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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. 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.

7.1.1 Channel Types

There are four 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: (C)

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

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

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

Following is a brief description of each type of channel: (D)

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

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

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SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

Following is a brief description of each type of channel: (Cont'd)

Video - a channel for the transmission of standard 525 Line/60-field monochrome or National Television Systems Committee color video signal and one or two 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.

(D)
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(D)

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

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps.

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

The customer also has the option of ordering Voice Grade and analog and digital high capacity facilities (i.e., 1.544 Mbps, 3.152 Mbps, 6.312 Mbps, 44.736 Mbps and 274.176 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. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional

(D)
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(D)

(C)

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7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

Following is a brief description of each type of channel: (Cont'd)

features and functions available are also set forth in 7.2 following.

For example, a customer may order a 3.152 Mbps facility from a customer designated premises to a Telephone Company hub for multiplexing to two 1.544 Mbps channels. The 1.544 Mbps channels may be further 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. (C)

7.1.2 Rate Categories

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

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

(A) Channel Termination

The Channel Termination rate category provides for the communications path between a customer-designated premises and the serving wire center 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 an optional feature as set forth in (E) following. One Channel Termination charge applies per customer-designated premises at which the channel is terminated. This charge will apply even if the customer-designated premises and the serving wire center are colocated in a Telephone Company building.

(B)

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.2 Rate Categories (Cont'd)

(C) Channel Mileage

Channel Mileage rate category provides for the transmission facilities between the serving wire centers associated with two customer-designated premises, between a serving wire center associated with a customer-designated premises and a Telephone Company hub or between two Telephone Company hubs. Channel mileage is portrayed in mileage bands. There are two rates that apply for each band, i.e., a flat rate per band and a rate per mile.

(D)

(E) Optional Features and Functions

The Optional Features and Functions rate category provides for Optional Features and Functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

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

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

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 analog or digital facilities to individual services requiring a lower capacity or bandwidth.

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

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.2 Rate Categories (Cont'd)

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

The following is a list of Verizon Open Network Architecture (ONA) Special Access Basic Service Elements (BSEs) which provides a cross-reference to the generic name contained in Bell Operating Companies, Service Descriptions, ONA Service User Guide, July 31, 1991, from the product name utilized in this tariff.

<u>GENERIC NAME</u>	<u>Verizon PRODUCT NAME</u>
Access To Clear Channel Transmission	Clear Channel Capability (CCC)
Automatic Protection Switching	Automatic Loop Transfer
Bridging	Bridging
Conditioning	Conditioning
Extended Super Frame	Extended Super Frame (ESF)
Network Reconfiguration	INTELLIMUX*
Secondary Channel Capability	Secondary Channel

7.1.3 Service Configurations

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

(A) Two-point Service

A two-point service connects two customer-designated premises, either on a directly-connected basis or through a hub where multiplexing functions are performed.

Applicable rate elements are:

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

* Service Mark

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(A) Two-Point Service (Cont'd)

In addition, a Special Access Surcharge as set forth in Section 3 preceding, and a Message Station Equipment Recovery Charge as set forth in 7.4.3 following, may be applicable.

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

Applicable rate elements are:

Channel Terminations (2 applicable)
Channel Mileage (mileage band over 8 to 25 miles)
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 midlinks available with multipoint service. However, when more than three midlinks are provided in tandem, the quality of the service may be degraded. A midlink 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 Telephone Company list* of available hub locations. The hub list will specify the type of bridging available at a given location and the wire centers served from that hub.

* Same as the list specified for the State in the Exchange Carrier Association Tariff, F.C.C No. 2.

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7.1 General (Cont'd)

7.1.3 Rate Categories (Cont'd)

(B) Multipoint Service (Cont'd)

Applicable Rate Elements are:

Channel Terminations (one per customer-designated premises),

Channel Mileage (as applicable between each customer-designated premises and the hub and between hubs),

Bridging, and

Optional Features (when applicable)

In addition, the Special Access Surcharge as set forth in Section 3 preceding, and a Message Station Equipment Recovery Charge as set forth in 7.4.3 following, may be applicable.

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

Applicable rate elements are:

Channel Terminations (4 applicable)

Channel Mileage (5 sections, each from appropriate mileage band)

Bridging (6 applicable, i.e., each bridge port)

7.1.4 Alternate Use

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

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an 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 ordered (i.e., Channel Terminations, Channel Mileage [as applicable] and Optional Features [if any]).

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

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 Section 11. following.

7.1.6 Design Layout Report

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

7.1.7 Acceptance Testing

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

- (A) For voice grade analog services, acceptance tests will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise and C-Message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
- (B) For other analog services (i.e. Video) and for digital services (C) (i.e., Data and High Capacity) acceptance tests will include tests for the parameters applicable to the service as specified in the order for service.

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

SPECIAL ACCESS SERVICE

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 Section 5. preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges etc.).

7.1.9 Volume Term Pricing Plans (VTPP)

Volume Term Pricing Plans are pricing options available to DDS and DS1 customers. A customer, by state, meeting one or more of the requirements described in section 7.2.8 and 7.2.9, can subscribe to specific plans in exchange for reduced monthly rates.

(A) Terms and Conditions

1. When requesting a Volume Term Pricing Plan, the customer must specify the length of the desired commitment period and the services which are to be included in the plan.
2. When requesting any VTPP activity regarding channel terminations, the customer must specify by circuit identification number which circuits are to be affected.
3. When ordering VTPP services, related rate elements must be ordered under the same plan. Channel terminations and channel mileage for a given circuit must be in the same plan and have the same service date.
4. At the end of a VTPP commitment period, the associated service(s) will revert to monthly service rates unless the customer subscribes to a new VTPP.
5. Each Volume Term Pricing Plan will require a separate contract and is considered independent of all other pricing plans.
6. The customer must identify each circuit to be included in a pricing plan.

(B) Termination Liability

1. A termination liability payment is applicable when a service is disconnected in full or in part prior to the end of the selected commitment period or when the customer fails to comply with the conditions required for VTPP, except as set forth in (C) following.

SPECIAL ACCESS SERVICE

7.1 General (Cont'd)

7.1.9 Volume Term Pricing Plans (VTPP) (Cont'd)

(B) Termination Liability (Cont'd)

2. If the customer requests all channel terminations of a DS1 service to be used for Switched Access, the request will be treated as a disconnect and termination liability will be assessed.

Changes, such as adding optional features to a channel, will be permitted. Any change which results in the removal of channel terminations from a pricing plan without adding additional channel terminations to meet that plan's volume requirements is considered to be a termination of the contract.

3. The termination liability payment applies to each individual recurring rate element associated with a VTPP which is disconnected prior to the expiration of the commitment period of the VTPP.
4. Termination liability will be computed as follows:
 - a. For services discontinued within the first year, the customer will be liable for 100% of the total monthly charges for the unexpired portion of the initial 12 months, and 15% of the total monthly charges for DS1 channel terminations and 30% of the total monthly charges for all other rate elements for the remainder of the VTPP commitment period.
 - b. For services discontinued after the first 12 months of a plan, customers will be liable for 15% of the total monthly charges for DS1 channel terminations and 30% of the total monthly charges for all other DS1 and DDS rate elements for the remaining portion of their VTPP commitment period.

(C) Termination Without Liability

1. A VTPP may be canceled without liability should the applicable tariff rates increase.
2. A request to change to a longer commitment period will nullify the current termination liability. All terms and conditions associated with the new VTPP will apply.

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7.1 General (Cont'd)

7.1.9 Volume Term Pricing Plans (VTPP) (Cont'd)

(C) Termination Without Liability (Cont'd)

3. Termination liability is not applicable if the customer requests to upgrade service to a higher capacity (e.g., DDS to DS1) or a higher speed (2.4 kbps to 4.8 kbps) service and meets all of the following conditions:
 - a. The new service is provided between the same locations as the disconnected service.
 - b. The new service is purchased under a long-term agreement equal to or greater than the commitment period of the service being disconnected.
 - c. The total bandwidth (in kbps) of the service is greater than or equal to the bandwidth of the discontinued service(s).

(D) Additions To Plans

Customers with an existing VTPP who wish to increase the number of their DDS or DS1 services have the following options:

1. Subscribe to the additional services under the monthly payment plan.
2. Subscribe to the additional services under a separate VTPP.
3. Upgrade existing plan of equal or greater length.

7.2 Service Descriptions

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

Voice Grade (VG)

Video (TV)

Digital Data (DA)

High Capacity (HC)

(D)

(D)

(D)

(D)

(D)

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

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 are described in this section.

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

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

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

Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two-letter codes are shown preceding 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 alphanumeric 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 terminations 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 at the end of this 7.2. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

The Optional Features and Functions available with each type of Special Access Service are described in this section. The Optional Features and Functions information also indicates with which technical specifications packages they 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 References for each category of service:

Voice Grade	PUB	62501 and associated Addendum	(D)
	PUB	41004, Table 4	(D)
Video	PUB	62504 and associated Addendum	(D)
	PUB		(D)
Digital Data	PUB	62507 and associated Addendum	(D)
	PUB	62310	(D)
High Capacity	PUB	62508	
	PUB	62411	

7.2.1 Metallic Service* (T)

(D)

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(D)

* Effective December 19, 2013, Metallic Service has been withdrawn and is no longer available. (N)
(N)

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

(D)

(D)

7.2.2 Telegraph Grade Service*

(T)

(D)

(D)

* Effective December 19, 2013, Telegraph Grade Service has been withdrawn
and is no longer available.

(N)

(N)

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

(D)

(D)

7.2.3 Voice Grade Service

(A) Basic Channel Description

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

(B) Technical Specifications Packages

	Package VG-												
<u>Parameter</u>	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
Attenuation													
Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Message Noise	X	X	X	X	X	X	X	X	X	X	X	X	X
Echo Control	X	X	X	X		X		X	X			X	X

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

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(B) Technical Specifications Packages (Cont'd)

	Package VG-												
<u>Parameter</u>	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
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 technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference PUB 62501 and associated Addendum. The technical specifications for dropouts, phase hits, and gain hits are delineated in Technical Reference PUB 41004, Table 4.

(C) Channel Interfaces

The following channel interfaces for Voice Grade Service do not require signaling capability: 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(C) following.

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

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions

(1) Central Office Bridging Capability

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

Split Band, Active Bridging
Passive Bridging
Summation, Active Bridging

(2) Central Office Multiplexing

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

(3) Conditioning

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

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

* Effective December 19, 2013, Telegraph Grade Service has been withdrawn and is no longer available. (N)
(N)

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

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

(3) Conditioning (Cont'd)

(a) C-Type Conditioning

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

Attenuation Distortion
(Frequency Response)
Relative to 1004 Hz

<u>Frequency Range (Hz)</u>	<u>Variation (dB)</u>
400-2800	-1.0 to +2.0
300-3000	-1.0 to +3.0
3000-3200	-2.0 to +6.0

<u>Envelope Delay Distortion</u>	
<u>Frequency Range (Hz)</u>	<u>Variation (micro- seconds)</u>
1000-2600	100
800-2600	200
600-2600	300
500-2800	600
500-3000	3000

(b)

(c) Sealing Current Conditioning

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

(d)

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

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

(4) 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. The ranges are delineated in Technical Reference PUB 62501.

(5)

(6) Improved Return Loss

(a) 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. The Improved Return Loss parameters are delineated in Technical Reference PUB 62501.

(b) 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. The Improved Return Loss parameters are delineated in Technical Reference PUB 62501.

(7) Data Capability

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

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

Signal to C-Notched Noise Ratio is equal to or greater than 32dB.

Intermodulation distortion:

Signal to second order modulation products (R2) is equal to or greater than 38dB

Signal to third order modulation products (R3) is equal to or greater than 42dB(C)

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

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

(8) 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 (mcs)</u>
1000-2600	110
800-2800	180

(9) Signaling Capability

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

(10) Selective Signaling Arrangement

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

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

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

(11) Transfer Arrangement

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

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	X					X	X	X	X	X	X		
Central Office													
Bridging													
Capability	X		X			X	X				X	X	X
Central Office													
Multiplexing	X						X						
Customer-specified													
Premises Receive													
Level	X		X	X				X	X	X			
Data Capability	X						X	X			X		
Improved Return													
Loss													
For Effective Four-													
wire Transmission	X	X	X	X	X	X	X	X	X	X	X	X	X
For Effective Two-													
wire Transmission	X		X	X				X					
Sealing Current													
Conditioning	X						X						
Selective Signaling													
Arrangement	X		X			X	X				X	X	X
Signaling													
Capability	X	X	X	X				X	X	X			
Telephoto													
Capability	X											X	
Transfer													
Arrangement	X	X	X	X	X	X	X	X	X	X	X	X	X

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.4 Program Audio Service*

(T)

(D)

(D)

* Effective December 19, 2013, Program Audio Service has been withdrawn and is no longer available. (N)
(N)

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

(D)

(D)

7.2.5 Video Service

(A) Basic Channel Description

A Video channel is a channel with one-way transmission capability for a standard 525-line/60-field monochrome, or National Television Systems Committee color, video signal and one or two associated 5 or 15 kHz audio signal(s). The associated audio signal(s) may be either diplexed or provided as one or two separate channels. The bandwidth for a video channel is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 MHz. The provision and the bandwidth of the associated audio signal(s) is a function of the channel interface selected by the customer. Video channels are provided between customer-designated premises or between a customer-designated premises and a Telephone Company hub.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.5 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
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 Nonlinearity	X		
Video/Audio Delay Difference	X		

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

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.5 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	15kHz	1 Channel, diplexed
2TV6-2	15kHz	2 Channels, diplexed
2TV7-1	15kHz	1 Channel, diplexed
2TV7-2	15kHz	2 Channels, diplexed
4TV6-5	5kHz	1 Channel, separate
4TV6-15	15kHz	1 Channel, separate
4TV7-5	5kHz	1 Channel, separate
4TV7-15	15kHz	1 Channel, separate
6TV6-5	5kHz	2 Channels, separate
6TV6-15	15kHz	2 Channels, separate
6TV7-5	5kHz	2 Channels, separate
6TV7-15	15kHz	2 Channels, separate

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

7.2.6 Wideband Analog Service*

(T)

(D)

(D)

* Effective December 19, 2013, Wideband Analog Service has been withdrawn and is no longer available.

(N)

(N)

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

(D)

(D)

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

(D)

(D)

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.7 Wideband Data Service*

(T)

(D)

(D)

* Effective December 19, 2013, Wideband Data Service has been withdrawn and is no longer available.

(N)

(N)

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Data Service* (N)

(A) Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, or 56 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are only available via Telephone Company designated hubs and are provided between customer-designated premises or between a customer-designated premises and a Telephone Company hub.

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. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

* Effective February 13, 2026, this service is no longer available to new customers. Moves, changes, or modifications to this service will no longer be supported. Service modifications for customers with existing contracts are subject to the terms of their contracts. (N)
|
(N)

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SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Data Service* (Cont'd) (N)

(B) Technical Specifications Packages

Parameter	Package DA-			
	1	2	3	4
Error-Free Seconds	X	X	X	X

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Voltages which are compatible with Digital Data Service are delineated in Technical Reference PUB 62507.

(C) Channel Interfaces

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

CI	Bit Rate
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-56	56.0 kbps
DU-96	9.6 kbps

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

(D) Optional Features and Functions

(1) Central Office Bridging Capability

(2) Transfer Arrangement

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

- * Effective February 13, 2026, this service is no longer available to new customers. Moves, changes, or modifications to this service will no longer be supported. Service modifications for customers with existing contracts are subject to the terms of their contracts. (N)

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Data Service* (Cont'd) (N)

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

(3) Secondary Channel

Secondary Channel (SC) is an optional arrangement which provides a derived lower speed Digital Data companion channel which is independent of the primary Digital Data Service Channel. SC allows customers to perform Network Management, diagnostic and maintenance applications on their Digital Data Networks.

Secondary Channel is provided only at the 2.4, 4.8, 9.6 and 56 kbps DDS speeds and is available as a point-to-point or multipoint service except for multipoint service at 56 kbps. Due to transmission equipment restrictions, SC cannot be provided on 56 kbps circuits that require the installation of Loop Repeater equipment.

The Secondary Channel option is only available on new orders for service. The addition of SC to an existing Digital Data Service will be treated as a disconnect of the existing service and a new connect for the service with SC.

The Technical specifications for this feature are as described in Technical Reference TR-NPL-000157. The bit rates of the SC are as shown in the following table:

<u>Digital Data Channel</u> <u>Transmission Speed</u>	<u>Secondary Channel</u> <u>Transmission Speed</u>
2.4 Kbps	133 bps
4.8 Kbps	266 bps
9.6 Kbps	533 bps
56.0 Kbps	2.666 Kbps

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

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

* Effective February 13, 2026, this service is no longer available to new customers. Moves, changes, or modifications to this service will no longer be supported. Service modifications for customers with existing contracts are subject to the terms of their contracts. (N)
|
(N)

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Data Service* (Cont'd) (N)

(E) Volume Term Pricing Plans(N)

(1) DDS customers have the option of subscribing to 2, 3 or 5 year commitment periods, and to various pricing plans as indicated following:

- a. VTPP Plan 1 - 1 to 24 channel terminations.
- b. VTPP Plan 2 - 25 to 100 channel terminations.
- c. VTPP Plan 3 - more than 100 and less than 2000 channel terminations.

(2) DDS plans, depending upon speed of service, are applicable to some channel terminations, and channel mileage, fixed and per mile rate elements, as specified in C. following.

7.2.9 High Capacity Service

(A) Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps† or 1.544, 3.152, 6.312, 44.736, or 274.176 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided between customer-designated premises or between a customer-designated premises and a Telephone Company Hub or Hub-to-Hub for INTELLIMUX* Service at 1.544 MBPS Transmission.

The customer may provide the Network Channel Terminating Equipment associated with the High Capacity Channel at the customer's premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

† Available only as a channel of a 1.544 Mbps facility between two Telephone Company Digital Data hubs or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 kbps channels of two 1.544 Mbps facilities at a Digital Data hub. The customer must provide system and channel assignment data.

* Effective February 13, 2026, this service is no longer available to new customers. Moves, changes, or modifications to this service will no longer be supported. Service modifications for customers with existing contracts are subject to the terms of their contracts. (N)

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(B) Technical Specifications Packages

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

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

(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-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

Compatible channel interfaces are set forth in 7.3.5(I) 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. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer premises. The customer is responsible for providing the equipment at its premises. Equipment at the customer premises will be provided under tariff only if it existed in the Telephone Company inventory as of November 18, 1983.

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

* Service Mark of Verizon

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

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

(2) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A key activated or dial up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option. This feature is not available with channels utilizing the clear channel capability (B8ZS) line Code.

(3) Central Office Multiplexing

(a) DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time division multiplexing.

(b) DS3 to DS1

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

(c) DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.

(d) DS1C to DS1

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

(e) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DS1 to the hub can also be used for a Digital Data Service.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

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

(3) Central Office Multiplexing (Cont'd)

(f) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

(g) DSO to Subrate

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps, or five 9.6 kbps channels using digital time division multiplexing.

(4) Clear Channel Capability (CCC)

- (a) CCC is an arrangement that allows a customer to transport 1.536 Mbps information rate signals over a 1.544 Mbps High Capacity channel or a 1.544 Mbps High Capacity channel subtending from a multiplexed 44.736 Mbps High Capacity channel with no constraint on the quantity or sequence of ones (mark) and zero (space) bits. This arrangement requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code as described in Technical Reference TR-NPL-000054 and Technical Reference PUB 62508.
- (b) CCC is provided on 1.544 Mbps High Capacity channels between two customer designated premises and on multiplexed 44.736 High Capacity channels or multiplexed 1.544 High Capacity channels* between a telephone company Hub office and a customer designated premises, and is subject to the availability of facilities.
- (c) The optional feature may be ordered at the same time the High Capacity service is ordered or it may be ordered as an additional to an existing High Capacity service. Customers must agree to out-of-service periods required to add this feature to an existing High Capacity service.

* Available only in a DS1-to-Digital Multiplexed Configuration

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

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

(5) Extended Superframe Format

Extended Superframe Format is an optional feature that passes a customer provided framing format for 1.544 Mbps High Capacity service. Extended Superframe Format 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 distance functionalities: 2 kbps for frame synchronization, 2 kbps for cyclic redundancy checking, and 4 kbps used for performance monitoring information.

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>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Automatic Loop Transfer Central Office Multiplexing:	X					
DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DS0		X				
DS0 to Subrate†	X					
Transfer Arrangement		X				
Clear Channel Capability		X				
Extended Super Frame Format		X				

† Available only on a channel of a 1.544 Mbps facility to a Telephone Company hub.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(E) Volume Term Pricing Plans

(1) DS1 customers have the option of subscribing to 2, 3 or 5 year commitment periods, and to various pricing plans as indicated following:

- a. VTPP Plan 1 - 1 to 2 channel terminations.
- b. VTPP Plan 2 - 3 to 8 channel terminations.
- c. VTPP Plan 3 - 9 to 16 channel terminations.
- d. VTPP Plan 4 - 17 to 32 channel terminations.
- e. VTPP Plan 5 - more than 32 channel terminations.

(2) DS1 plans are applicable to channel terminations and channel mileage, fixed and per mile rate elements, as in C. following.

Volume Term Pricing Plans are not applicable to services in other rate plans.

7.2.10 INTELLIMUX Service

(A) General

Verizon INTELLIMUXsm Service enables customers, through the use of the INTELLIMUX host computer, to reconfigure, in real-time, specific Special Access voice grade, DDS, and/or individual channels within a 1.544 Mbps High Capacity Service connected at digital cross connect systems. Customers gain access to the INTELLIMUX host computer through the use of a CPE terminal at their premises without going through normal service order procedures.

(B) Service Description

INTELLIMUX Service allows customers management and network reconfiguration capability of their voice grade, DDS, and/or individual channels within a 1.544 Mbps High Capacity Special Access Service. The reconfiguration is accomplished by either telephone company performed or customer performed access. Access is gained by a customer from a dial-up line from a customer-provided terminal at their premises to access the intelligent controller - the INTELLIMUX host computer. The INTELLIMUX host computer assures that the services to be connected together for a

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.10 INTELLIMUX Service (Cont'd)

(B) Service Description (Cont'd)

given customer application have compatible characteristics to ensure proper operations and functions. Once the host computer validates the customer's commands, the instructions are communicated to the digital cross-connect system(s) (DCSs) associated with the customer's services to effect the reconfiguration. The DCSs interface at a DS1 signal level and switch internally at a DSO level regardless of the type of access connection.

INTELLIMUX Service is available at those Hubs identified in National Exchange Carrier Association (NECA) Tariff F.C.C. No. 4. INTELLIMUX Service configurations may utilize multiple Hubs within a LATA. However, they must be interconnected using 1.544 Mbps High Capacity DS1 interoffice facilities. INTELLIMUX Service utilizing DDS can only be provisioned from Hubs which provide both INTELLIMUX and DDS.

Customers can reconfigure their special access networks from their premises or they can have the telephone company perform the reconfiguration.

(C) INTELLIMUX Reconfiguration Options

Two network reconfiguration options are available to INTELLIMUX Service customers:

- Real Time
- Reservation

The real time option will make immediate changes to the network, while the reservation option will be executed at a specified time designated by the customer. Both types of reconfigurations are available whether the customer performs the reconfigurations or requests the Telephone Company to perform them.

(D) Technical Specifications

Access to INTELLIMUX Service is through the use of dial-up services. The customer's dial-up access must conform to the guidelines for PDN as set forth in Verizon Technical Reference TR 72211 relating to the arrangement.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.10 INTELLIMUX Service (Cont'd)

(D) Technical Specifications (Cont'd)

Services capable of being cross-connected by INTELLIMUX Service must have identical technical characteristics to ensure compatibility and proper operation, e.g., data to data, voice to voice. INTELLIMUX Service specifications are delineated in Technical Reference Pub TR-TSY-000366.

If the telephone company determines that the requested technical specifications are not compatible, the customer will be advised and given the opportunity to change the order.

INTELLIMUX Service is available twenty-four hours a day except during the performance of routine maintenance of telephone company facilities and equipment used to provide INTELLIMUX Service. The following is the schedule for routine maintenance:

Scheduled Maintenance

Sunday	12:00 a.m. - 6:00 a.m.
Monday	12:00 a.m. - 3:00 a.m.
First Sat./Month	12:00 a.m. - 2:00 a.m.

In addition to the routine downtime, unscheduled or emergency circumstances may limit availability.

Service Exclusions

The following types of service terminations and options are not supported with the INTELLIMUX offering:

1. Centrex
2. Switched Access Services
3. Shared Use High Capacity Services
4. Secondary legs of a multi-point bridging arrangement
5. DDS Secondary Channel Capability
6. Integrated Channel Service

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7.2 Service Descriptions (Cont'd)

7.2.10 INTELLIMUX Service (Cont'd)

(E) INTELLIMUX Service Options (Cont'd)

End Link and Interoffice Facility Compatibility Verification

System verification of compatibility of the customer specified end links in the cross-connect reconfiguration request. Each end link is verified to ensure technical compatibility for directionality, signalling type, bandwidth and service group.

DS0 Circuit Reconfiguration

The system allows point-to-point rerouting of customer DS0 facilities.

DS1 Circuit Reconfiguration

The system allows point-to-point rerouting of customer DS1 facilities at the DS0 level.

Real Time Capability

The customer, using demand service requests, can reconfigure their network on a realtime basis.

Reservation Capability

The customer, using reservation service requests, can schedule reconfiguration for a future time on a confirmed basis. Reservations can be scheduled on a continuous or or cyclical basis.

Network Model Capability

Customers can define a predetermined network configuration of multiple two point cross-connects and initiate the large scale network reconfiguration with one command. The capability supports daytime/nighttime or weekday/weekend networks.

Basic Routing Capabilities

The customer can define facility routes or paths to be used by the system to connect access facilities in prespecified, user-defined tables.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.10 INTELLIMUX Service (Cont'd)

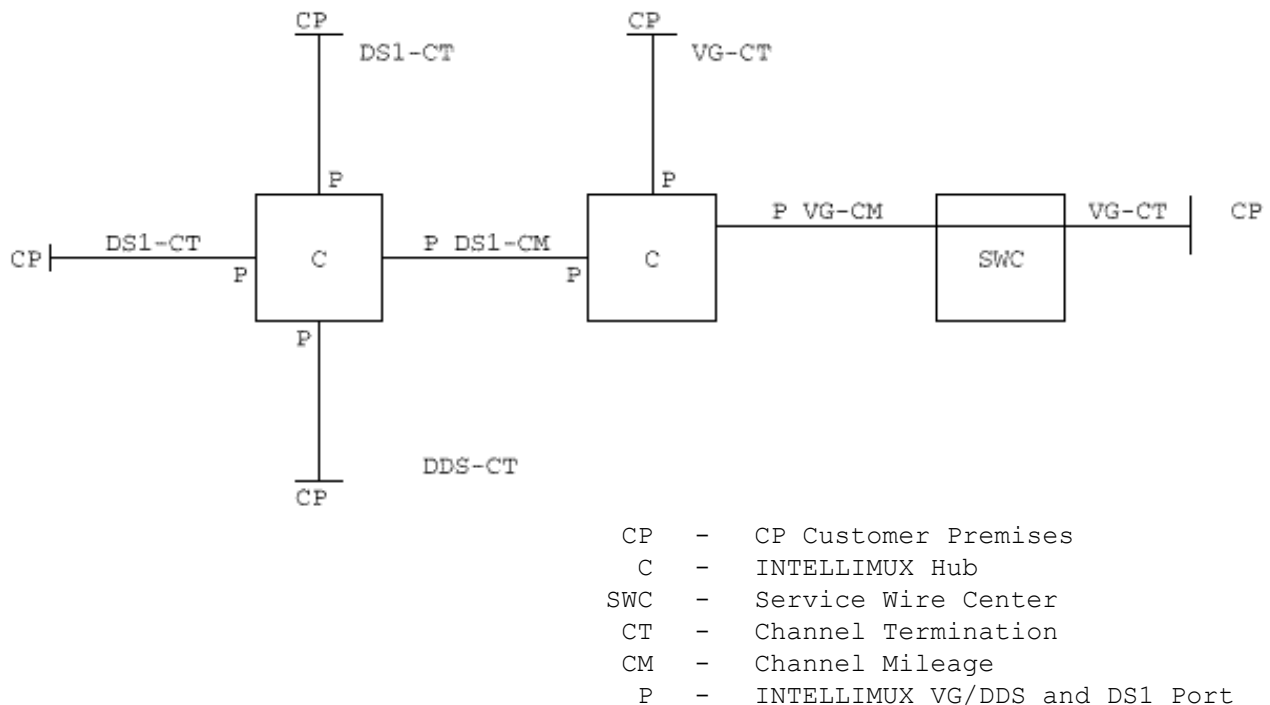
(F) INTELLIMUX Service Configuration

INTELLIMUX provides customer-management capability of Special Access Service Networks as specified in (A) preceding. INTELLIMUX is provided from INTELLIMUX Hubs which are identified in the NECA Tariff No. 4.

Applicable rate elements with monthly rates are:

- INTELLIMUX VG/DDS Port*
- INTELLIMUX DS1 Port
- VG/DDS Channel Terminations (one per premises)
- VG/DDS Channel Mileage (as applicable)
- DS1 Channel Termination (one per premises)
- DS1 Channel Mileage (as applicable between the customer's serving wire center and INTELLIMUX Hub and between INTELLIMUX Hubs)

Example: INTELLIMUX configuration utilizing two INTELLIMUX Hubs and five customer premises locations:



* INTELLIMUX Service and DDS Service can only be provided in Hub offices which support both services.

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

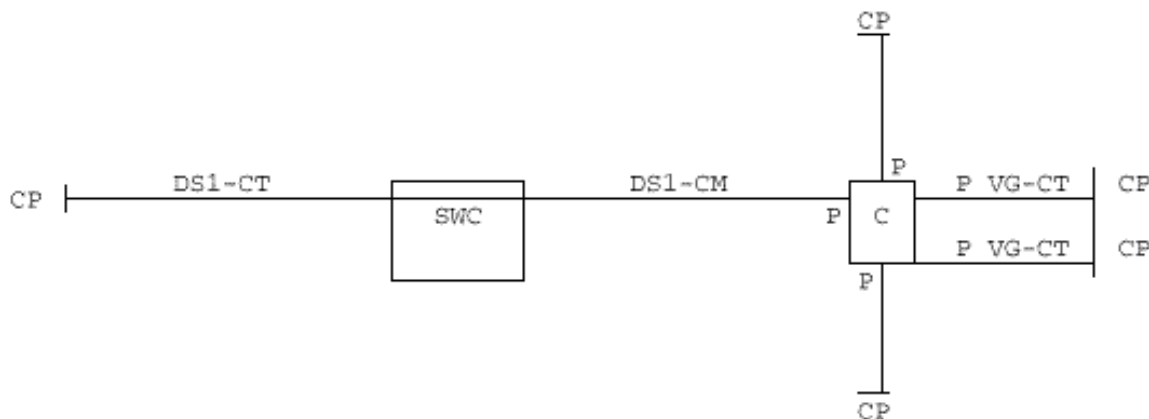
7.2.10 INTELLIMUX Service (Cont'd)

(F) INTELLIMUX Service Configuration (Cont'd)

Rate elements with monthly recurring rates are:

- Channel Termination (2 DS1, 2 VG and 1 DDS applicable)
- Channel Mileage (1 section of DS1 and 1 section of VG applicable)
- INTELLIMUX Port Charges (7 applicable - 4 DS1 and 3 VG/DDS for services terminated in the INTELLIMUX Hubs).

Example: INTELLIMUX configuration utilizing one INTELLIMUX Hub and five customer premises locations



- CP - CP Customer Premises
- C - INTELLIMUX Hub
- SWC - Service Wire Center
- CT - Channel Termination
- CM - Channel Mileage
- P - INTELLIMUX VG/DDS and DS1 Port

Rate elements with monthly rates are:

- Channel Termination (2 DS1, 2 VG and 1 DDS applicable)
- Channel Mileage (1 section of DS1 applicable)
- INTELLIMUX Port Charges (5 applicable, 2 DS1 and 3 VG/DDS for services terminated in the INTELLIMUX Hub)

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (Cont'd)

7.2.10 INTELLIMUX Service (Cont'd)

(G) Rate Element Description

(1) Service Establishment

The Nonrecurring Service Establishment charge applies per initial customer database setup. Included in this charge are the activities associated with installing the customer's network information in the INTELLIMUX Database, training the customer's personnel and providing training materials.

(2) Database Modification

This nonrecurring charge applies whenever the customer requests Verizon to make a subsequent modification in their INTELLIMUX Database. A modification can be a change in security requirements, or a change in administrative information (e.g. customer contact names and numbers, addition/deletion of authorized users).

(3) Telephone Company Performed Reconfiguration

This nonrecurring charge is applicable when the customer chooses to have Telephone Company personnel perform the reconfiguration activities. The Telephone Company reconfigures the customers network based upon customer provided instructions.

This service is charged in increments of thirty (30) minutes for each occasion.

(4) Port Charges

Nonrecurring and monthly port charges apply per port termination of the DCS at the INTELLIMUX Hub office. There are two types of charges:

- Voice Grade/DDS Port Charge - Channel Port Termination for all voice grade and DDS service
- DS1 Port Charge - 1.544 Mbps Channel Port Termination

SPECIAL ACCESS SERVICE

7.3 Channel Interface and Network Channel Codes

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

Example: If the customer specifies an NT Network Channel Code and a 2DC8-3 Channel Interface at the customer's premises, the following is being requested:

NT = Metallic Channel* with a Predefined Technical (T)
2 = Number of physical wires at customer premises
DC = Facility interface for direct current or voltage
8 = Variable impedance level
3 = Metallic* facilities (DC continuity) for direct (T)
current/low frequency control signals or slow speed
data (30 baud)

<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	
AH -		analog high capacity interface	
	- B	60 kHz to 108 kHz (12 channels)	
	- C	312 kHz to 552 kHz (60 channels)	
	- D	564 kHz to 3084 kHz (600 channels)	
CT -		Centrex tie trunk termination	
DA -		data stream in VF frequency band at customer's end user's point of termination	
DB -		data stream in VF frequency band at customer's point of termination	
	- 10	VF for TG1 and TG2	
	- 43	VF for 43 Telegraph Carrier type signals, TG1 and TG2	
DC -		direct current or voltage	
	- 1	monitoring interface with series RC combination (McCulloch format)	
	- 2	Telephone Company energized alarm channel	
	3	Metallic* facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)	(T)
DD -		Select-A-Station (and TABS) interface at customer's point of termination	
DE -		Select-A-Station (and TABS) interface at the customer's end user's point of termination	

* Effective December 19, 2013, Metallic Service has been withdrawn and is no longer available. (N)
(N)

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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>
DS -		digital hierarchy interface
- 15		1.544 Mbps (DS1) format per PUB41451 plus D4
- 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 per PUB 41451
- 15K		1.544 Mbps format per PUB 41451 plus extended framing format
- 15L		1.544 Mbps (DS1) with SF signaling
- 27		274.176 Mbps (DS4)
- 27L		274.176 Mbps (DS4) with SF signaling
- 31		3.152 Mbps (DS1C)
- 31L		3.152 Mbps (DS1C) with SF signaling
- 44		44.736 Mbps (DS3)
- 44L		44.736 Mbps (DS3) with SF signaling
- 63		6.312 Mbps (DS2)
- 63L		6.312 Mbps (DS2) with SF signaling
DU -		digital access interface
- 24		2.4 kbps
- 48		4.8 kbps
- 56		56.0 kbps
- 96		9.6 kbps
- A		1.544 Mbps format per PUB 41451
- B		1.544 Mbps format per PUB 41451 plus D4
- C		1.544 Mbps format per PUB 41451 plus 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
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.

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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>
EX	B	tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions.
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 and
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 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
	- 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	- 0	protective relaying*
RV	- 0	reverse battery signaling, one-way operation, originate by customer
	- T	reverse battery signaling, one way operation, terminate function by customer or customer's end user
SF	-	single-frequency signaling with VF band at either customer POT or customer's end user POT
TF	-	telephotograph interface
TT	-	telegraph/teletypewriter interface at either customer POT or customer's end user POT
	- 2	20.0 milliamperes
	- 3	3.0 milliamperes
	- 6	62.5 milliamperes

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

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7.3 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>
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)
WA	-	wideband bandwidth interface at customer's end user POT
	- 1	limited bandwidth
	- 2	nominal passband from 29000 to 44000 Hz
WB	-	wideband data interface at customer POT
	- 18S	18.75 kbps, synchronous
	- 19A	up to 19.2 kbps asynchronous
	- 19S	19.2 kbps synchronous
	- 23A	up to 230.4 kbps, asynchronous
	- 23S	230.4 kbps, synchronous
	- 40S	40.8 kbps, synchronous
	- 50A	up to 50.0 kbps, asynchronous
	- 50S	50.0 kbps, synchronous
WC	-	wideband data interface at customer's end user POT
	- 18	18.75 kbps, synchronous
	- 19	for 12-wire interface: 19.2 kbps, synchronous for 10-wire interface: up to 19.2 kbps, asynchronous
	- 23	up to 230.4 kbps, asynchronous
	- 23S	230.4 kbps, synchronous
	- 40	40.8 kbps, synchronous
	- 50	for 12-wire interface: 50.0 kbps, synchronous for 10-wire interface: up to 50.0 kbps, asynchronous
WD	-	wideband bandwidth interface at customer POT
	1	nominal passband from 300 to 18000 Hz
	- 2	nominal passband from 28000 to 44000 Hz
	- 3	nominal passband from 29000 to 44000 Hz

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

7.3.2 Impedance

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

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

7.3.3 Digital Hierarchy Channel Interface Codes (4DS)

This interface is available to customers that select the multiplexed four-wire DSX-1 or higher facility interface option at the customer-designated premises and provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS8, 4DS9, 4DS0 or 4DS6 plus the speed options indicated following:

<u>Interface Code and Speed Option</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>
4DS8-15	1.544	DS1
4DS9-31	3.152	DS1
4DS0-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

7.3.4 Service Designator/Network Channel Code Conversion Table

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

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

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

7.3.4 Service Designator/Network Channel Code Conversion Table (Cont'd)

Service Designator	Network Channel
Code	Code
MTC	MQ
MT1	NT
MT2	NU
MT3	NV
TGC	NQ
TG1	NW
TG2	NY
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
APC	PQ
AP1	PE
AP2	PF
AP3	PJ
AP4	PK
TVC	TQ
TV1	TV
TV2	TW
WA1	WJ
WAIT	WQ
WA2	WL
WA2A	WR
WA3	WN
WA4	WP
WD1	WB
WD2	WE
WD3	WF
DA1	XA
DA2	XB
DA3	XG
DA4	XH
HCO	HS
HC1	HC
HC1C	HD
HC2	HE
HC3	HF
HC4	HG

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

7.3.5 Compatible Channel Interfaces

(D)

(D)

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

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
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-D	4DE2	4AH6-C	6DY2
2AB2	2AC2	4AH6-C	4DE2	4AH6-C	6DY3
2AB3	2AC2			4AH6-C	4DY2
		4AH5-B	4DE2	4AH6-C	2DY2
4AB2	4SF2	4AH6-D	2DE2	4AH5-B	9DY2
4AB3	4SF2	4AH6-C	2DE2	4AH5-B	9DY3
4AC2	4AC2	4AH5-B	2DE2	4AH5-B	6DY2
4AC2	2AC2			4AH5-B	6DY3
4AH6-D	4AC2	4AH6-D	4DX3	4AH5-B	4DY2
4AH6-D	2AC2	4AH6-C	4DX3	4AH5-B	2DY2
4AH6-C	4AC2	4AH5-B	4DX3		
4AH6-C	2AC2	4AH6-D	4DX2	4AH6-D	9EA2
4AH5-B	4AC2	4AH6-C	4DX2	4AH6-D	9EA3
4AH5-B	2AC2	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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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
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	2G03			4AH5-B	2LS3
4AH6-C	2GO2	4AH6-D	2LO3		
4AH6-C	2G03				
4AH5-B	2GO2				
4AH5-B	2G03				

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

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH6-D	4NO2	2CT3	9DY3	4DB2	4PR2
4AH6-D	2NO2	2CT3	6DY3	4DB2	2PR2
4AH6-C	4NO2	2CT3	9DY2	2DB2	2PR2
4AH6-C	2NO2	2CT3	6DY2		
4AH5-B	4NO2	2CT3	4DY2	4DS8*	4AC2
4AH5-B	2NO2	2CT3	2DY2	4DS8*	2DA2
4AH6-D	4PR2	2CT3	9EA3	4DS8*	6DA2
4AH6-D	2PR2	2CT3	9EA2	4DS8*	4DA2
4AH6-C	4PR2	2CT3	6EA2-E	4DS8*	2DA2
4AH6-C	2PR2	2CT3	6EA2-M		
4AH5-B	4PR2	2CT3	4EA2-E	4DS8*	4DE2
4AH5-B	2PR2	2CT3	4EA2-M	4DS8*	2DE2
4AH6-D	4RV2-T	2CT3	83B2-E	4DS8*	4DX3
4AH6-D	2RV2-T	2CT3	8EB2-M	4DS8*	4DX2
4AH6-C	4RV2-T	2CT3	6EB2-E		
4AH6-C	2RV2-T	2CT3	6EB2-M	4DS8*	9DY3
4AH5-B	4RV2-T	2CT3	6EB3-E	4DS8*	9DY2
4AH5-B	2RV2-T			4DS8*	6DY3
		2CT3	8EC2	4DS8*	6DY2
4AH6-D	4SF2				
4AH6-C	4SF2	2CT3	4SF2	4DS8*	4DY2
4AH5-B	4SF2	2CT3	4SF3	4DS8*	2DY2
4AH6-D	4SF3				
4AH6-C	4SF3	6DA2	6DA2	4DS8*	9EA2
4AH5-B	4SF3	6DA2	4DA2	4DS8*	9EA3
4AH6-D	4TF2	4DA2	4DA2	4DS8*	EA2-E
4AH6-D	2TF2			4DS8*	6EA2-M
4AH6-C	4TF2	4DB2	6DA2	4DS8*	4EA2-E
4AH6-C	2TF2	4DB2	4DA2	4DS8*	4EA2-M
4AH6-B	4TF2	4DB2	2DA2		
4AH6-B	2TF2	2DB3	2DA2		
		2DB2	2DA2		
2CT3	4DS8-*				
		4DB2	4DB2		
2CT3	6DX2				
2CT3	4DX2	4DB2	4NO2		
2CT3	4DX3	4DB2	2NO2		
		2DB2	2NO2		

* See 7.3.3 preceding for explanation.

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

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS8-*	8EB2-E	4DS8-*	4NO2	4DX3	9DY2
4DS8-*	8EB2-M	4DS8-*	2NO2	4DX2	6DY3
4DS8-*	6EB2-E			4DX3	6DY3
4DS8-*	6EB2-M	4DS8-*	4PR2	4DX2	6DY2
		4DS8-*	2PR2	4DX3	6DY2
4DS8-*	2GO2			4DX2	4DY2
4DS8-*	2G03	4DS8-*	4RV2-T	4DX3	4DY2
		4DS8-*	2RV2-T	4DX2	2DY2
4DS8-*	6GS2			4DX3	2DY2
4DS8-*	4GS2	4DS8-*	4SF2		
4DS8-*	2GS2	4DS8-*	4SF3	6DX2	9EA3
4DS8-*	2GS3			6DX2	9EA2
		4DS8-*	4TF2	6DX2	6EA2-E
4DS8-*	2LA2	4DS8-*	2TF2	6DX2	6EA2-M
				6DX2	4EA2-E
	2LB2	4DX2	4DX2	6DX2	4EA2-M
4DS8-*		4DX3	4DX2	4DX2	9EA2
4DS8-*	2LC2	4DX3	4DX3	4DX3	9EA2
				4DX2	9EA3
4DS8-*	2LO2	6DX2	9DY3	4DX3	9EA3
4DS8-*	2LO3	6DX2	9DY2	4DX2	6EA2-E
		6DX2	6DY3	4DX3	6EA2-E
4DS8-*	4LR2	6DX2	6DY2	4DX2	6EA2-M
4DS8-*	2LR2	6DX2	4DY2	4DX3	6EA2-M
		6DX2	2DY2	4DX2	4EA2-E
4DS8-*	6LS2	4DX2	9DY3	4DX3	4EA2-E
4DS8-*	4LS2	4DX3	9DY3	4DX2	4EA2-M
4DS8-*	2LS2	4DX2	9DY2	4DX3	4EA2-M
4DS8-*	2LS3				

* See 7.3.3 preceding for explanation.

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

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6DX2	8EB2-E	4DX2	6LS2	9DY2	6DY3
6DX2	8EB2-M	4DX3	6LS2	9DY3	4DY2
6DX2	6EB2-E	4DX3	4LS2	9DY2	4DY2
6DX2	6EB2-M		9DY2	2DY2	
4DX2	8EB2-E	4DX2	4LS2	9DY3	2DY2
4DX2	8EB2-M	4DX3	2LS3	6DY3	6DY3
4DX3	8EB2-E	4DX2	2LS3	6DY3	6DY2
4DX3	8EB2-M	4DX3	2LS2	6DY2	6DY2
4DX2	6EB2-E	4DX2	2LS2	6DY3	4DY2
4DX2	6EB2-M	2DX3	2LS2	6DY3	2DY2
4DX3	6EB2-E	2DX3	2LS3	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		
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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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
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	8EB2-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	8EB2-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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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
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	4EA2-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	2LO3			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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7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

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

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

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
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	4SF2	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	2GO2	2LR2	2LR2	4LS3	2LO2
4GS3	2GO2	2LR3	2LR2	4LS3	2LO3
4GS2	2GO3				

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

7.3.5 Compatible Channel Interfaces (Cont'd)

(C) Voice Grade (Cont'd)

<u>Compatible Cis</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6LS2	4SF2	4SF3	9DY2	4SF2	2LB2
4LS3	4SF2	4SF2	9DY3	4SF3	2LB2
		4SF3	6DY3		
4NO2	6DA2	4SF2	6DY2	4SF2	2LC2
4NO2	4DA2	4SF2	6DY3	4SF3	2LC2
4NO2	2DA2	4SF3	6DY2		
2NO2	2DA2	4SF2	4DY2	4SF2	2LO3
		4SF3	4DY2	4SF3	2LO3
4NO2	4DE2	4SF3	2DY2		
4NO2	2DE2	4SF2	2DY2	4SF2	2LR2
				4SF3	4LR2
4NO2	4NO2	4SF3	9EA2	4SF3	2LR2
4NO2	2NO2	4SF3	9EA3		
2NO2	2NO2	4SF3	4EA2-E	4SF3	6LS2
2NO3	2NO2	4SF3	4EA2-M	4SF2	4LS2
				4SF3	4LS2
2NO3	2PR2	4SF3	6EB2-E	4SF2	2LS2
		4SF3	6EB2-M	4SF2	2LS3
4RV2-O	4RV2-T	4SF2	2GO3	4SF3	2LS2
4RV2-O	2RV2-T	4SF3	6GS2	4SF3	2LS3
2RV2-O	2RV2-T	4SF2	6GS2		
		4SF2	4GS2	4SF3	4RV2-T
4RV2-O	4SF2	4SF3	4GS2	4SF2	4RV2-T
		4SF2	2GS2	4SF2	2RV2-T
4SF2	4AC2	4SF2	2GS3	4SF3	2RV2-T
4SF2	2AC2	4SF3	2GS2		
		4SF3	2GS3	4SF3	4SF3
4SF3	9DY3				
4SF2	9DY2	4SF2	2LA2	4SF3	4SF2
		4SF3	2LA2	4SF2	4SF2
				4TF2	4TF2
				4TF2	2TF2
				2TF3	2TF2

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

7.3.5 Compatible Channel Interfaces (Cont'd)

(A) 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

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

7.3.5 Compatible Channel Interfaces (Cont'd)

(D)

(D)

(B) Digital Data

(T)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS8-15	4DS8-15*	4DS8-15	6DU5-48		
4DS8-15	4DU5-24	4DS8-15	6DU5-56	4DU5-96	4DU5-96
4DS8-15	4DU5-48	4DS8-15	6DU5-96	6DU5-24	6DU5-24
4DS8-15	4DU5-56	4DU5-24	4DU5-24	6DU5-48	6DU5-48
4DS8-15	4DU5-96	4DU5-48	4DU5-48	6DU5-56	6DU5-56
4DS8-15	6DU5-24	4DU5-56	4DU5-56	6DU5-96	6DU5-96

(C) High Capacity

(T)

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS0-63	4DS0-63	4DS8-15	6DU8-B
4DS0-63	6DU8-A,B or C	4DS8-15	4DU8-B
4DS0-63	4DU8-A,B or C	4DS8-15J	6DU8-A
4DS6-27	4DS6-27	4DS8-15J	4DU8-A
4DS6-27	6DU8-A,B or C	4DS8-15K	6DU8-B
4DS6-27	4DU8-A,B or C	4DS8-15K	4DU8-B
4DS6-44	4DS6-44	4DS8-15K	6DU8-C
4DS6-44	6DU8-A,B or C	4DS8-15K	4DU8-C
4DS6-44	4DU8-A,B or C	4DS9-31	4DS9-31
4DS8-15	4DS8-15†	4DS9-31	6DU8-A,B or C
4DS8-15J	4DS8-15J	4DS9-31	4DU8-A,B or C
4DS8-15K	4DS9-15K	4DU8-A,B or C	4DU8-A,B or 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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SPECIAL ACCESS SERVICE

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 three types of rates and charges. These are monthly rates, daily rates and nonrecurring 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 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. (C)

The application of daily rates for Video service during a consecutive 30-day period is as follows: Daily rates will be topped at an amount equal to the monthly rate (i.e., the charge to the customer for usage billed at daily rates will not exceed the monthly rate). For each day or part day of usage after the daily rates have been topped, a charge equal to 1/30th of the monthly rate will apply. (C)

(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 types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements.

The nonrecurring charge rate structure applicable to the installation of High Capacity DS1 service consists of "first" and "additional" charges. For each circuit ordered, the "first" charges apply to the first circuit specified on the service order. The "additional" charges will apply to each additional same-type circuit specified on the same service order, with the same date due, and between (A) the same end points, or (B) between or within the same-type multiplexed high capacity systems located in the same wire center and between the same end points.

SPECIAL ACCESS SERVICE

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 (Cont'd)

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 for which nonrecurring charges apply are:

Voice Grade Data Capability
Voice Grade Telephoto Capability

(D)
|
(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 (i.e., change from one type of Special Access Service to another or a change from one type of Channel Termination to another) or a change in the physical location of the point of termination at a customer designated premises. Changes in the type of Service or Channel Termination are treated as disconnects and starts. Changes in the physical location of the point of termination are treated as moves and are described and charged for as set forth in 7.4.5 following.

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.

SPECIAL ACCESS SERVICE

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)

Administrative changes will be made without charge to the customer. Administrative changes are as follows:

Change of customer name,

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.

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 the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.

If the change involves changing the type of signaling on a Voice Grade service, a charge equal to the Voice Grade channel termination rate element nonrecurring charge will apply. The charge will apply per service termination affected.

SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements

For all other changes, including the addition of optional features without separate nonrecurring charges, a charge equal to a channel termination rate element nonrecurring charge will apply. Only one such charge will apply per service, per change.

7.4.2 Surcharge for Special Access Service

General

In addition to the rates and charges described in 7.4.1 preceding, there is a monthly Special Access Surcharge that may apply to Special Access Service. The Special Access Surcharge is applied as set forth in Section 3 preceding.

7.4.3 Minimum Periods

The minimum service period for all services except part-time and occasional Video service is one month. The minimum service period for (C) part-time and occasional Video service is one day (i.e., a continuous (C) 24-hour period, not limited to a calendar day).

7.4.4 Moves

A move involves a change in the physical location of the customer's premises.

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 discontinued service.

SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.5 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage is calculated on the airline distance between the locations 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. 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.

Mileage is shown in 7.5 following in terms of mileage bands. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, then find the band into which the computed mileage falls and apply the rates shown for that band. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage band and applying the rates.

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 is routed through a hub for purposes other than customer-specified bridging, multiplexing or INTELLIMUX Service (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.

7.4.6 Facility Hubs

A customer has the option of ordering Voice Grade facilities or analog or digital high capacity facilities (i.e., DS1, DS1C, DS2, DS3 or DS4) (C) to a facility hub for channelizing to individual services requiring lower capacity facilities (e.g., Voice, etc.). (C)

Different locations may be designated as hubs for different facility capacities, 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 ordering, the customer will specify the desired multiplexing hub(s) from a list that the Telephone Company will (T) make available. The hub list will specify the type of multiplexing available at a specific location and the wire centers served from that hub.

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7.4 Rate Regulations (Cont'd)

7.4.6 Facility Hubs

Some of the types of multiplexing available include the following:

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

End-to-end services may be provided on channels of these facilities to a hub. The transmission performance for the end-to-end service provided between the customer-designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps facility is multiplexed to voice frequency channels, the transmission performance of the channelized services will be voice grade, not high capacity.

The Telephone Company will commence billing the monthly rate for the facility to the hub on the date specified by the customer or the service order. Individual services utilizing these facilities may be installed coincident with the installation of the facility to the hub, or may be ordered and/or installed at a later date, at the option of the customers. The customer will be billed for a Voice Grade or a high capacity analog or digital Channel Termination, Channel Mileage (when applicable), and the multiplexer at the time the facility is installed. Individual service rates (by service type) will apply for the 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 analog or digital channel is demultiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further demultiplexed. For example, a Supergroup facility is demultiplexed to five Group facilities and then one of the Group facilities is further demultiplexed to individual voice grade channels.

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.

* Same as the list specified for the State in the Exchange Carrier Association Tariff, F.C.C. No. 2.

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7.4 Rate Regulations (Cont'd)

7.4.6 Facility Hubs (Cont'd)

Although not requiring multiplexing, the Telephone Company will designate certain hubs for Video and Program Audio* Services. Full-time service will be provided between a customer-designated premises and a hub and billed accordingly at the monthly rates set forth in 7.5.4 and 7.5.5 following for a Channel Termination, Optional Features and Functions, and Channel Mileage, as applicable. The customer may order part-time and occasional Video and Program Audio* Services as needed between that hub and a second customer-designated premises. The rate elements required to provide the part-time or occasional service (i.e., Channel Termination, Optional Features and Functions, and Channel Mileage, as applicable) will be billed at daily rates for the duration of the service requested.

The Telephone Company will also designate certain Hubs for Public Data Network Access Concentrators, Packet Switches and the provision of Other Network Services. Access Concentrators collect customer data packets from many access lines, multiplexes them on to trunks and delivers the packets to the Packet Switch. The Packet Switch performs the routing function to deliver the packets to the identified customer.

7.4.7 Shared Use Analog and Digital High Capacity Services

Shared use occurs when Switched Access Service is provided over a High Capacity Special Access facility through a common interface. (C)

The shared use facility will be ordered, provided and rated only as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexer), regardless of whether individual channels of the shared use facility are used for Special Access Service, Switched Access Service, or any other type of service. The practice known as "ratcheting" (to apply non-Special Access rates to the shared use facility on a proportional basis) shall not apply in any circumstance. 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 Channel Termination. Individual service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the shared use facility. (C)

The customer must place an order for each individual Switched or Special Access Service utilizing the Special Access High Capacity Shared Use Facilities and specify the channel assignment for each such service. Shared use of Switched Access facilities (i.e., Special Access Service provided over Switched Access facilities) is not allowed. (T) (N) (N)

* Effective December 19, 2013, Program Audio Service is withdrawn and is no longer available.

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7.4 Rate Regulations (Cont'd)

(D)

(D)

7.4.8 (Reserved for Future Use)

7.4.9 Special Access Rate Exceptions

Services provided by the Telephone Company to connect a customer location to a Public Data Network Access Concentrator or Packet Switch will be rated as a channel termination and, when the customer is normally served by a different serving office, channel mileage applies from the normal serving office to the concentrator or the switch serving office. No channel termination applies at the concentrator or the switch serving office except where protocol conversion is provided, in which case a channel termination will apply to the protocol conversion provider.

Services provided by the Telephone Company to connect a customer location to an Exchange Access Frame Relay Switch (XA-FRS) or an Exchange Access Switched Multi-Megabit Data Service (XA-SMDS) switch will be rated as a channel termination. A channel termination at the XA-FRS switch or XA-SMDS switch serving office and channel mileage from the customer serving wire center to the XA-FRS switch or the XA-SMDS switch, respectively, are not applicable under the provisions of this service.

SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.10 Digital Data Service Rate Stability

A. 2.4 Kbps Five Year Rate Stability Plan

Digital Data Service (DDS) 2.4 kbps Five Year Rate Stability Plan is an offering which will provide customers with stabilized rates for DDS channel terminations, fixed and per mile mileage, and bridging for a five year period. The Telephone Company agrees not to initiate rate increases during the five year rate stability period.

All other services required to make up the total service must be purchased at prevailing tariff rates.

SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.10 Digital Data Service Rate Stability (Cont'd)

B. Minimum Requirements

A minimum of 2,000 DDS 2.4 kbps channel terminations will be required for the five-year rate stability plan. The customer may enter into the five-year rate stability plan with less than 2,000 channel terminations but must reach this level within one year.

The customer may add circuits to the DDS rate stability plan at any time during the five year period. All additional circuits will be rated in accordance with the five-year rate stability plan.

The customer must maintain a minimum level of 2,000 DDS 2.4 kbps channel terminations throughout the five year period. The minimum level of 2,000 channel terminations will be reviewed on an annual basis on the anniversary date of the rate stability plan start date.

The customer will not be obligated to maintain any minimum level of mileage billing units except as specified in C. following.

The customer may disconnect services as necessary provided that the minimum level of 2,000 channel terminations is maintained.

C. Minimum Revenue Guarantee

A minimum revenue guarantee payment will be applicable if the number of DDS 2.4 kbps channel terminations falls below the minimum level of 2,000 channel terminations, as determined on each anniversary date of the contract period.

For purposes of calculating a minimum revenue guarantee payment it will be assumed that each channel termination has one fixed mileage charge, one bridging charge and three per mile charges associated with it. The customer will be billed a minimum revenue guarantee payment for the shortfall of channel terminations below 2,000. The customer will be billed 30% of the total monthly charges for the next 12 months for the number of channel terminations that fall below the 2,000 minimum.

D. Contract Period

The contract period shall begin with the date of initial establishment of service and end 60 months from that date.

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.4.11 Competitive Pricing Arrangements

Competitive pricing arrangements for Digital Data Service and High Capacity Service can be furnished to meet the communication needs of specific customers on a case by case basis under individual contracts. Contract rates will be priced above cost for the service and which costs are on file with the P.S.C. under proprietary agreement. The competitive pricing arrangement contracts, once executed, will be filed with the P.S.C. under proprietary agreement.

7.5 Rates and Charges

7.5.1 Metallic Service*

(T)
(D)

7.5.2 Telegraph Grade Service*

(D)
(T)

(D)
(D)

* Effective December 19, 2013, Metallic and Telegraph Grade Services have been withdrawn and are no longer available.

(N)
(N)

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

(D)

(D)

7.5.3 Voice Grade Service

(A) Channel Termination, per
point of termination

Two-wire	\$501.07	24.61	T6E2X
Four-wire	599.22	39.50	T6E4X

(B) Channel Mileage, per
mileage band

Mileage Bands	Per Month		
	<u>Fixed</u>	<u>Per Mile</u>	
0	None	None	1L5XX
Over 0 to 4	\$13.64	\$2.49	1L5XX
Over 4 to 8	13.64	2.49	1L5XX
Over 8 to 25	22.40	1.42	1L5XX
Over 25 to 50	38.34	.76	1L5XX
Over 50	38.34	.76	1L5XX

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.5.3 Voice Grade Service

(C) Optional Features and Functions	<u>Nonrecurring</u>	<u>Per</u>	
	<u>Charges</u>	<u>Month</u>	<u>USOC</u>
(1) Bridging			
(a) Voice Bridging			
Two-wire/Four-wire, per port			
Two-wire	-	\$26.20	BCNV2
Four-wire.....	-	18.75	BCNV4
(b) Data Bridging			
Two-wire/Four-wire, per port			
Two-wire	-	8.80	BCND2
Four-wire.....	-	15.75	BCND4
(c) Telephoto Bridging			
Two-wire/Four-wire, per port			
Two-wire	-	8.80	BCNF2
Four-wire.....	-	15.75	BCNF4

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.5.3 Voice Grade Service

(C) Optional Features and Functions	Nonrecurring <u>Charges</u>	Per <u>Month</u>	<u>USOC</u>
(1) Bridging			
(d) Select-A-Station Service Bridging			
Sequential Arrangement Ports			
Per 2-wire channel connected	-	\$17.69	DQ2
Per 4-wire channel connected	-	94.02	DQ4
Addressable Arrangement Ports			
Per 2-wire channel connected	-	18.97	KQ2
Per 4-wire channel connected	-	96.59	KQ4
(e) Telemetry and Alarm Bridging			
Active Bridging Channel Connections			
Split Band			
Per channel connected .	-	6.70	CNLRX
Summation			
Per channel connected .	-	3.14	BCNSA
Passive Bridging Channel Connections			
Per channel connected .	-	1.78	BCNTP

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.5.3 Voice Grade Service

(C) Optional Features and Functions	Nonrecurring <u>Charges</u>	Per <u>Month</u>	<u>USOC</u>
(2) Conditioning			
Per point of termination			
C-Type	-	\$ 6.23	X1CPT
Sealing Current	-	None	1HBPT
(3) Improved Return Loss for Effective Two-wire or Four-wire Transmission,			
per point of termination			
Two-wire	-	5.40	1RL2W
Four-wire	-	7.42	1RL4W
(4) Customer-specified Receive Level,			
per two-wire point of termination	-	None	RLS
(5) Multiplexing			
Per arrangement		274.02	MQX
(6) Data Capability, per			
per point of termination	\$219.96	.11	XDCPT
(7) Telephoto Capability, per			
per point of termination	219.96	3.56	XTCPT
(8) Signaling Capability,			
per point of termination	-	8.58	

(D)

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SPECIAL ACCESS SERVICE

7.4 Rate Regulations (Cont'd)

7.5.3 Voice Grade Service

(C) Optional Features and Functions

	<u>Nonrecurring Charges</u>	<u>Per Month</u>	<u>USOC</u>
--	---------------------------------	----------------------	-------------

(8) Signaling Capability (Cont'd)

In lieu of ++, substitute appropriate two-digit code from the following list to specify type of signaling.

AB	EB	LB
AC	EC	LC
CT	EX	LO
DX	GO	LR
DY	GS	LS
EA	LA	RV
		SF

(9) Selective Signaling Arrangement per arrangement	-	19.61	USZ
--	---	-------	-----

(10) Transfer Arrangement (key-activated* or dial-up†), per			
per four-port arrangement including control channel termination#.....	-	8.29	USY
per five-port arrangement including control channel termination#	-	10.37	US5

* The key-activated control channel is rated as a Metallic** Termination (C)
(use USOC T6EME in lieu of T6ECS) and Channel Mileage, if applicable (use USOC
1L5MX in lieu of 1L5XX)

† The dial-up option requires the customer to purchase the Controller Arrangement
(USOC XTDDU) from 13.3.8 following.

An additional Channel Termination charge will apply whenever a spare channel is
configured as a leg to the customer's premises. Additional channel mileage
charges will also apply when the transfer arrangement is not located in the
customer premises serving wire center.

** Effective December 19, 2013, Metallic Service has been withdrawn and is no longer available. (N)
(N)

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7.5 Rates and Charges (Cont'd)

7.5.4 Program Audio Service*

(T)

(D)

(D)

* Effective December 19, 2013, Program Audio Service has been withdrawn and is no longer available. (N)
(N)

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7.5 Rates and Charges (Cont'd)

(D)

(D)

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SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.5 Video Service

	Nonrecurring Charges		Daily Rates	Per Month	USOC
	Full Time	Part Time			
(A) Channel Termination,					
per point of termination					
TV-1 or 2.....	-	-	\$232.49	\$464.76	TMEV1
4TV-5.....	-	-	186.70	426.24	TMEV4
6TV-5.....	-	-	186.70	374.50	TMEV6
TV-15.....	-	-	186.70	388.71	TMEV5

(B) Channel Mileage,

per mileage band	Daily Rates		Per Month		
	Fixed	Per Mile	Fixed	Per Mile	
<u>Mileage Bands</u>					
0	None	None	None	None	1L5XX
Over 0 to 4	\$199.53	\$186.18	\$478.46	\$310.84	1L5XX
Over 4 to 8	199.53	186.18	478.46	310.84	1L5XX
Over 8 to 25	199.53	186.18	478.46	310.84	1L5XX
Over 25 to 50	227.75	183.36	478.46	310.84	1L5XX
Over 50	227.73	178.66	478.46	310.84	1L5XX

7.5.6 Wideband Analog Service*

(T)

(D)

(D)

* Effective December 19, 2013, Wideband Analog Service has been withdrawn and is no longer available. (N)
(N)

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7.5 Rates and Charges (Cont'd)

(D)

(D)

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7.5 Rates and Charges (Cont'd)

(D)

(D)

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SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.7 Wideband Data Service*

(T)
(D)

(D)

* Effective December 19, 2013, Wideband Data Service has been withdrawn and is no longer available. (N)
(N)

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7.5 Rates and Charges (Cont'd)

(D)
|
(D)

7.5.8 Digital Data Service

	<u>Nonrecurring Charges</u>	<u>Per Month</u>	
(A) Channel Termination, per point of termination			
2.4 kbps	\$650.00	\$46.84	T6ECS
4.8 kbps	650.00	46.84	T6ECS
9.6 kbps	650.00	46.84	T6ECS
56.0 kbps	650.00	74.38	T6ECS

	<u>Per Month</u>		
	<u>Fixed</u>	<u>Per Mile</u>	
(B) Channel Mileage, per mileage band			

(1) 2.4 kbps

Mileage Bands

0	None	None	1L5XX
Over 0 to 4	\$37.37	\$2.39	1L5XX
Over 4 to 8	40.48	1.19	1L5XX
Over 8 to 25	44.62	.98	1L5XX
Over 25 to 50	54.55	.79	1L5XX
Over 50	57.02	.75	1L5XX

* The key-activated control channel is rated as Metallic** Termination (use USOC T6EME in lieu of T6ECS) and Channel Mileage, if applicable (use USOC 1L5MX in lieu of 1L5XX). (C)

** Effective December 19, 2013, Metallic Service has been withdrawn and is no longer available. (N)
(N)
(D)

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7.5 Rates and Charges (Cont'd)

7.5.8 Digital Data Service (Cont'd)

(2) 4.8 kbps

<u>Mileage Bands</u>	<u>Per Month</u>		
	<u>Fixed</u>	<u>Per Mile</u>	
0	None	None	1L5XX
Over 0 to 4	\$37.37	\$2.39	1L5XX
Over 4 to 8	40.48	1.19	1L5XX
Over 8 to 25	44.62	.98	1L5XX
Over 25 to 50	54.55	.79	1L5XX
Over 50	57.02	.75	1L5XX

(3) 9.6 kbps

<u>Mileage Bands</u>			
0	None	None	1L5XX
Over 0 to 4	51.38	2.31	1L5XX
Over 4 to 8	52.89	1.14	1L5XX
Over 8 to 25	55.58	1.08	1L5XX
Over 25 to 50	77.22	.75	1L5XX
Over 50	85.16	.59	1L5XX

(4) 56 kbps

<u>Mileage Bands</u>			
0	None	None	1L5XX
Over 0 to 4	116.42	5.25	1L5XX
Over 4 to 8	126.92	2.62	1L5XX
Over 8 to 25	127.47	2.55	1L5XX
Over 25 to 50	150.30	1.64	1L5XX
Over 50	159.73	1.45	1L5XX

(C) Pricing Plans

Plan 1

Channel Mileage

2.4 & 4.8 Kbps			
2 Year Plan.....	2%	5%	1A6KS
3 Year Plan.....	5%	10%	1A6LS
5 Year Plan.....	10%	20%	1A6MS

SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.8 Digital Data Service (Cont'd)

(C) Pricing Plans (Cont'd)

Plan 1 (Cont'd)

Channel Mileage (Cont'd)

9.6 Kbps

	<u>Per Month</u>		
	<u>Fixed</u>	<u>Per Mile</u>	
2 Year Plan.....	2%	5%	1A6KS
3 Year Plan.....	10%	15%	1A6LS
5 Year Plan.....	20%	20%	1A6MS

56 Kbps

2 Year Plan.....	2%	5%	1A6KS
3 Year Plan.....	10%	15%	1A6LS
5 Year Plan.....	20%	20%	1A6MS

Channel Terminations - 56 Kbps

	<u>Per Month</u>		
2 Year Plan.....		2%	1XYKX
3 Year Plan.....		5%	1XYLX
5 Year Plan.....		10%	1XYMX

Plan 2

Channel Mileage

2.4 & 4.8 Kbps

	<u>Per Month</u>		
	<u>Fixed</u>	<u>Per Mile</u>	
2 Year Plan.....	5%	10%	1A6WS
3 Year Plan.....	10%	15%	1A6XS
5 Year Plan.....	15%	25%	1A6YS

9.6 Kbps

2 Year Plan.....	5%	10%	1A6WS
3 Year Plan.....	15%	20%	1A6XS
5 Year Plan.....	25%	25%	1A6YS

56 Kbps

2 Year Plan.....	5%	10%	1A6WS
3 Year Plan.....	15%	20%	1A6XS
5 Year Plan.....	25%	25%	1A6YS

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7.5 Rates and Charges (Cont'd)

7.5.8 Digital Data Service (Cont'd)

(C) Pricing Plans (Cont'd)

Plan 2 (Cont'd)

	<u>Per Month</u>	<u>USOC</u>
Channel Terminations - 56 Kbps		
2 Year Plan	5%	1XYWX
3 Year Plan	10%	1XYXX
5 Year Plan	15%	1XYXX

Plan 3

Channel Mileage (Cont'd)

	<u>Per Month</u>		
	<u>Fixed</u>	<u>Per Mile</u>	
2.4 & 4.8 Kbps			
2 Year Plan	10%	15%	1A6ZS
3 Year Plan	15%	25%	1A61S
5 Year Plan	20%	30%	1A62S
56 Kbps			
2 Year Plan.....	15%	20%	1A6ZS
3 Year Plan.....	25%	25%	1A61S
5 Year Plan.....	30%	30%	1A62S

	<u>Per Month</u>	
Channel Terminations - 56 Kbps		
2 Year Plan.....	10%	1XYZX
3 Year Plan.....	15%	1XY1X
5 Year Plan.....	20%	1XY2X

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7.5 Rates and Charges (Cont'd)

7.5.8 Digital Data Service (Cont'd)

(D) Optional Features and Functions	<u>Installation Charge</u>	<u>Per Month</u>	<u>USOC</u>
(1) Bridging, per port	-	\$9.57	BCNDA
(2) Loop Transfer Arrangement Key-activated* or Dial-up†), per four-port arrangement#	-	27.64	XTD
(3) Secondary Change Capability			
- Per Channel Termination			
- 2.4 Kbps	ICB	ICB	SSE24
- 4.8 Kbps	ICB	ICB	SSE48
- 9.6 Kbps	ICB	ICB	SSE96
- 56.0 Kbps	ICB	ICB	SSE56

7.5.9 High Capacity Service

(A) Channel Termination,	<u>Nonrecurring Charges</u>			
per point of termination	<u>First</u>	<u>Additional</u>		
1.544 Mbps	\$610.56	\$273.36	247.50	TMECS
3.152 Mbps	ICB		ICB	TWT++
6.312 Mbps	ICB		ICB	TWT++
44.736 Mbps	ICB		ICB	TWT++
274.176 Mbps	ICB		ICB	TWT++

* The key-activated control channel is rated as a Metallic** Termination (C)
(use USOC T6EME in lieu of T6ECS) and Channel Mileage, if applicable (use USOC
1L5MX in lieu of 1L5XX).

† The Dial-up option requires the customer to purchase the Controller Arrangement
(USOC XTDDU) from 13.3.8 following.

An additional Channel Termination Charge will apply whenever a spare channel is
configured as a leg to the customer's premises. Additional channel mileage
charges will also apply when the transfer arrangement is not located in the
customer premises serving wire center.

** Effective December 19, 2013, Metallic Service has been withdrawn and is no (N)
longer available. (N)

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7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(B) Channel Mileage, per mileage band

(1) 64 Kbps	Per Month		
	<u>Fixed</u>	<u>Per Mile</u>	
<u>Mileage Bands</u>			
0*	\$ 11.92	None	1L5TC
Over 0 to 4	13.23	\$ 1.74	1L5XX
Over 4 to 8	15.10	1.27	1L5XX
Over 8 to 25	18.25	1.38	1L5XX
Over 25 to 50	18.25	1.38	1L5XX
Over 50	18.25	1.38	1L5XX
(2) 1.544 Mbps			
Mileage	\$55.00	33.00	1L5XX
(3) 3.152 Mbps			
<u>Mileage Bands</u>			
0	None	None	1LO++
Over 0 to 4	ICB	ICB	1LO++
Over 4 to 8	ICB	ICB	1LO++
Over 8 to 25	ICB	ICB	1LO++
Over 25 to 50	ICB	ICB	1LO++
Over 50	ICB	ICB	1LO++
(4) 6.312 Mbps			
<u>Mileage Bands</u>			
0	None	None	1LO++
Over 0 to 4	ICB	ICB	1LO++
Over 4 to 8	ICB	ICB	1LO++
Over 8 to 25	ICB	ICB	1LO++
Over 25 to 50	ICB	ICB	1LO++
Over 50	ICB	ICB	1LO++

* Applies to through connection of 2.4, 4.8, 9.6, 56.0 and 64 Kbps.

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7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(B) Channel Mileage, per mileage band (Cont'd)

(5) 44.736 Mbps	Per Month		
	<u>Fixed</u>	<u>Per Mile</u>	
<u>Mileage Bands</u>			
0	None	None	1LO++
Over 0 to 4	ICB	ICB	1LO++
Over 4 to 8	ICB	ICB	1LO++
Over 8 to 25	ICB	ICB	1LO++
Over 25 to 50	ICB	ICB	1LO++
Over 50	ICB	ICB	1LO++

(6) 274.176 Mbps

<u>Mileage Bands</u>			
0	None	None	1LO++
Over 0 to 4	ICB	ICB	1LO++
Over 4 to 8	ICB	ICB	1LO++
Over 8 to 25	ICB	ICB	1LO++
Over 25 to 50	ICB	ICB	1LO++
Over 50	ICB	ICB	1LO++

(C) Pricing Plans - 1.544 Mbps

(1) Channel Termination

		<u>Per Month</u>	
Plan 1			
2 Year	0%		1XYAX
3 Year	6.25%		1XYBX
5 Year	12.5%		1XYCX
Plan 2			
2 Year	6.25%		1XYDX
3 Year	12.5%		1XYEX
5 Year	18.75%		1XYFX
Plan 3			
2 Year	12.5%		1XYGX
3 Year	18.75%		1XYHX
5 Year	25%		1XYJX
Plan 4			
2 Year	18.75%		1XYNX
3 Year	25.00%		1XYPX
5 Year	31.25%		1XYQX

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7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(C) Pricing Plans - 1.544 Mbps (Cont'd)

(1) Channel Termination (Cont'd)		Per Month	USOC
Plan 5			
2 Year		25%	1XYRX
3 Year		31.25%	1XYSX
5 Year		37.5%	1XYTX

(2) Channel Mileage (Cont'd)		Per Month		
		Fixed	Per Mile	
Plan 1				
3 Year				
Mileage Bands				
Over 0 to 4	6.25%	6.25%		1A6BS
Over 4 to 8	6.25%	6.25%		1A6BS
Over 8 to 25	6.25%	6.25%		1A6BS
Over 25 to 50	6.25%	6.25%		1A6BS
Over 50	6.25%	6.25%		1A6BS
5 Year				
Mileage Bands				
Over 0 to 4	12.5%	12.5%		1A6CS
Over 4 to 8	12.5%	12.5%		1A6CS
Over 8 to 25	12.5%	12.5%		1A6CS
Over 25 to 50	12.5%	12.5%		1A6CS
Over 50	12.5%	12.5%		1A6CS
Plan 2				
2 Year				
Mileage Bands				
Over 0 to 4	6.25%	6.25%		1A6DS
Over 4 to 8	6.25%	6.25%		1A6DS
Over 8 to 25	6.25%	6.25%		1A6DS
Over 25 to 50	6.25%	6.25%		1A6DS
Over 50	6.25%	6.25%		1A6DS
3 Year				
Mileage Bands				
Over 0 to 4	12.5%	12.5%		1A6ES
Over 4 to 8	12.5%	12.5%		1A6ES
Over 8 to 25	12.5%	12.5%		1A6ES
Over 25 to 50	12.5%	12.5%		1A6ES
Over 50	12.5%	12.5%		1A6ES

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7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(C) Pricing Plans - 1.544 Mbps (Cont'd)

(2) Channel Mileage (Cont'd)	Per Month		
	<u>Fixed</u>	<u>Per Mile</u>	
Plan 2 (Cont'd)			
5 Year			
Mileage Bands			
Over 0 to 4	18.75%	18.75%	1A6FS
Over 4 to 8	18.75%	18.75%	1A6FS
Over 8 to 25	18.75%	18.75%	1A6FS
Over 25 to 50	18.75%	18.75%	1A6FS
Over 50	18.75%	18.75%	1A6FS
Plan 3			
2 Year			
Mileage Bands			
Over 0 to 4	12.5%	12.5%	1A6GS
Over 4 to 8	12.5%	12.5%	1A6GS
Over 8 to 25	12.5%	12.5%	1A6GS
Over 25 to 50	12.5%	12.5%	1A6GS
Over 50	12.5%	12.5%	1A6GS
3 Year			
Mileage Bands			
Over 0 to 4	18.75%	18.75%	1A6HS
Over 4 to 8	18.75%	18.75%	1A6HS
Over 8 to 25	18.75%	18.75%	1A6HS
Over 25 to 50	18.75%	18.75%	1A6HS
Over 50	18.75%	18.75%	1A6HS
5 Year			
Mileage Bands			
Over 0 to 4	25%	25%	1A6JS
Over 4 to 8	25%	25%	1A6JS
Over 8 to 25	25%	25%	1A6JS
Over 25 to 50	25%	25%	1A6JS
Over 50	25%	25%	1A6JS
Plan 4			
2 Year			
Mileage Bands			
Over 0 to 4	18.75%	18.75%	1A6NS
Over 4 to 8	18.75%	18.75%	1A6NS
Over 8 to 25	18.75%	18.75%	1A6NS
Over 25 to 50	18.75%	18.75%	1A6NS
Over 50	18.75%	18.75%	1A6NS

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SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(C) Pricing Plans - 1.544 Mbps (Cont'd)

(2) Channel Mileage (Cont'd)	Per Month		
	<u>Fixed</u>	<u>Per Mile</u>	
Plan 4 (Cont'd)			
3 Year			
Mileage Bands			
Over 0 to 4	25%	25%	1A6PS
Over 4 to 8	25%	25%	1A6PS
Over 8 to 25	25%	25%	1A6PS
Over 25 to 50	25%	25%	1A6PS
Over 50	25%	25%	1A6PS
5 Year			
Mileage Bands			
Over 0 to 4	31.25%	31.25%	1A6QS
Over 4 to 8	31.25%	31.25%	1A6QS
Over 8 to 25	31.25%	31.25%	1A6QS
Over 25 to 50	31.25%	31.25%	1A6QS
Over 50	31.25	31.25%	1A6QS
Plan 5			
2 Year			
Mileage Bands			
Over 0 to 4	25%	25%	1A6RS
Over 4 to 8	25%	25%	1A6RS
Over 8 to 25	25%	25%	1A6RS
Over 25 to 50	25%	25%	1A6RS
Over 50	25%	25%	1A6RS
3 Year			
Mileage Bands			
Over 0 to 4	31.25%	31.25%	1A6SS
Over 4 to 8	31.25%	31.25%	1A6SS
Over 8 to 25	31.25%	31.25%	1A6SS
Over 25 to 50	31.25%	31.25%	1A6SS
Over 50	31.25%	31.25%	1A6SS
5 Year			
Mileage Bands			
Over 0 to 4	37.5%	37.5%	1A6TS
Over 4 to 8	37.5%	37.5%	1A6TS
Over 8 to 25	37.5%	37.5%	1A6TS
Over 25 to 50	37.5%	37.5%	1A6TS
Over 50	37.5%	37.5%	1A6TS

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SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)
(D) Optional Features and Functions

(1) Multiplexing, per arrangement	<u>Installation Charge</u>	<u>Per Month</u>	<u>USOC</u>
DS4 to DS1, DS3 to DS1, DS2 to DS1 or DS1C to DS1	-	*	(U)
DS1 to Voice†, per arrangement ...	-	\$270.81	MQ1
DS1 TO DS0, per arrangement	-	424.34	QMU
Conversion to Secondary Channel Capability, per Arrangement Converted.....	*	*	SFS
DS0 to Subrates, per arrangement			
Up to twenty 2.4 kbps services.....	-	235.74	QSU24
Up to ten 4.8 kbps services..	-	117.39	QSU48
Up to five 9.6 kbps services.....	-	92.35	QSU96
(2) Automatic Loop Transfer, per arrangement#	-	330.69	T59
(3) Transfer Arrangement, key-activated or dial-up††, per four-port arrangement, including control channel termination##	-	155.10	USV

* Rates and charges apply on an individual case basis.

† A channel of this DS1 to the hub can be used for a Digital Data Service.

An additional Channel Termination charge will apply whenever the spare line is provided as a leg to the customer premises.

** The key-activated control channel is rated as a Metallic*** T6EME (T)
Termination, and Channel Mileage, if applicable. IL5MX (C)

†† The dial-up option requires the customer to purchase the XTDDU
Controller Arrangement as specified in 13.3.8 following.

An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customer's premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer premises serving wire center

*** Effective December 19, 2013, Metallic Service is withdrawn and no longer (N)
available. (N)

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SPECIAL ACCESS SERVICE

7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)	<u>Installation Charge</u>	<u>Per Month</u>	<u>USOC</u>
(4) Clear Channel Capability (CCC), per Channel Termination	*	*	
(5) Extended Super Frame (ESF), per Channel Termination	*	*	
(E) Network Channel Terminating Equipment, per point of termination where provided			
1.544 Mbps		64.87	TN615
Automatic Loop Transfer		761.37	TN6AL

7.5.10 INTELLIMUX Service

	<u>Nonrecurring Charges</u>		
(a) Service Establishment	ICB	-	NRBNS
(b) Database Modification, per occasion ..	ICB	-	FN6DC
(c) Telephone Company Performed Reconfiguration			
- Each 30 minute increment per occasion	ICB	-	NRBNR
(d) Ports, per channel			
(1) Voice Grade or DDS Port†	ICB	ICB	PT5
(2) DS1 Port	ICB	ICB	PT6

* Rates and charges apply on an individual case basis.

† An additional Channel Termination Charge will apply whenever the spare line is provided as a leg to the customer premises.

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7.5 Rates and Charges (Cont'd)

7.5.11 Digital Data Service- 2.4 Kbps Five Year
Rate Stability Plan

		<u>Per Month</u>	<u>USOC</u>
(A) Channel Termination,			
per point of termination	Charge is as specified in 7.5.8(A) pre- ceding for 2.4 kbps Channel Termination.	\$42.58	TJ5AX
		<u>Per Month</u>	
(B) Channel Mileage	<u>Fixed</u>	<u>Per Mile</u>	
per mileage band			
0	None	None	1A5AX
Over 0 to 4	\$22.08	\$1.41	1A5AX
Over 4 to 8	\$23.92	\$0.70	1A5AX
Over 8 to 25	\$26.36	\$0.58	1A5AX
Over 25 to 50	\$32.23	\$0.47	1A5AX
Over 50	\$33.70	\$0.44	1A5AX
		<u>Per Month</u>	
		\$9.57	B5N5X