
C7-A. SPECIAL ACCESS SERVICE

7.1 GENERAL (Cont'd)

7.1.1 CHANNEL TYPES (Cont'd)

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

Following is a brief description of each type of channel:

Voice Grade¹ - a channel for the transmission of analog signals within an approximate bandwidth of 300 to 3000 Hz. (C)

Program Audio² - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 200 to 3500 Hz, from 100 to 5000 Hz, from 50 to 8000 Hz or from 50 to 15000 Hz. (C)

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 is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 MHz. .

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

Note 2: See Section 7.9 for Program Audio Service availability and discontinuance. (N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.1 GENERAL (Cont'd)

7.1.1 CHANNEL TYPES (Cont'd)

Digital Data¹ - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6, 56 or 64 kbps. (C)

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 C7.5 through C7.12 following.

The customer also has the option of ordering Voice Grade¹ and High capacity facilities (i.e., 1.544 Mbps, 3.152 Mbps, 6.312 Mbps, 44.736 Mbps and 274.176 Mbps) to a Utility hub for multiplexing to individual channels of a lower capacity or bandwidth. (C)
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 C7.7 and C7.12 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 features and functions available are also set forth in C7.2.1 following.

For example, a customer may order a 3.152 Mbps High Capacity channel from a customer designated premises to a Utility 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 Grade¹ channels or may be extended to other customer designated premises. (C)
Optional features may be added to either the 1.544 Mbps or the Voice Grade¹ channels. (C)

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.1 GENERAL 7.1.2 SERVICE DESCRIPTIONS

For the purposes of ordering, the categories of Special Access Service are:

Voice Grade ¹ (VG)	(C)
- WATS Access Line ¹ (WAL)	
Program Audio ² (AP)	(C)
Video (TV)	
Digital Data ¹ (DA)	(C)
High Capacity (HC)	

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. Technical specifications packages and optional features and functions are described in this section. Channel interfaces are described in C15.3 following.

Customized technical specifications packages will be provided where technically feasible. If the Utility 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, between a customer designated premises and a Utility hub where bridging or multiplexing functions are performed or between a customer designated premises and a WATS Serving Office.

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

Note 2: See Section 7.9 for Program Audio Service availability and discontinuance.

(N)
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(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.1 GENERAL (Cont'd)

7.1.2 SERVICE DESCRIPTIONS (Cont'd)

A. Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Special Access Service. The letter "C" following the two letter code indicates the technical specifications package for a customized service. The letter "W" following the two letter code indicates the technical specifications package for a voice grade¹ Special Access Service used in the provision of WATS¹ or WATS¹-type Service using a Utility designated WATS serving office. A numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

(C)
(C)

B. Channel interfaces at each Point of Termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in C15.3 following in a combination format.

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

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.

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)
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(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.1 GENERAL (Cont'd)

7.1.2 SERVICE DESCRIPTIONS (Cont'd)

E. The Utility will maintain existing transmission specifications on services installed prior to the effective date of this tariff except that existing services with performance specifications exceeding the standards listed in this provision will be maintained at the performance levels specified in this tariff.

F. 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 ¹	TR-NPL- 000335	(C)
	PUB 41004, Table 4	
- WATS Access Line ¹	TR-NPL- 000334	(C)
Program Audio ²	TR-NPL- 000337	(C)
Video	TR-NPL- 000338	
Digital Data ¹	PUB 62507	(C)
	PUB 62310	
High Capacity		
	PUB 62411	
	TY-TSY- 000342	

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

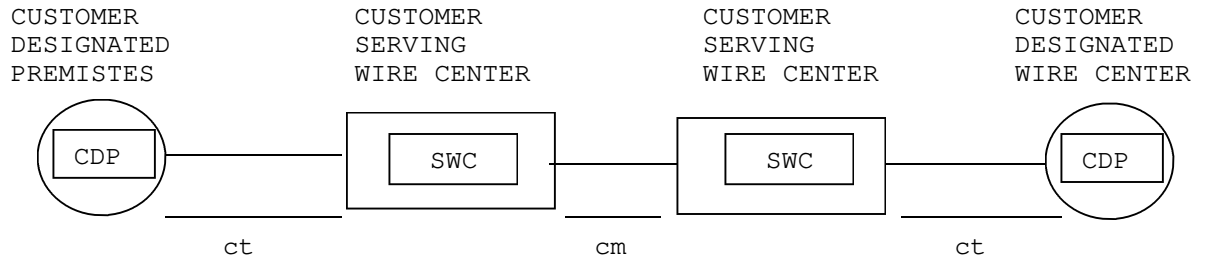
Note 2: See Section 7.9 for Program Audio Service availability and discontinuance.

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

- 7.1 CENERAL (Cont'd)
- 7.1.3 SERVICE CONFIGURATIONS (Cont'd)
- A. TWO-POINT SERVICE (Cont'd)

The following diagram depicts a two-point Voice Grade¹ service (C)
connecting two customer designated premises (CDP) located 15 miles
apart. The service is provided with C-Type Conditioning.



OPTIONAL FEATURES AND FUNCTIONS
C-TYPE CONDITIONING

Applicable rate elements are:

- Channel Terminations (applicable one [1] per CDP)
- Channel Mileage (1 section, Channel Mileage Facility per mile plus 2 Channel Mileage Terminations)
- C-Type Conditioning Optional Feature

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

ACCESS SERVICE

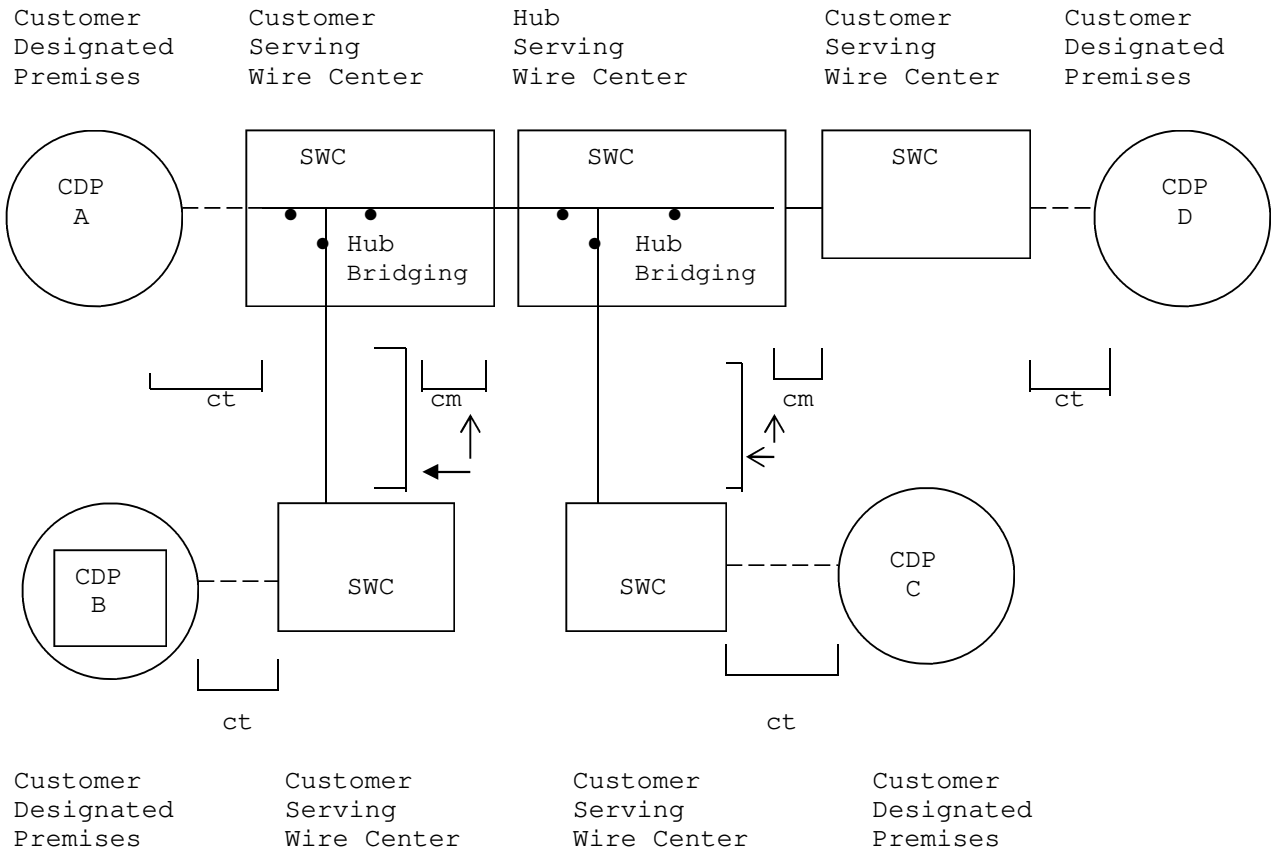
C7-A. SPECIAL ACCESS SERVICE

7.1 GENERAL (Cont'd)

7.1.3 SERVICE CONFIGURATIONS (Cont'd)

B. MULTIPOINT SERVICE (Cont'd)

Example: Voice Grade¹ multipoint service connecting four customer designated premises (CDP) via two customer specified bridging hubs. (C)



CT - Channel Termination
CM - Channel Mileage

Applicable rate elements are:

- Channel Terminations (applicable one [1] per CDP)
- Channel Mileage (1 section, Channel Mileage Facility per mile plus 2 Channel Mileage Terminations)
- C-Type Conditioning Optional Feature

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.1 GENERAL (Cont'd)

7.1.7 ACCEPTANCE TESTING (Cont'd)

- A. For Voice Grade¹ 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 Grade¹ services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature. (C)
- B. For other analog services (i.e., Program Audio² and Video) and for digital services (i.e., Digital Data¹ and High Capacity), acceptance tests will include tests for the parameters applicable to the service as specified by the customer in the order for service. (C)

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade¹ Service to test other parameters, as described in C13.3.5.B following, is available at the customer's request. All tests results will be made available to the customer upon request. (C)

7.1.8 ORDERING OPTIONS AND CONDITIONS

Special Access Service is ordered under the Access Order provisions set forth in C5. 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.).

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

Note 2: See Section 7.9 for Program Audio Service availability and discontinuance. (N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.2 RATE REGULATIONS

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

7.2.1 RATE CATEGORIES

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

- Channel Terminations (described in C7.2.1.A following)
- Channel Mileage (described in C7.2.1.B following)
- Optional Features and Functions (described in C7.2.1.C following)

A. CHANNEL TERMINATION

The Channel Termination rate category provides for the communications path between a customer designated premises and the serving wire center of that premises. It also provides for the unrecovered portion of inside wire investment assigned to Special Access Service.

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 is provided as an optional feature as set forth in C. following. One Channel Termination charge applies per customer designated premises at which the channel is terminated. For WATS Access Line¹ Service, only one Channel Termination applies for service. This charge will apply even if the customer designated premises and the serving wire center are collocated in a Utility building.

(C)

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.2 RATE REGULATIONS

7.2.3 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 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 recurring rates that apply to each 24 hour period or fraction thereof that a Program Audio¹ or Video Special Access Service (C) is provided for part-time use. For purposes of applying daily rates, the 24 hour period is not limited to a calendar day.

Part-time Video or Program Audio¹ Service provided within a (C) consecutive 30 day period will be charged the daily rate, not to exceed an amount equal to the monthly rate. For each subsequent day or part day, a charge equal to 1/30th of the monthly rate shall apply.

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.

Note 1: See Section 7.9 for Program Audio Service availability and discontinuance.

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.2 RATE REGULATIONS (Cont'd)

7.2.3 TYPES OF RATES AND CHARGES (Cont'd)

C. NONRECURRING CHARGES (Cont'd)

1. Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set forth for each channel type as a nonrecurring charge for the Channel Termination.

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 non recurring charges apply are:

- Voice Grade¹ Data Capability
- Voice Grade¹ Telephoto Capability
- Program Audio² Gain Conditioning

(C)
|
(C)

3. Service Rearrangements

Service rearrangements are changes to existing (installed) services which may be administrative only in nature, as set forth following, or that involve actual physical change to the service. Changes to pending orders are set forth in 5.2.2 preceding.

Changes in the physical location of the point of termination or customer designated premises are moves as set forth in 7.2.4 following.

Changes in the type of Service or Channel Termination which result in a change of the minimum period requirement will be treated as a discontinuance of the service and an installation of a new service. Changes in ownership or transfer of responsibility from one customer to another will be treated as a discontinuance of the service and an installation of a new service. In the event the change in ownership or transfer of responsibility as set forth in 2.1.2(A) preceding where there is no change in facilities or arrangements, the change will be treated as an administrative change without charge to the customer.

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

Note 2: See Section 7.9 for Program Audio Service availability and discontinuance.

(N)

ACCESS SERVICES

C7-A. SPECIAL ACCESS SERVICE

- 7.2 RATE REGULATIONS (Cont'd)
7.2.3 TYPES OF RATES AND CHARGES (Cont'd)
C. NONRECURRING CHARGES (Cont'd)

For all other changes, including the addition of optional features or functions without a separate nonrecurring charge, a charge equal to a channel termination nonrecurring charge will apply. Only one such charge will apply.

7.2.4 MOVES

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

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

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

A. MOVES WITHIN THE SAME BUILDING

When the move is to a new location within the same building, or a change of connecting facility assignment in the same central office other than DS-1 or DS-3 rollover rearrangements as described in 7.2.2(C) (3) preceding, the charge for the move will be an amount equal to one half of the nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirements.

B. MOVES TO 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.

7.2.5 MINIMUM PERIODS

The minimum service period for all services is one month, except DS3 High Capacity Service under a 1-year, 3-year or 5-year billing period, and part-time Video and Program Audio² services. (C)

- A. The minimum service period for part-time Video and Program Audio² services is one day (i.e., a continuous 24-hour period, not limited to a calendar day). (C)

- B. The minimum service period for DS3 (44.746 Mbps) High Capacity Special Access Service is a 1-year term plan. After the 1-year, 3-year or 5-year⁽¹⁾ billing period is satisfied, the customer must select a renewal option as referenced in 7.12.4.1.

(1) Effective on April 16, 2019, DS3 High Capacity Service 5-year Payment Plans are no longer available, including for any otherwise available renewals, extensions or conversions. Circuits already subject to a DS3 High Capacity Service 5-year Payment Plan, as of April 16, 2019, will continue to be provided under the then-current DS3 High Capacity Service 5-year Payment Plan term for the remainder of that term.

(2) See Section 7.9 for Program Audio Service availability and discontinuance. (N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.2 RATE REGULATIONS

7.2.6 MILEAGE MEASUREMENT

The mileage to be used to determine the monthly rate for the Channel Mileage Facility 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 Utility hub, two Utility hubs or between the serving wire center associated with a customer designated premises and a WATS Serving Office. The serving wire center associated with a customer designated premises is the serving wire center from which this customer designated premises would normally obtain dial tone.

Mileage charges are shown with each channel type. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4, then multiply the resulting number of miles times the Channel Mileage Facility per mile rate, and add the Channel Mileage Termination rate for each termination. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage 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 or multiplexing (e.g., the Utility 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.

7.2.7 FACILITY HUBS

A customer has the option of ordering Voice Grade¹ service or High Capacity services (i.e., DS1, DS1C, DS2, DS3 or DS4) to a facility hub for channelizing to individual services requiring lower capacity facilities (e.g., Voice¹, Program Audio², etc.). (C)

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

Note 2: See Section 7.9 for Program Audio Service availability and discontinuance. (N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.2 RATE REGULATIONS (Cont'd)

7.2.7 FACILITY HUBS (Cont'd)

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 placing an Access Order the customer will specify the desired hub. The NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF FCC No. 4 identifies serving wire centers, hub locations and the type of multiplexing functions available.

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

Point to point services may be provided on channels of these services to a hub. The transmission performance for the point to point service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps channel is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade¹, not High Capacity. (C)

The Utility will commence billing the monthly rate for the service to the hub on the date specified by the customer on the Access Order. Individual channels utilizing these services may be installed coincident with the installation of the service to the hub or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for a Voice Grade¹ or a High Capacity Channel Termination, Channel Mileage (when applicable), and the multiplexer at the time the service is installed. Individual service rates (by service type) will apply for a Channel Termination and additional Channel Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed. (C)

Cascading multiplexing occurs when a High Capacity service is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a 6.312 Mbps High Capacity service is de-multiplexed to four DS1 channels and then one of the DS1 channels is further de-multiplexed to 24 individual Voice Grade¹ channels. (C)

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.2 RATE REGULATIONS (Cont'd)

7.2.7 FACILITY HUBS (Cont'd)

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

The Utility will designate hubs for Video and Program Audio¹ Services. Full-time or part-time service may be provided between customer designated premises or between a customer designated premise and a hub and billed accordingly at the monthly rates set forth in C7.9 and C7.10 following for a Channel Termination, Optional Features and Functions, and Channel Mileage, as applicable. When the service is ordered to a hub, the customer may order a full-time or part-time Video and Program Audio¹ service as needed between that hub and additional customer designated premises. The rate elements required to provide the part-time 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. (C)

7.2.8 SHARED USE ANALOG AND DIGITAL HIGH CAPACITY SERVICES

Shared use refers to a rate application applicable only when the customer orders High Capacity facilities between a customer designated premises and a Utility hub where the Utility performs multiplexing/demultiplexing functions and the same customer then orders the derived channels as Special and Switched Access Services.

The High Capacity facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexing Arrangement). 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. Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for providing Switched Access Service. Individual service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the shared use facility.

Note 1: See Section 7.9 for Program Audio Service availability and discontinuance. (N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.2 RATE REGULATIONS (Cont'd)

7.2.8 SHARED USE ANALOG AND DIGITAL HIGH CAPACITY SERVICES (Cont'd)

When Special Access Service is provided utilizing a channel of the shared use facility to a hub, High Capacity rates and charges will apply for the facility to the hub, as set forth preceding, and individual service rates and charges will apply from the hub to the customer designated premises. The rates and charges that will apply to the portion from the hub to the customer designated premises will be dependent on the specific type of Special Access Service that is provided (e.g., Voice Grade¹, etc.). The applicable rates and charges will include a Channel Termination and Channel Mileage, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply for the appropriate channel type. (C)

As each individual channel is activated for Switched Access Service, the High Capacity Special Access Channel Termination and Channel Mileage rates will be reduced accordingly (e.g., 1/24th for a DS-1 service, 1/672th for DS-3 service etc.). In addition, if multiplexing is associated with the service under optional features and functions, the multiplexor will also be reduced accordingly.

Switched Access Service rates and charges, as set forth in 6.8 preceding, will apply for each channel of the shared use facility that is used to provide a Switched Access Service.

The customer must place an order for each individual Switched or Special Access Service utilizing the Shared Use Facilities and specify the channel assignment for each service.

7.2.9 EXTENSION OF WATS ACCESS SERVICE¹

(C)

WATS Access Service is available with extensions, i.e., additional terminations, of the service at different customer designated premises in the same or different LATAs. • Extensions are provided and charged for as separate Voice Grade Special Access Service. The rate elements which apply are: WATS Access Line Channel Termination, Channel Mileage, if applicable, and Signalling Capability (Optional Features and Functions), if applicable. All appropriate charges as set forth in C7.7 following will apply.

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.6 DIGITAL DATA OVER VOICE¹

(C)

7.6.1 BASIC CHANNEL DESCRIPTION

A Digital Data Over Voice (DDOV) service allows the simultaneous transmission of either synchronous or asynchronous data at the speed of 9.6 kbps. A DDOV Channel Termination is provided as a derived channel of a customer's existing local exchange voice grade service local loop facility. The customer may transmit data over the DDOV service simultaneously with a voice transmission. The customer must provide a compatible data voice multiplexer at the designated customer premises.

DDOV is provided where suitable local loop facilities are available subject to the transmission limitations of the facilities and equipment used by the Utility.

The end user must have a single party, analog voice band, local exchange telephone line in service at the time the order of the DDOV is placed.

DDOV must be ordered in conjunction with High Capacity Multiplexing, DS-1 to Voice/Digital as set forth in 7.12.4 (B) (5).

7.6.2 TECHNICAL SPECIFICATIONS PACKAGES

The technical specifications for DDOV service and the customer provided data voice multiplexer are delineated in Technical Reference, PUB L-780080-PB/NB.

7.6.3 CHANNEL INTERFACES

Compatible channel interfaces are set forth in Technical Reference PUB L-780080-PB/NB.

7.6.4 OPTIONAL FEATURES AND FUNCTIONS

There are no optional features and functions available with DDOV service.

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.6 DIGITAL DATA OVER VOICE¹ (Cont'd)

(C)

7.6.5 RATES AND CHARGES

(A) Channel Termination - Per Termination	Monthly		Rate
	USOC	Rate	
- 9.6 kbps	T6OVS	\$38.00	\$482.53

(B) Channel Mileage

Channel Mileage will be charged at the corresponding channel mileage rates for Digital Data Service in Section 7.10.4(B) following.

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.7 VOICE GRADE SERVICE²

(C)

7.7.1 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, between a customer designated premises and a Utility hub, or between a customer designated premise and a WATS serving office (WSO).

7.7.2 TECHNICAL SPECIFICATIONS PACKAGES

Parameter	C ¹	Package VG											<u>W</u>	
		1	2	3	4	5	6	7	8	9	10	11		
Attenuation														
Distortion	X	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	X
Echo Control	X	X	X	X		X		X	X				X	X
Envelope Delay														
Distortion	X						X	X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X	X
Impulse Noise	X					X	X	X	X	X	X	X	X	X
Intermodulation														
Distortion	X						X	X	X	X	X	X	X	X
Loss Deviation	X	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	X	X
Signal-to-C														
Message Noise					X									
Signal-to-C														
Notch Noise	X					X	X	X	X	X	X	X	X	X

NOTE 1: The desired parameters are selected by the customer from the list of available parameters.

NOTE 2: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.7 VOICE GRADE SERVICE¹ (Cont'd)

(C)

7.7.2 TECHNICAL SPECIFICATIONS PACKAGES (Cont'd)

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference TR-NPL-000334 and TR-NPL-000335. The technical specifications for dropouts, phase hits, and gain hits are delineated in Technical Reference PUB 41004, Table 4.

7.7.3 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 C15.3 following.

7.7.4 OPTIONAL FEATURES AND FUNCTIONS

A. CENTRAL OFFICE BRIDGING CAPABILITY

1. Voice Bridging (two-wire and four-wire)
2. Data Bridging (two-wire and four-wire)

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.7 VOICE GRADE SERVICE¹ (Cont'd)

(C)

7.7.4 OPTIONAL FEATURES AND FUNCTIONS (Cont'd)

B.

C. 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 mid link or end link. C-Type conditioning and Data Capability may be combined on the same service.

In addition, a customer may desire that either the attenuation distortion or the envelope delay distortion, or both, be improved to more stringent specifications than those provided for standard C-Type conditioning. In such cases the customer has the option of ordering either Improved Attenuation Distortion or Improved Envelope Delay Distortion, or both, as desired.

1. 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 delineated in Technical Reference TR-NPL-000335.

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.7 VOICE GRADE SERVICE² (Cont'd)

7.7.4 OPTIONAL FEATURES AND FUNCTIONS (Cont'd)

C. CONDITIONING (Cont'd)

(C)

2. Improved Attenuation Distortion¹

Improved Attenuation Distortion upgrades the frequency versus loss limits of the channel. The technical specifications for Improved Attenuation Distortion are delineated in Technical Reference TR-NPL-000335.

3. Improved Envelope Delay Distortion¹

Improved Envelope Delay Distortion upgrades the frequency versus delay response limits of the channel. The technical specifications for Improved Envelope Delay Distortion are delineated in Technical Reference TR-NPL-000335.

4. Sealing Current Conditioning

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

D. CUSTOMER SPECIFIED PREMISES RECEIVE LEVEL

This option allows the customer to specify the receive level at the Point of Termination. The level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference TR-NPL000335.

NOTE 1: Improved Attenuation Distortion and Improved Envelope Delay Distortion will continue to be provided to all customers who were provided with either or both of these optional features in conjunction with C-Type Conditioning prior to January 1, 1989.

NOTE 2: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.7 VOICE GRADE SERVICE¹ (Cont'd)

(C)

7.7.4 OPTIONAL FEATURES AND FUNCTIONS (Cont'd)

E. IMPROVED RETURN LOSS

1. 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. Utility equipment is required at the customer's premises where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference TR-NPL000335.
2. 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 Utility equipment may be required at the customer's premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference TR-NPL000335.

F. DATA CAPABILITY (D CONDITIONING)

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 three-point multipoint services.

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

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

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

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.7 VOICE GRADE SERVICE¹ (Cont'd)

(C)

7.7.4 OPTIONAL FEATURES AND FUNCTIONS (Cont'd)

G. 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)	Envelope Delay Distortion
Frequency Variation Range (Hz) (dB)	Frequency Variation Range (Hz) (mcs)
500-3000 -0.5 to +1.5	1000-2600 110
300-3200 -1.0 to +2.5	800-2800 180

H. SIGNALING CAPABILITY

Signaling Capability provides for the ability to transmit signals from one customer premises to another customer premises on the same service.

I.

J.

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.7 VOICE GRADE¹ SERVICE (Cont'd) (C)
7.7.4 OPTIONAL FEATURES AND FUNCTIONS (Cont'd)

K. PUBLIC PACKET SWITCHING NETWORK (PPSN) INTERFACE ARRANGEMENT

An arrangement that provides the interface requirements that permit a Voice Grade service to interface with a Public Packet Switching Network packet switch located in a Utility premises. The interface is compatible with X.25 and X.75 packet switching protocols as defined by the CCITT.

L. FOUR-WIRE/TWO-WIRE CONVERSIONS

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

M. IMPROVED TWO-WIRE VOICE TRANSMISSION

1. Loss Deviation

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

2. Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 280 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +6.0 dB.

3. C-Message Noise

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

Route Miles	C-Message Noise	
less than 50	35 dBrnc0	(T)
51 to 100	37 dBrnc0	
101 to 200	40 dBrnc0	
201 to 400	43 dBrnc0	
401 to 1000	45 dBrnc0	

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.7 VOICE GRADE SERVICE¹

(C)

7.7.5 WATS ACCESS LINE (WAL) SERVICE¹

(C)

A. BASIC SERVICE DESCRIPTION

A WATS Access Line Service provides a service for voice frequency transmission capability. The service provides a connection between a customer designated premises and a WATS serving office associated with the closed end of 800 Service or WATS. Originating access is provided with Feature Group C or D Switched Access Service as set forth in C6-A preceding. Terminating access is provided with Feature Group A, B, C or I) as set forth in C6-A preceding.

WAL Service can be arranged for screening, blocking and directionality at the option of the customer and where available. It is provided with either rotary dial or dual tone multifrequency address signaling and either loop start, ground start, E&M, or reverse battery supervisory signaling. The choice of the type of signaling is at the option of the customer and subject to the technical limitations identified in the Technical Reference TR-NPL-000334. WATS Access Line Service is provided as an effective two-wire, or an effective four-wire transmission path.

WAL Service is provided for intrastate communications only. All originating intrastate intraLATA calls will be blocked.

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.7 VOICE GRADE¹ SERVICE (Cont'd)

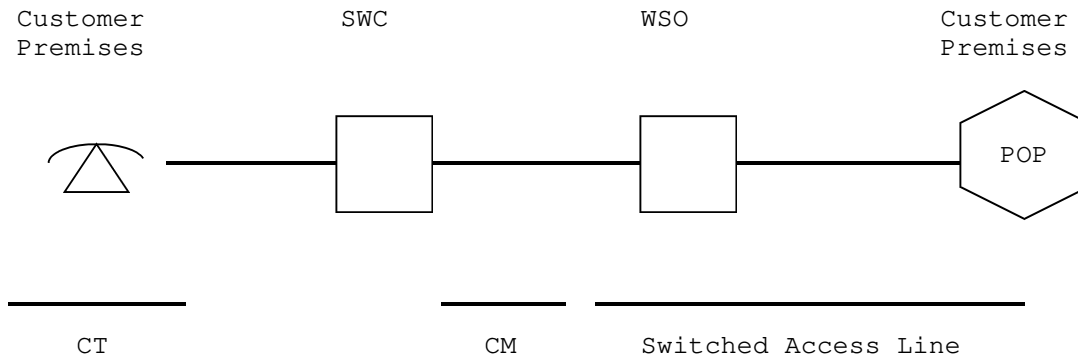
(C)

7.7.5 WATS ACCESS LINE¹ (WAL) SERVICE (Cont'd)

(C)

A. (Cont'd)

The following diagram depicts a WATS Access Line service:



CT - Channel Termination
CM - Channel Mileage
SWC - Serving Wire Center
WSO - WATS Serving Office
POP - Point of Presence

Applicable Rate Elements are:

CT - Channel Termination (1 applicable)
CM - Channel Mileage
- Optional Features and Functions when ordered
(per channel termination)

B. TECHNICAL SPECIFICATIONS

Technical specifications and examples of application are delineated in Technical Reference TR-NPL-000334.

C. CHANNEL INTERFACE

Compatible channel interfaces are set forth in Technical Reference TR-NPL-000334.

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.7 VOICE GRADE SERVICE¹ (Cont'd) (C)

7.7.5 WATS ACCESS LINE (WAL) SERVICE¹ (Cont'd) (C)

D. OPTIONAL FEATURES AND FUNCTIONS

- (1) Improved two-wire voice transmission specifications
- (2) Certain other options associated with WAL Services are as either Line Termination or Common Switching optional features as defined in C6-A preceding.
- (3) WATS Access Lines use the same Features and Functions as Voice Grade Service.

The following table shows the services with which the Optional Features and Functions are available.

	Available with Technical Specifications Package WALs-					
	EA	EB	ED	EG	FA	FJ
Effective 2-Wire	X				X	X
Effective 4-Wire		X		X		
Improved 2-Wire Voice Transmission					X	X
Improved Return Loss 2-Wire						X
Digital DS1 Bridging Capability	X	X	X	X	X	X

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

C7-A. SPECIAL ACCESS SERVICE

7.7 VOICE GRADE SERVICES² (C)

7.7.6 RATES AND CHARGES

	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	<u>USOC</u>	
A. CHANNEL TERMINATION	N01	R01		
Per Termination				
- Two-Wire	\$200.00	\$21.65 (I)	T6E2X	VX
- Four-Wire	200.00	21.65 (I)	T6E2X	VX
WATS Access Line ^{1, 2}				(C)
Per point of Termination				
Two-wire with screening and blocking	200.00	21.65 (I)	X2W	
Four-Wire with screening and blocking	200.00	21.65 (I)	X4W	
WATS Access Line ^{1, 2}				(C)
Per point of Termination				
Two-wire with no screening and blocking	500.00	16.04	2UW	
Four-Wire with no screening and blocking	500.00	24.68	4UW	
B. CHANNEL MILEAGE				
		<u>Monthly Rate</u>	<u>USOC</u>	
1. Channel Mileage Facility		R04		
-per mile		\$.440000	CMF/1L5XX	
	VX			
2. Channel Mileage Termination		R03		
-per termination		\$8.90	CMT/1L5XX	
	WB			
		Double rate to bill		
		For 2 terminations		

NOTE 1: WATS Access Lines use the same Features and Functions as Voice Grade Services.

NOTE 2: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.7 VOICE GRADE SERVICE¹ (Cont'd) (C)
7.7.6 RATES AND CHARGES (Cont'd)

C. OPTIONAL FEATURES AND FUNCTIONS

	<u>Nonrecurring</u> <u>Charges</u>	<u>Monthly</u> <u>Rates</u>	<u>USOC</u>
1. Bridging			
a. Voice Bridging			
Two-Wire/Four Wire			
Per port			
- Two-Wire	None	\$ 2.72	BCNV2
- Four-Wire	None	\$ 3.42	BCNV4
b. Data Bridging			
Two-Wire/Four Wire			
Per port			
- Two-Wire	None	\$ 2.72	BCND2
- Four-Wire	None	\$ 3.42	BCND4

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

- 7.7 VOICE GRADE SERVICE² (Cont'd) (C)
7.7.6 RATES AND CHARGES (Cont'd)
C. OPTIONAL FEATURES AND FUNCTIONS (Cont'd)

	<u>Nonrecurring Charges</u>	<u>Monthly Rates</u>	<u>USOC</u>
2. Conditioning			
Per termination			
- C - Type	None	\$ 3.79	X1CPT
- Improved Attenuation Distortion ¹	\$180.80	\$ 3.42	UHW
- Improved Envelope	\$287.06	\$26.83	UHY
Delay Distortion ¹			
Sealing Current	None	None	1HBPT
3. Improved Return Loss			
For Effective Two-Wire or Four-Wire Transmission			
Per termination			
- Two-Wire	None	\$ 8.24	1RL2W
- Four-Wire	None	\$ 8.20	1RL4W
4. Customer Specified			
Received Level			
- Per two-wire termination	None	None	RLS

NOTE 1: Improved Attenuation Distortion and Improved Delay Distortion will continue to be provided to all customers who were provided with either or both of these optional features in conjunction with C-Type Condition prior to January 1, 1989.

NOTE 2: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.11 DIGITAL DATA SERVICE¹

(C)

7.11.1 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, 56 or 64 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 Utility through the Utility's facilities to the customer in the received bit stream. Digital Data channels are only available via Utility designated hubs and are provided between customer designated premises or between a customer designated premises and a Utility hub or hubs.

(T)

Digital Data Service may also be ordered in conjunction with High Capacity (DS-1) to Analog/Digital (DS-0) multiplexing as set forth in 7.12.4(B) (5) following, and not be required to route through a Digital Data Service Hub. With this arrangement optional features and functions of Digital Data Service are not available.

The customer will 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.

7.11.2 TECHNICAL SPECIFICATIONS PACKAGES

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

The Utility will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) 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.

* 64 kbps Service is only available with High Capacity Multiplexing DS1 to Voice/Digital as set forth in 7.12.4(B) (5) following. 64 kbps is only available where technically feasible.

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.11 DIGITAL DATA SERVICE¹

(C)

7.11.3 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-96	9.6 kbps
DU-56	56.0 kbps
DU-56A	64.0 kbps

Compatible channel interfaces are set forth in C15.3 following.

7.11.4 OPTIONAL FEATURES AND FUNCTIONS

A. CENTRAL OFFICE BRIDGING CAPABILITY

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

(N)

C7-A. SPECIAL ACCESS SERVICE

7.11 DIGITAL DATA SERVICE¹ (Cont'd)

(C)

7.11.4 OPTIONAL FEATURES AND FUNCTIONS (Cont'd)

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

Technical Package	Available with Specifications			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Central Office Bridging Capability	X	X	X	X

7.11.5 RATES AND CHARGES

	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>	<u>USOC</u>
A. CHANNEL TERMINATION			
Per termination			
- 2.4 kbps	\$ 71.00	250.00	T6ECS
- 4.8 kbps	71.00	250.00	T6ECS
- 9.6 kbps	71.00	250.00	T6ECS
- 56.0 kbps	71.00	250.00	T6ECS
- 64.0 kbps	71.00	250.00	T6ECS

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)
|
(N)

C7-A. SPECIAL ACCESS SERVICE

7.11 DIGITAL DATA SERVICE¹ (Cont'd) (C)
7.11.5 RATES AND CHARGES (Cont'd)

B. CHANNEL MILEAGE

	<u>Monthly Rates</u>	<u>USOC</u>
1. Channel Mileage Facility		
	R01=0.0	
	R02=0.0	
Per Mile	R04	
- 2.4 kbps	\$.72	1L5XX/CMF/DX
- 4.8 kbps	.72	1L5XX/CMF/DX
- 9.6 kbps	.72	1L5XX/CMF/DX
-56.0 kbps	.72	1L5XX/CMF/DX
-64.0 kbps	.72	1L5XX/CMF/DX
2. Channel Mileage Termination		
Per Termination	R03	
- 2.4 kbps	\$13.00	1L5XX/CMT/DX
- 4.8 kbps	13.00	1L5XX/CMT/DX
- 9.6 kbps	13.00	1L5XX/CMT/DX
- 56.0 kbps	13.00	1L5XX/CMT/DX
- 64.0 kbps	13.00	1L5XX/CMT/DX
		<u>Double Rates</u>

C. OPTIONAL FEATURE AND FUNCTIONS

	<u>Nonrecurring Charges</u>	<u>Monthly Rate</u>	<u>USOC</u>
1. Bridging		R01	
Per port	None	\$16.51	BCNDA

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.11 DIGITAL DATA SERVICE¹ (Cont'd)

(C)

7.11.5 RATES AND CHARGES (Cont'd)

C. OPTIONAL FEATURES AND FUNCTIONS (Cont'd)

<u>Nonrecurring</u> <u>Charges</u>	<u>Monthly</u> <u>Rates</u>	<u>USOC</u>
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ICB Rates are filed in C7.13 following.

Note 1: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)

(N)

ACCESS SERVICE

C7-A. SPECIAL ACCESS SERVICE

7.12 HIGH CAPACITY SERVICE

7.12.3 CHANNEL INTERFACES

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

CI	Bit Rate	
DS-15 ¹	1.544 Mbps (DS1)	(C)
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 C15.3 following.

7.12.4 OPTIONAL FEATURES AND FUNCTIONS

Note 1: Effective September 30, 2021, 64.0 Kbps Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (N)

C7-A. SPECIAL ACCESS SERVICE

7.12 HIGH CAPACITY SERVICE I (Cont'd)

7.12.5 RATES AND CHARGES (Cont'd)

C. OPTIONAL FEATURES AND FUNCTIONS

	<u>Nonrecurring Charges</u>	<u>Monthly Rates</u>	<u>USOC</u>
1. Multiplexing, per arrangement		R01	
- DS4 to DS1	None	ICB ²	MXA++
- DS3 to DS1*			
Month to Month	None	\$425.00	MQ3
Monthly Extension	None	\$425.00	MQ3
1-Year	None	\$420.00	MQ3
3-Year	None	\$410.00	MQ3
5-Year ⁴	None	\$400.00	MQ3
- DS2 to DS1	None	ICB	MXD++
- DS1C to DS1	None	ICB	MXH++
- DS1 to Voice ¹	None	\$170.00	MQ1
- DS1 to DS0	None	170.00	QMU/QMUA1 ³
- DS0 to Subrates ⁵			(C)
- Up to 20 2.4 kbps services	None	175.00	QSU24
- Up to 10 4.8 kbps services	None	175.84	QSU48
- Up to 5 9.6 kbps services	None	124.84	QSU96

* This option will no longer be available for new circuits provisioned on or after, November 21, 2003. There will be no change to existing circuits.

NOTE 1: A channel of this DS1 to the Multiplexing Hub can be used for Digital Data service

NOTE 2: ICB rates and charges are filed in C7.13 following.

NOTE 3: Both USOCs are used in CABS and CRIS billing systems.

NOTE 4: Effective on April 16, 2019, DS3 High Capacity Service 5-year Payment Plans are no longer available, including for any otherwise available renewals, extensions or conversions. Circuits already subject to a DS3 High Capacity Service 5-year Payment Plan, as of April 16, 2019, will continue to be provided under the then-current DS3 High Capacity Service 5-year Payment Plan term for the remainder of that term.

NOTE 5: Effective September 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(N)
|
(N)