2-5	2PG2-5
4AH6-C	2PG2-0				
4AH6-C**	2PG2-3	4DS9-15H+	2PG1-1	2PG2-8	2PG1-8
		4DS9-15E	2PG2-0		
4AH6-C**	2PG2-5	4DS9-15E+	2PG2-3	2PG2-8	2PG2-8
4AH6-C**	2PG2-8				

+ Compatible only with a multiplexed 4-wire DSX interface option at the Customer's designated premises and where the Customer provides subsequent system and channel assignment data.

** Compatible only with a multiplexed 4-wire High Capacity Analog interface option at the Customer's designated premises and where the Customer provides subsequent system and channel assignment data.

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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)

(D) Video

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
2TV6-1	4TV6-15	4TV6-5	4TV6-5	6TV6-5	6TV6-5
2TV6-1	4TV7-15	4TV6-5	4TV7-5	6TV6-5	6TV7-5
2TV6-2	6TV6-15	4TV6-15	4TV6-15	6TV6-15	6TV6-15
2TV6-2	6TV7-15	4TV6-15	4TV7-15	6TV6-15	6TV7-15
2TV7-1	4TV6-15	4TV7-15	4TV6-15	6TV7-5	6TV6-5
2TV7-1	4TV7-15	4TV7-15	4TV7-15	6TV7-5	6TV7-5
2TV7-2	6TV6-15	4TV7-5	4TV6-5	6TV7-15	6TV6-15
2TV7-2	6TV7-15	4TV7-5	4TV7-5	6TV7-15	6TV7-15

(E) Reserved For Future Use

(F) Reserved For Future Use

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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) Digital Data

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS9-15	4DS9-15+	4DS9-15	6DU5-24	4DU5-48	4DU5-48
4DS9-15	4DU5-19	4DS9-15	6DU5-64	4DU5-56	4DU5-56
4DS9-15	4DU5-24	4DS8-15	6DU5-48	4DU5-96	4DU5-96
4DS9-15	4DU5-48	4DS8-15	6DU5-56	6DU5-24	6DU5-24
4DS9-15	4DU5-56	4DS8-15	6DU5-96	6DU5-48	6DU5-48
4DS9-15	4DU5-64	4DU5-19	4DU5-19	6DU5-56	6DU5-56
4DS9-15	4DU5-96	4DU5-24	4DU5-24	6DU5-96	6DU5-96

(H) High Capacity

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
2SMF-***	2SMF-***	4DS9-15J	4DS9-15J
2SOF-***	2SOF-***	4DS9-15K	4DS9-15K
2SNF-***	2SNF-***	4DS9-15S	4DS9-15S
4DS6-44	4DS6-44	4DS9-15	6DU8-B
4DS6-44	6DU8-A,B or C	4DS9-15	4DU8-B
4DS6-44	4DU8-A,B or C	4DS9-15J	6DU8-A
4DS6-15	4DS9-15++	4DS9-15J	4DU8-A
4DS9-15K	4DU8-C	4DS9-15K	6DU8-B
4DS9-15S	4DU9-S	4DS9-15K	4DU8-B
		4DS9-15K	6DU8-C

+ Available only as a cross connect of two digital channels at appropriate digital speeds at a Telephone Company Hub.

++ Available also as a cross connect of two individual channels of 1.544 Mbps facilities at a Telephone Company Hub.

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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)

(H) <u>High Capacity</u> (Cont'd)			
<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4SMF-***	4SMF-***	4FCF-***	4DS6.44
4SNF-***	4SNF-***	4SOF-	4DS6.44
4SOF-***	4SOF-***	4SMF-***	4DS6.44
2FCF-***	4DU9-***	2FCF-***	4QA6-31
2SOF-	4DU9-***	2SOF-	4QA6-31
2SMF-***	4DU9-***	2SMF-***	4QA6-31
2FCF-***	4DS9-15	4FCF-***	4QA6-31
2SOF-	4DS9-15	4SOF-	4QA6-31
2SMF-***	4DS9-15	4SMF-***	4QA6-31
2FCF-***	2FCF-***	2FCF-***	4QA9-10
2SOF-	2FCF-***	2SOF-	4QA9-10
2SMF-***	2FCF-***	2SMF-***	4QA9-10
2FCF-***	4DS6.44	4FCF-***	4QA9-10
2SOF-	4DS6.44	4SOF-	4QA9-10
2SMF-***	4DS6.44	4SMF-***	4QA9-10
4FCF-***	4DU9-***	2FCF-***	4QB9-11
4SOF-	4DU9-***	2SOF-	4QB9-11
4SMF-***	4DU9-***	2SMF-***	4QB9-11
4FCF-***	4DS9-15	4FCF-***	4QB9-11
4SOF-	4DS9-15	4SOF-	4QB9-11
4SMF-***	4DS9-15	4SMF-***	4QB9-11
4FCF-***	2FCF-**	2FCF-***	4CS6-31
4SOF-	2FCF-**	2SOF-	4CS6-31
4SMF-***	2FCF-**	2SMF-***	4CS6-31

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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)

(H) <u>High Capacity</u> (Cont'd)			
<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4FCF-***	4CS6-31	2FCF-***	2FCF-***
4SOF-	4CS6-31	2SOF-	2FCF-***
4SMF-***	4CS6-31	2SMF-***	2FCF-***
2FCF-***	4CS9-11	4FCF-***	2FCF-***
2SOF-	4CS9-11	4SOF-	2FCF-***
2SMF-***	4CS9-11	4SMF-***	2FCF-***
4FCF-***	4CS9-11	2FCF-***	4FCF-***
4SOF-	4CS9-11	2SOF-	4FCF-***
4SMF-***	4CS9-11	2SMF-***	4FCF-***
2FCF-***	4CS9-10	4FCF-***	4FCF-***
2SOF-	4CS9-10	4SOF-	4FCF-***
2SMF-***	4CS9-10	4SMF-***	4FCF-***
4FCF-***	4CS9-10	2FCF-***	4CS6-33
4SOF-	4CS9-10	4FCF-***	4CS6-33
4SMF-***	4CS9-10	4DS6-44A	4CS6-33
2FCF-***	4DS6-44A	4DS6-44I	4CS6-33
2SOF-	4DS6-44A	4DS6-44	4CS6-33
2SMF-***	4DS6-44A	2SMF-***	4CS6-33
4FCF-***	4DS6-44A	4SMF-***	4CS6-33
4SOF-	4DS6-44A	2SOF-	4CS6-33
4SMF-***	4DS6-44A	4SOF-	4CS6-33
2FCF-***	4DS6-44I	2FCF-***	4QA6-33
2SOF-	4DS6-44I	4FCF-***	4QA6-33
2SMF-***	4DS6-44I	4DS6-44A	4QA6-33
4FCF-***	4DS6-44I	4DS6-44I	4QA6-33
4SOF-	4DS6-44I	4DS6-44	4QA6-33
4SMF-***	4DS6-44I	2SMF-***	4QA6-33

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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)(H) High Capacity (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4SMF-***	4QA6-33	2FCF-***	4QB6-33
2SOF-	4QA6-33	4FCF-***	4QB6-33
4SOF-	4QA6-33	4DS6-44A	4QB6-33
2FCF-***	4QA6-30	4DS6-44I	4QB6-33
4FCF-***	4QA6-30	4DS6-44	4QB6-33
4DS6-44A	4QA6-30	2SMF-***	4QB6-33
4DS6-44I	4QA6-30	4SMF-***	4QB6-33
4DS6-44	4QA6-30	2SOF	4QB6-33
2SMF-***	4QA6-30	4SOF	4QB6-33
4SMF-***	4QA6-30	2FCF-***	4QBF-LL
2SOF	4QA6-30	4FCF-***	4QBF-LL
4SOF	4QA6-30	4DS6-44A	4QBF-LL
2FCF-***	4QB6-30	4DS6-44I	4QBF-LL
4FCF-***	4QB6-30	4DS6-44	4QBF-LL
4DS6-44A	4QB6-30	2SMF-***	4QBF-LL
4DS6-44I	4QB6-30	4SMF-***	4QBF-LL
4DS6-44	4QB6-30	2SOF	4QBF-LL
2SMF-***	4QB6-30	4SOF	4QBF-LL
4SMF-***	4QB6-30		
2SOF	4QB6-30		
4SOF	4QB6-30		

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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)

(H) <u>High Capacity</u> (Cont'd)			
<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS9-1S	4DJ9-***	2FCF-***	4CS6-31R
4DS9-1S	4CS6-31	2FCF-***	4CS9-11R
4DS9-1S	4CS6-31R	2FCF-***	4CS9-10R
4DS9-1S	4CS9-11	4DS9-15S	4CS6-31
4DS9-1S	4CS9-11R	4DS9-15S	4CS6-31R
4DS9-1S	4CS9-10	4DS9-15S	4CS9-11
4DS9-1S	4CS9-10R	4DS9-15S	4CS9-11R
4DS9-1S	4QA6-31	4DS9-15S	4CS9-10
4DS9-1S	4QA9-10	4DS9-15S	4CS9-10R
4DS9-1S	4QB9-11	4DS9-15S	4QA6-31
4DS9-1S	4DU9-1S	4DS9-15S	4QA9-10
4DS9-1S	4DU9-1SN	4DS9-15S	4QB9-11
4DS9-1S	4DU9-1SX	4DS9-15S	4DU9-S
4DS6-44	4DJ9-***	4DS9-15S	4DU9-SN
4DS6-44	4CS6-31	4DS9-15S	4DU9-SX
4DS6-44	4CS6-31R	4DS6-44	4DU9-S
4DS6-44	4CS9-11	4DS6-44	4DU9-SN
4DS6-44	4CS9-11R	4DS6-44	4DU9-SX
4DS6-44	4CS9-10	2FCF-***	4DU9-S
4DS6-44	4CS9-10R	2FCF-***	4DU9-SN
4DS6-44	4QA6-31	2FCF-***	4DU9-SX
4DS6-44	4QA9-10	4DJ9-***	4CS6-31
4DS6-44	4QB9-11	4DJ9-***	4CS6-31R
4DS6-44	4DU9-1S	4DJ9-***	4CS9-11
4DS6-44	4DU9-1SN	4DJ9-***	4CS9-11R
4DS6-44	4DU9-1SX	4DJ9-***	4CS9-10
2FCF-***	4DJ9-***	4DJ9-***	4CS9-10R

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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)

(H) <u>High Capacity</u> (Cont'd)			
<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DJ9-***	4QA6-31	4DS9-15B	4DU9-D
4DJ9-***	4QA9-10	4DS9-15B	4DU9-DN
4DJ9-***	4QB9-11	4DS9-15B	4DU9-DX
4DJ9-***	4DU9-S	4DS9-1BN	4CS6-31
4DJ9-***	4DU9-SN	4DS9-1BN	4CS6-31R
4DJ9-***	4DU9-SX	4DS9-1BN	4CS9-11
4CM9-1	4CS6-31	4DS9-1BN	4CS9-11R
4CM9-1	4CS6-31R	4DS9-1BN	4CS9-10
4CM9-1	4CS9-11	4DS9-1BN	4CS9-10R
4CM9-1	4CS9-11R	4DS9-1BN	4QA6-31
4CM9-1	4CS9-10	4DS9-1BN	4QA9-10
4CM9-1	4CS9-10R	4DS9-1BN	4QB9-11
4CM9-1	4QA6-31	4DS9-1BN	4DU9-D
4CM9-1	4QA9-10	4DS9-1BN	4DU9-DN
4CM9-1	4QB9-11	4DS9-1BN	4DU9-DX
4CM9-1	4DU9-S	4DS6-44	4DU9-D
4CM9-1	4DU9-SN	4DS6-44	4DU9-DN
4CM9-1	4DU9-SX	4DS6-44	4DU9-DX
4DS9-15B	4CS6-31	2FCF-***	4DU9-D
4DS9-15B	4CS6-31R	2FCF-***	4DU9-DN
4DS9-15B	4CS9-11	2FCF-***	4DU9-DX
4DS9-15B	4CS9-11R	4DJ9-***	4DU9-D
4DS9-15B	4CS9-10	4DJ9-***	4DU9-DN
4DS9-15B	4CS9-10R	4DJ9-***	4DU9-DX
4DS9-15B	4QA6-31	4CM9-1	4DU9-D
4DS9-15B	4QA9-10	4CM9-1	4DU9-DN
4DS9-15B	4QB9-11	4CM9-1	4DU9-DX

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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)

(H) <u>High Capacity</u> (Cont'd)			
<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS9-1K	4CS6-31	2FCF-***	4DU9-1K
4DS9-1K	4CS6-31R	2FCF-***	4DU9-1KN
4DS9-1K	4CS9-11	2FCF-***	4DU9-1KX
4DS9-1K	4CS9-11R	4DJ9-***	4DU9-1K
4DS9-1K	4CS9-10	4DJ9-***	4DU9-1KN
4DS9-1K	4CS9-10R	4DJ9-***	4DU9-1KX
4DS9-1K	4QA6-31	4CM9-1	4DU9-1K
4DS9-1K	4QA9-10	4CM9-1	4DU9-1KN
4DS9-1K	4QB9-11	4CM9-1	4DU9-1KX
4DS9-1K	4DU9-1K	4DS9-1S	4DU9-1SB
4DS9-1K	4DU9-1KN	4DS9-1SN	4CS6-31
4DS9-1K	4DU9-1KX	4DS9-1SN	4CS6-31R
4DS9-1KN	4CS6-31	4DS9-1SN	4CS9-11
4DS9-1KN	4CS6-31R	4DS9-1SN	4CS9-11R
4DS9-1KN	4CS9-11	4DS9-1SN	4CS9-10
4DS9-1KN	4CS9-11R	4DS9-1SN	4CS9-10R
4DS9-1KN	4CS9-10	4DS9-1SN	4QA6-31
4DS9-1KN	4CS9-10R	4DS9-1SN	4QA9-10
4DS9-1KN	4QA6-31	4DS9-1SN	4QB9-11
4DS9-1KN	4QA9-10	4DS9-1SN	4DU9-1S
4DS9-1KN	4QB9-11	4DS9-1SN	4DU9-1SN
4DS9-1KN	4DU9-1K	4DS9-1SN	4DU9-1SB
4DS9-1KN	4DU9-1KN	4DS9-1SN	4DU9-1SN
4DS9-1KN	4DU9-1KX	4DS6-44	4DU9-1SB
4DS6-44	4DU9-1K	2FCF-***	4DU9-1SB
4DS6-44	4DU9-1KN	4DJ9-***	4DU9-1S
4DS6-44	4DU9-1KX	4DJ9-***	4DU9-1SN

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

7.3.5 Compatible Channel Interfaces (Cont'd)

(H) <u>High Capacity</u> (Cont'd)			
<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DJ9-***	4DU9-1SB	4CMF-C3	2SMF-***
4DJ9-***	4DU9-1SX	4CMF-C3	4SMF-***
4CM9-1	4DU9-1S	4CMF-C3	2SOF-***
4CM9-1	4DU9-1SN	4CMF-C3	4CMF-C3
4CM9-1	4DU9-1SB	2SNF-***	2SNF-***
4CM9-1	4DU9-1SX	2SNF-***	4SNF-***
4DS9-15B	4DU9-D	4SNF-***	2SNF-***
4DS9-15B	4DU9-DN	4SNF-***	4SNF-***
4DS9-15B	4DU9-DX		
4DS9-1BN	4DU9-D		
4DS9-1BN	4DU9-DN		
4DS9-1BN	4DU9-DX		
4DS6-44	4DU9-D		
4DS6-44	4DU9-DN		
4DS6-44	4DU9-DX		
2FCF-***	4DU9-D		
2FCF-***	4DU9-DN		
2FCF-***	4DU9-DX		
4DJ9-***	4DU9-D		
4DJ9-***	4DU9-DN		
4DJ9-***	4DU9-DX		
4CM9-1	4DU9-D		
4CM9-1	4DU9-DN		
4CM9-1	4DU9-DX		

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7. Special Access Service (Cont'd)7.4 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Special Access Service.

7.4.1 Types of Rates and Charges

There are four types of rates and charges. These are monthly rates, daily rates, nonrecurring charges, and zone density charges. The rates and charges are described as follows:

(A) Monthly Rates

Monthly rates are flat recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

(B) Daily Rates

Daily rates are flat recurring rates that apply to each 24 hour period or fraction thereof that a Program Audio or Video Special Access Service is provided for part-time or occasional use. For purposes of applying daily rates, the 24 hour period is not limited to a calendar day.

The application of daily rates during a consecutive 30 day period will be capped at an amount equal to the monthly rate.

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7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The Telephone Company does not apply nonrecurring charges to the channel mileage (fixed or per mile) elements. When service is jointly provided under the Single Bill Method of Multiple Company (Interconnection Point) Billing, the nonrecurring charges are applicable to all nonrecurring functions in the provision of Special Access Service. Under the Multiple Bill Method, the nonrecurring charges are applicable only when the nonrecurring function occurs within the Telephone Company's territory. The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements.

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7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set forth in 7.5 following as a nonrecurring charge for the Channel Termination rate element.

(2) Installation of Optional Features and Functions

Nonrecurring charges apply for the installation of some of the optional features and functions available with Special Access Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service.

The optional features and functions for which nonrecurring charges apply are set forth in 7.5.2, 7.5.3, 7.5.7 and 7.5.8 following.

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7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Rearrangements

Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements as set forth in 5.2.6(E) preceding or a change in the physical location of the point of termination at a customer designated premises. Changes in the type of service or service termination are treated as disconnects and starts. Changes in the physical location of the point of the termination are treated as moves and are described and charged for as set forth in 7.4.5 following.

The nonrecurring charges associated with upgrades in capacity (i.e., multiple DS0s converting to DS1s or multiple DS1s converting to DS3s) will not apply when the customer maintains the same customer premises location. Requests to add or change optional features will be subject to the nonrecurring charges associated with the features requested.

A nonrecurring service upgrade charge, as set forth in Section 7.5.8 following, will apply per DS1 or DS3 upgraded when converting existing high capacity services to OptiPoint service. The charge does not apply when OptiPoint is ordered as new service and no existing high capacity services are being relocated to the OptiPoint service. For orders for new services submitted after February 5, 2000, the nonrecurring service upgrade charge will apply for each DS1 or DS3 channel connected to new OptiPoint service when existing DS1 or DS3 facilities between the same points of termination as the new OptiPoint service are disconnected within 30 days of the order for new services.

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7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Rearrangements (Cont'd)

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

Administrative changes will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Access Service to the same entity (i.e., customer remains responsible for the Access Service).

Administrative changes are as follows:

- Change of customer name (i.e., the customer of record does not change but rather the customer of record changes its name—e.g., AT&T-Long Lines to AT&T Communications),
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number)
- Change of agency authorization,
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction.

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7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

All other service rearrangements will be charged for as follows:

- If the change involves the addition of another leg to an existing multipoint service, the nonrecurring charge for the channel termination rate element will apply. The charge will apply only for the leg that is being added.
- If the change involves changing the type of signaling on a Voice Grade service, a charge equal to the Voice Grade channel termination rate element nonrecurring charge will apply. The charge will apply per channel termination affected.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

- For service rearrangements involving OC3, OC12 or OC48 special access services (e.g., Gateway SONET Ring Service, OptiPoint Service, Sprint SONET Ring ServiceSM), a charge equal to one half the Optical Service Charge set forth in 7.5.1 will apply for each node rearranged.

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- For all other changes, including the addition of optional features without separate nonrecurring charges, a charge equal to one half the nonrecurring installation charges associated with the month-to-month rates for the service will apply.

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(x) The reissued material, originally filed under Transmittal No. 154, became effective July 7, 2001

ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.1 Types of Rates and Charges (Cont'd)(D) Zone Density Charges

Zone density charges are applicable only to 1.544 Mbps (DS1) and 44.736 Mbps (DS3) high capacity service provided at the Telephone Company designated exchanges set forth in Section 7.4.10 following. Zone density charges are flat recurring rates that apply each month or fraction thereof that a DS1 or DS3 special access service is provided. For billing purposes, each month is considered to have 30 days.

7.4.2 Surcharge for Special Access Service(A) General

In addition to the rates and charges described in 7.4.1 preceding, there is a monthly surcharge that applies to Special Access Service. The Special Access Surcharge compensates the Telephone Company for use of the local exchange network when Special Access Service is connected to a PBX or equivalent device which is capable of interconnecting the Special Access Service with local exchange service.

The Telephone Company will automatically bill the surcharge on each Special Access Service installed irrespective of whether the interconnection capability exists in the customer's premises equipment or in a Centrex-CO type switch unless written certification is received from the customer certifying exemption status as set forth in (B) following.

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7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.2 Surcharge for Special Access Service (Cont'd)(B) Special Access Surcharge Exemptions

The Special Access Service will be exempted from the surcharge if the customer provides the Telephone Company written certification that the Special Access channel termination is one of the following:

- (1) an open-end termination in a Telephone Company switch of an FX line, including CCSA and CCSA-equivalent ONALs; or
- (2) an analog termination that is used for radio or television program transmission; or
- (3) a termination used for TELEX service; or
- (4) a termination that by the nature of its operating characteristics could not make use of Telephone Company common lines; or
- (5) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line charges such as, where the Special Access Service accesses only FGA and no local exchange lines, or Special Access Service between customer points of termination or Special Access Service connecting CCSA or CCSA-type equipment (inter-machine trunks); or

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7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.2 Surcharge for Special Access Service (Cont'd)(B) Special Access Surcharge Exemptions (Cont'd)

- (6) a termination that the customer certifies to the Telephone Company is not connected to a PBX or other device capable of interconnecting the special access facility to a local exchange subscriber line.

(C) Exemption Certification

- (1) Special Access Services which are terminated as set forth in (B) preceding will be exempted from the Special Access Surcharge if the customer provides the Telephone Company with a written notification certifying exemption. Such notification shall be provided by the customer (1) at the time the Special Access Service is ordered or installed; (2) at such time as the Special Access Service is reterminated to a device not capable of interconnecting to the local exchange network, or (3) at such time as the Special Access Service becomes associated with a Switched Access Service that is subject to Carrier Common Line charges.

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7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.2 Surcharge for Special Access Service (Cont'd)(C) Exemption Certification (Cont'd)

- (2) If written certification is not received at the time the Special Access Service is obtained, the surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations in (D) following.
- (3) The exemption certification is to be provided by the customer ordering the service. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in (B) preceding, for each termination, and the date which the exemption is effective.
- (4) The customer shall also notify the Telephone Company when an exempted Special Access Service is changed or reterminated such that the exemption is no longer applicable.
- (5) The Telephone Company will work cooperatively with the customer to resolve any questions regarding the exemption certification. In addition, the Telephone Company may withhold exemption of the service until the questions are resolved.

(D) Crediting the Surcharge

The Telephone Company will cease billing the Special Access Surcharge when certification is received that the Special Access Service has become exempt from the surcharge, as set forth in (B) preceding. If the status of the Special Access Service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account, not to exceed ninety (90) days, based on the effective date of the change specified by the customer in the letter of certification.

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7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.2 Surcharge for Special Access Service (Cont'd)

(E) Application of Rates

- (1) The monthly Special Access Surcharge applies to Special Access Services arranged, as set forth in (A) preceding, on a per voice grade equivalent basis as shown in the following example.

<u>Special Access Service</u>	<u>Voice Grade Equivalent</u>		<u>Surcharge</u>	<u>Monthly Charge</u>
Voice Grade	1	X	\$25	\$ 25.00
High Capacity				
DS1	24	X	\$25	\$600.00
DS3	672	X	\$25	\$16,800.00

The preceding example illustrates the maximum number of surcharges applicable to a DS1. If the customer claims exemption(s) as set forth in 7.4.2(C) preceding, or is not utilizing all available voice grade equivalents and has spare capacity, the number of surcharges would be reduced accordingly.

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7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.2 Surcharge for Special Access Service (Cont'd)

(E) Application of Rates (Cont'd)

- (2) In the case of multipoint Special Access Service, one Special Access Surcharge will apply for each termination at a customer designated premises except that no surcharge applies at the customer designated premises at which the Access Service is connected to Interstate Service.
- (3) The Telephone Company will bill the surcharge to the customer who orders the Special Access Service unless the Service is exempt as set forth in (B) preceding.

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7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.3 Minimum Periods

The minimum service period for all special access services, except part-time and occasional Video and Program Audio services, Gateway SONET Ring Service, OptiPoint service and Sprint SONET Ring Servicesm, is one month. The minimum service period for part-time and occasional Video and Program Audio Services is one day (i.e., a continuous 24 hour period, not limited to a calendar day).

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7.4.4 Reserved For Future Use7.4.5 Moves

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

- The Point of Termination at the customer's premises
- The customer's premises

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

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.5 Moves (Cont'd)(A) Moves Within the Same Building

Moves within the same building will be considered a rearrangement, and the associated nonrecurring charges will apply. There will be no change in the minimum period requirements.

(B) Moves to a Different Building

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

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.6 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage Facility rate element is calculated on the airline distance between the serving wire centers involved, i.e., the serving wire centers associated with two Customer designated premises, a serving wire center associated with a Customer designated premises and a Telephone Company hub, or two Telephone Company hubs or between the serving wire center associated with a Customer designated premises, and a WATS serving office. The serving wire center associated with a Customer designated premises is the serving wire center from which the Customer designated premises would normally obtain dial tone. The V & H coordinates method is used to determine mileage. This method is explained in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. If the method results in fractional miles, the fractional miles are rounded up to the nearest whole number before determining the rate to be billed. The serving wire center and hub V & H coordinates are also included in that tariff. When hubs are involved, mileage is computed and rates applied separately for each section of the Channel Mileage, i.e., Customer designated premises serving wire center to hub, hub to hub and/or hub to Customer designated premises serving wire center. However, when any service routed through a hub for purposes other than Customer specified bridging or multiplexing (e.g., the Telephone Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the Customer designated premises.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.7 Facility Hubs

A customer has the option of ordering Voice Grade service or High Capacity services to facility hub for channelizing to individual services requiring lower capacity facilities (e.g., Voice, Program Audio, etc.).

A Hub is a Telephone Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. The multiplexing functions are to channelize digital facilities to individual services requiring a lower capacity or bandwidth.

Different locations may be designated as hubs for different facility capabilities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. When placing an Access Order the customer will specify the desired hub. Serving wire centers, and hub locations, and the type of multiplexing functions available are identified in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from digital to voice frequency channels

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7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.7 Facility Hubs (Cont'd)

Point to point services may be provided on channels of these services to a hub. The transmission performance for the point to point service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps channel is multiplexed to voice frequency channels, the transmission performance of the channelized service will be Voice Grade, not High Capacity.

The Telephone Company will commence billing the monthly rate for the service to the hub on the date specified by the customer on the Access Order. Individual channels utilizing these services may be installed coincident with the installation of the service to the hub or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for a Voice Grade or a High Capacity Channel Termination, Channel Mileage (when applicable), and the multiplexer at the time the service is installed. Individual service rates (by service type) will apply for a Channel Termination and additional Channel Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading multiplexing occurs when a High Capacity service is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a DS3 High Capacity service is de-multiplexed to 28 DS1 channels and then one of the DS1 channels is further de-multiplexed to 24 individual Voice Grade Channels.

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7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.7 Facility Hubs (Cont'd)

When cascading multiplexing is performed, whether in the same or a different hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different hubbing locations, Channel Mileage charges also apply between the hubs.

The Telephone Company will designate hubs for Video Services. Full-time or part-time service may be provided between customer designated premises or between a customer designated premises and a hub and billed accordingly at the rates set forth in 7.5.3 or 7.5.4 following for a Channel Termination, Channel Mileage and Optional Features and Functions, as applicable.

At the request of a customer, the full-time and/or part-time services provided to the Hub may be connected together in the following configurations : full-time to full-time, full-time to part-time or part-time to part-time. The customer will be charged for each such connection made at the rates for Additional Labor as set forth in 13.2 following. The rates that apply for the service between each customer designated premises and the Hub are a Channel Termination and Channel Mileage, if applicable. In addition, for Program Audio services, rates for optional features and functions may be applicable.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.8 Shared Use of Digital High Capacity Service

Shared use occurs when special access service and switched access service are provided over the same high capacity DS1, DS3 or SONET based facilities through a common interface. The facility will be ordered, provided and rated as special access service (i.e., channel termination, channel mileage, multiplexing, configuration card and configuration node, if applicable; ring connection and ring transport; or entrance ring connection). The nonrecurring charge that applies when the shared use facility is installed will be the nonrecurring charge associated with the appropriate special access high capacity DS1, DS3 or SONET based service. The customer must place an order for each individual switched access or special access service utilizing the shared use facilities and specify the channel assignment for each such service. Individual service (i.e., switched or special access) nonrecurring charges will not apply to the individual channels of the shared use facility. Rating as special access will continue until such time as the customer chooses to use a portion of the available capacity for providing switched access service.

For special access high capacity DS1, DS3 or SONET based facilities, excluding Gateway SONET Ring Service and Sprint SONET Ring Servicesm, the special access channel termination, channel mileage, applicable multiplexing, configuration card and configuration node rates or ring connection and ring transport rates will be reduced by 1/24th for each DS1 channel, 1/672nd for each DS3 channel, 1/2016th for each OC3 channel, 1/8064th for each OC12 channel, or 1/32,256th for each OC48 channel activated for switched access service. Switched access rates and charges as set forth in Section 6.8 preceding will apply for each channel of shared use facility that is used to provide switched access service (i.e., 1/24th of the switched access entrance facility, direct-trunked transport, and applicable multiplexing rates will apply for each channel of a DS1 service or 1/672nd for each channel of a DS3 service activated for switched access service).

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7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.8 Shared Use of Digital High Capacity Service (Cont'd)

For shared use on Gateway SONET Ring Service, the customer must designate a full DS1 or DS3 for the provision of switched access service. For OC12 service, the entrance ring connection rate will be reduced by 1/336 for each DS1 or 1/12 for each DS3 activated for switched access service. For OC48 service, the entrance ring connection rate will be reduced by 1/1,344 for each DS1 or 1/48 for each DS3 activated for switched access service. The DS1 or DS3 switched access entrance facility rates set forth in Section 6.8 preceding will apply for each DS1 or DS3 of the Gateway SONET Ring Service that is used to provide switched access service.

For shared use on Sprint SONET Ring Servicesm, the customer may designate a full DS1 or DS3 for the provision of switched access service. However, no reduction in the Sprint SONET Ring Servicesm rates will be applied, and the DS1 or DS3 switched access entrance facility rates set forth in Section 6.8 preceding will apply for each DS1 or DS3 of the Sprint SONET Ring Servicesm that is used to provide switched access service.

The applicable switched access entrance facility rate is dependent upon whether the special access high capacity DS1, DS3 or SONET based facility is provided with or without Telephone Company terminal equipment at the customer's premises (e.g., when a special access channel termination provisioned with Telephone Company provided terminal equipment at the customer's premises is activated for switched access service, the switched access rate for an entrance facility with Telephone Company provided terminal equipment will apply).

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7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.8 Shared Use of Digital High Capacity Service (Cont'd)

Where special access high capacity DS1, DS3 or SONET based service is provided utilizing a channel of the shared facility to the Hub, special access high capacity DS1, DS3 or SONET based service rates and charges will apply for the facility to the Hub as set forth preceding and individual service rates and charges will apply from the Hub to the customer designated premises. The rates and charges that will apply to the portion from the Hub to the customer designated premises will be dependent on the specific type of special access that is provided (e.g., Voice Grade, Digital Data, etc.). The rates and charges will include channel termination and channel mileage; ring connection and ring transport ; or entrance ring connection, as appropriate. Rates and charges for optional features and functions associated with the service, if any, will apply as set forth in 7.5 following.

7.4.9 Reserved For Future Use

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