

SPECIAL SERVICES

2. General

Special Services are communications channels which connect customer premises, serving wire centers or combinations thereof. Channels may be provided in the same wire center or in different wire centers on a two-point or multipoint basis. Connections will be made directly through a serving wire center or through a Telephone Company Hub. Special Services include all LATA access channels and all intraLATA channels not utilizing Telephone Company end office switches.

The connections provided by Special Services can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate. The specific types of services (e.g., Metallic*, Voice Grade) provided under Special Services are described in 2.1 following. (C)

2.1. Channel Types

Each type of channel used to provide Special Services has its own characteristics. All are subdivided by one or more of the following:

- 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 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 data transmission in this Tariff, there is no restriction against doing so.

* As of October 31, 2014, Metallic Service is no longer available to new customers. Existing customers may maintain their channels, however, term commitment plans will not be renewed. Moves, Adds or Changes to subscribers' existing channels are permissible. (C)

SPECIAL SERVICES

2. General (Cont'd)2.1 Channel Types (Cont'd)

Following is a brief description of each type of channel:

Metallic* and Metallic Equivalent* - a channel for the transmission of low speed varying signals at rates up to 30 band. (C)

Metallic Data* - a channel utilizing non-loaded facilities normally suitable for the transmission of digital data signals. (C)

Telegraph Grade* - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud. (C)

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

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

Digital Service - 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 Services (except High Capacity Digital Hand-off service) formerly contained in this tariff have been declared competitive by the Pennsylvania Public Utility Commission's order in Docket P-00950929. These services are now located in PA Informational Tariffs.

A cross reference list of channels by series and types as previously listed in Pa. P.U.C.-No. 1, Section 12, Channels, can be found in 2.2 following.

Detailed descriptions of each of the channel types are provided in 3. following.

The customer also has the option of ordering Digital High Capacity facilities (available in the Product Guide for Competitive Services (FBA Tariff No. 500) available at www.verizon.com/tariffs under Pennsylvania Non-Tariff Documents) 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 the Product Guide for Competitive Services (FBA Tariff No. 500) available at www.verizon.com/tariffs under Pennsylvania Non-Tariff Documents. 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 available are also set forth in 3. following.

* As of October 31, 2014, Metallic and Metallic Equivalent Service, Metallic Data, Telegraph Grade Service and Program Audio Service are no longer available to new customers. Existing customers may maintain their channels, however, term commitment plans will not be renewed. Moves, Adds or Changes to subscribers' existing channels are permissible. (C)

SPECIAL SERVICES

2. General (Cont'd)
2.1 Channel Types (Cont'd)

For example, a customer may order a 1.544 Mbps channel and multiplex it at the same or a different Hub to Voice Grade channels or it may be extended to other customer designated premises. Optional features may be added to either the 1.544 Mbps or the Voice Grade Channels.

2.2 Cross Reference GuideOLD
TERMINOLOGYNEW
TERMINOLOGY

Type

1005	*A half-duplex or full-duplex interface operation engineered for a signal speed up to 75 baud; for two-point or multipoint service; normally suitable for:		(C)
	low-speed data transmission, remote operation of radiotelephone, teletypewriter, teletypesetter and data	TELEGRAPH GRADE	(C)
	supervisory control and miscellaneous signaling purposes	METALLIC	(C)
1006	*A half-duplex or full-duplex interface operation engineered for a signal speed up to 150 baud; for two-point service; normally suitable for:		
	low-speed data transmission used for teletypewriter and data	TELEGRAPH GRADE	(C)
	supervisory control and miscellaneous signaling purposes	METALLIC	(C)
1011	*A two-wire interface with two-wire facilities suitable for direct current transmission (metallic continuity) with signaling speeds not to exceed 30 baud; for two-point or three-point service within the same exchange only; normally suitable for special signaling purposes.	METALLIC*	(C)
1012	*A two-wire interface with two-wire facilities suitable for low speed unidirectional series-operated signaling not to exceed 30 baud; for intraexchange multipoint service and interexchange two-point or multipoint service; normally suitable for special signaling purposes. The Telephone Company will notify the customer of	METALLIC* EQUIVALENT	(C)
*	As of October 31, 2014, Metallic, Metallic Equivalent and Telegraph Grade Service (Series 1000) are no longer available to new customers. Existing customers may maintain their channels, however, term commitment plans will not be renewed. Moves, Adds or Changes to subscribers' existing channels are permissible.		(C)

(C) Indicates change.

SPECIAL SERVICES

2. General (Cont'd)

2.2 Cross Reference Guide (Cont'd)

OLD
TERMINOLOGYNEW
TERMINOLOGY

Type

1012	the type of facility arrangement (metallic* channels or by other means, where available and at the discretion of the Telephone Company) to be supplied prior to initial installation or subsequent change in facility arrangements.	(C)
2001	A two-wire interface with effective two-wire facilities engineered for a 1000 Hz loss objective of 0 to 10 dB; or a four-wire interface with four-wire facilities engineered for a 1000 Hz loss objective of 0 to 16 dB; for two-point or multi-point service, normally suitable for use for <u>private line telephone service</u> .	VOICE GRADE
2002	A two-wire interface with effective two-wire facilities or a four-wire interface with four-wire facilities designed for <u>remote operation of mobile radiotelephone systems</u> ; for two-point or multipoint service.	VOICE GRADE
2012	Furnished for <u>Centrex off-premises main and bridged station</u> uses.	VOICE GRADE
2014	A two-wire interface with effective two-wire facilities furnished for <u>PBX (or similar) off-premises main and extension service</u> used with PBX's: for two point service, with signaling arrangements.	VOICE GRADE
2021	A two-wire or four-wire interface with four-wire facilities furnished for <u>tie line use between PBX's</u> ; for two-point service, with signaling arrangements.	VOICE GRADE
2025	A two-wire or four-wire interface with four-wire facilities furnished for <u>tie line use between a PBX and a C.O. Centrex</u> ; for two-point service, with signaling arrangements.	VOICE GRADE

* As of October 31, 2014, Metallic Service (Series 1000) is no longer available to new customers. Existing customers may maintain their channels, however, term commitment plans will not be renewed. Moves, Adds or Changes to subscribers' existing channels are permissible.

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(C) Indicates change.

SPECIAL SERVICES

(C)

2. General (Cont'd)

2.2 Cross Reference Guide (Cont'd)

OLD
TERMINOLOGY

NEW
TERMINOLOGY

Type

2026	Furnished for <u>tie line use between C.O. Centrexes</u> ; for two-point service.	VOICE GRADE
2043	A two-wire interface with effective two-wire facilities engineered for a 1000 Hz loss objective of 0 to 4 dB; normally suitable for Telephone Answering Service <u>concentrator-identifier</u> use between a concentrator unit located at either the Telephone Company or the Telephone Answering Service premises and an identifier unit located at the Telephone Answering Service premises.	VOICE GRADE
3001	A two-wire interface with effective two-wire facilities or a four-wire interface with four-wire facilities engineered for a 1000 Hz loss objective of 16 dB; for two-point or multipoint service; normally suitable for half-duplex or full-duplex operation, for <u>remote metering</u> , <u>supervisory control</u> and <u>miscellaneous signaling</u> .	VOICE GRADE
3002	A two-wire interface with effective two-wire facilities or a four-wire interface with four-wire facilities engineered for 1000 Hz loss objective of 16dB; for two-point or multipoint service; normally suitable for <u>half or full-duplex data transmission</u> .	VOICE GRADE
3040	A two-wire interface with effective two-wire facilities between a Telephone Company Central Office and a customer service location, presenting a nominal -30 dBm station receive level and accepting a 0 dBm station transmit level; normally suitable for <u>Select-A-Station</u> use between the Data Station Selector and remote premises.	VOICE GRADE

(C) Indicates change.

ISSUED AUGUST 1, 1986.

EFFECTIVE JANUARY 1, 1987.

By J. J. Doherty, Jr., Vice-President, One Parkway, Philadelphia, Pa.

In compliance with the Order of the Pennsylvania Public Utility Commission
of August 9, 1985 in P-830452.

SPECIAL SERVICES

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2. General (Cont'd)

2.2 Cross Reference Guide (Cont'd)

OLD
TERMINOLOGY

NEW
TERMINOLOGY

Type

3041	A four-wire interface with four-wire facilities between a station location and a Telephone Company Central Office, presenting a nominal -16 dBm station receive level and accepting a 0 dBm station transmit level; normally suitable for <u>Select-A-Station</u> use; access lines between the Master Station and the Data Station Selector or between Data System Selectors.	VOICE GRADE
6005	A two-wire interface with effective two-wire facilities engineered for a 1000 Hz maximum loss of 32 dB and <u>equalized to +3 dB</u> of the 1000 Hz loss <u>from 100 to 5000 Hz</u> , arranged for unidirectional operation; normally suitable for <u>audio transmission</u> .	PROGRAM AUDIO
6007	A two-wire interface with effective two-wire facilities engineered for a 1000 Hz maximum loss of 32 dB and <u>equalized to +3 dB</u> of the 1000 Hz loss of approximately <u>50 to 8000 Hz</u> , arranged for unidirectional operation; normally suitable for <u>audio transmission</u> .	PROGRAM AUDIO
6009	A two-wire interface with effective two-wire facilities engineered for a 1000 Hz maximum loss of 32 dB and <u>equalized to +3 dB</u> of the 1000 Hz loss of approximately <u>50 to 15000 Hz</u> , arranged for unidirectional operation; normally suitable for <u>audio transmission</u> .	PROGRAM AUDIO
6011	A two-wire interface with effective two-wire facilities engineered for a 1000 Hz maximum loss of 12 dB <u>without equalization</u> , arranged for unidirectional operation; normally suitable for <u>audio transmission</u> .	PROGRAM AUDIO

(C) Indicates change.

ISSUED AUGUST 1, 1986.

EFFECTIVE JANUARY 1, 1987.

By J. J. Doherty, Jr., Vice-President, One Parkway, Philadelphia, Pa.

In compliance with the Order of the Pennsylvania Public Utility Commission
of August 9, 1985 in P-830452.

SPECIAL SERVICES

2. General (Cont'd)2.2 Cross Reference Guide (Cont'd)OLD
TERMINOLOGYNEW
TERMINOLOGY

Type

6020	*A two-wire interface with effective two-wire facilities engineered for a 1000 Hz maximum loss of 14 dB without equalization; arranged for unidirectional operation; normally suitable for wired music distribution.	PROGRAM* AUDIO	(C)
6021	*A two-wire interface with effective two-wire facilities engineered for a 1000 Hz maximum loss objective of 34 dB and equalized to +4 dB of the 1000 Hz loss from approximately 100 to 5000 Hz, arranged for unidirectional operation; normally suitable for wired music distribution.	PROGRAM* AUDIO	(C)
6022	*A two-wire interface with effective two-wire facilities engineered for a 1000 Hz maximum loss of 34 dB and equalized to +4 dB of the 1000 Hz loss from approximately 50 to 8000 Hz, arranged for unidirectional operation; normally suitable for wired music distribution.	PROGRAM* AUDIO	(C)
9001	*A two-wire interface with two-wire non-loaded facilities with insertion loss objectives dependent upon facility length and frequency as specified in the table following; for two-point service within the same central office district only; normally suitable for the transmission of digital data signals. Furnished for two-wire Local Area Data Service.	METALLIC*	(C)
9002	*A four-wire interface with four-wire non-loaded facilities with insertion loss objectives dependent upon facility length and frequency as specified in the table following; for two-point service within the same central office district only; normally suitable for the transmission of digital data signals. Furnished for four-wire Local Area Data Service.	METALLIC*	(C)
1.544	Megabits Per Second (Mbps) High Capacity Channels	HIGH CAPACITY	
	Digital Data Service	DIGITAL SERVICE	
	Digital Connect Service	DIGITAL SERVICE	

* As of October 31, 2014, Metallic Service (Series 9000) and Program Audio (Series 6000) are no longer available to new customers. Existing customers may maintain their channels, however, term commitment plans will not be renewed. Moves, Adds or Changes to subscribers' existing channels are permissible. (C)

(C) Indicates change.

ISSUED OCTOBER 1, 2014

EFFECTIVE OCTOBER 31, 2014

SPECIAL SERVICES

2. General (Cont'd)

2.3 Rate Element Classifications

Rates for Special Services are based on combinations of the following four basic rate element classifications:

- Local Channels
- Channel Mileage
- H H H (C)
- Transmission Functions
- Optional Features

(A) Local Channel

The Local Channel rate classification provides a communications path between a customer premises and the wire center serving that premises. The local channel rates will vary according to the cell assigned to the central office district in which the local channel resides. The cells are the same as those developed for Business Dial Tone Lines.

The cell designation is identified in the following sections of the Local Exchange Tariffs:

<u>Tariff</u>	<u>Coverage Area</u>	<u>Cell Density Designation</u>
Pa. P.U.C.-No. 180A	All of Pennsylvania exchange except as noted below	Paragraph B.4
Pa. P.U.C.-No. 182	Philadelphia Exchange Area	Paragraph E.2
Pa. P.U.C.-No. 182A	Philadelphia Suburban Exchange Area	Paragraph E.2
Pa. P.U.C.-No. 185B	Pittsburgh Exchange Area	Paragraph E.2
Pa. P.U.C.-No. 185C	Pittsburgh Suburban Exchange Area	Paragraph E.2

Local channel rates are provided in 6. following.

SPECIAL SERVICES

2. General (Cont'd)

2.3 Rate Element Classifications (Cont'd)

(B) Channel Mileage

The Channel Mileage rate classification provides for the transmission facilities between the serving wire centers associated with customers' premises, between a serving wire center associated with a customer premises and a Telephone Company Hub, between two Telephone Company Hubs or any combination thereof. Channel Mileage is portrayed in mileage bands. There are two rates that apply for each band, i.e., a fixed rate per band and a rate per mile.

H

H

H

(C)

(D) Transmission Function

The transmission function rate classification is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the service is to be connected, and the type of signaling capability, if any. Transmission Functions will be applied as follows:

- one per termination at a customer premises for services provided via High Capacity or through a Telephone Company bridging, multiplexing or Digital Data Service Hub. Select-A Station and Telemetry and Alarm Bridging Services are provided via bridging Hubs.
- one per termination at a customer premises for connection to the Public Data Network (PDN) Service.
- two per Special Services channel not provided as above when the channel terminates at:
 - two customer premises
 - one customer premises and one wire center
 - two wire centers

This charge will apply even if the customer premises and the serving wire center are collocated in a Telephone Company building.

SPECIAL SERVICES

2. General (Cont'd)

2.3 Rate Element Classifications (Cont'd)

(E) Optional Features

(C)

The Optional Features rate classification provides for optional features which may be added to a Special 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 features that are available include, but are not limited to, the following:

- Hubbing Functions
- Conditioning
- Transfer Arrangement

Descriptions and rates for each of the available features are set forth in 5. following.

(C) Indicates change.

ISSUED JUNE 30, 1988.

EFFECTIVE AUGUST 29, 1988.

By Edward J. Kennedy, Vice-President, 315 N. 2nd St., Harrisburg, Pa.

SPECIAL SERVICES

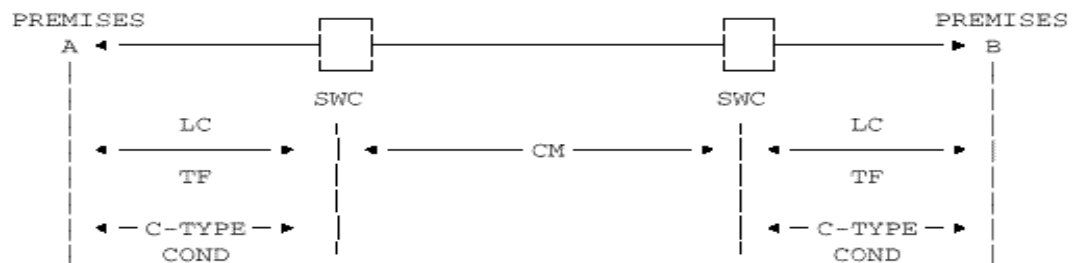
2. General (Cont'd)2.4 Service Configurations

There are two types of configurations over which services are provided in the same or different wire centers: two-point service and multipoint service.

(A) Two-Point Service

A two-point service connects two customer premises, two serving wire centers or any combination thereof, either on a directly connected basis through a serving wire center(s) or through a Hub where multiplexing functions are performed.

- (1) The following diagram depicts a two-point Voice Grade service connecting two customer premises located in different serving wire centers. The service is provided with C-Type Conditioning.



LC - LOCAL CHANNEL
CM - CHANNEL MILEAGE
SWC - SERVING WIRE CENTER
TF - TRANSMISSION FUNCTION

Applicable rate elements are:

- Local Channels (2 applicable)
- Transmission Functions (2 applicable)
- Channel Mileage (fixed rate + rate per mile)
- Optional Features C-Type Conditioning (2 applicable)

Note: Local Channels are not applicable for the portion(s) of a service which terminates in a wire center(s) and does not extend to a customer's premises. All other rate elements are applicable.

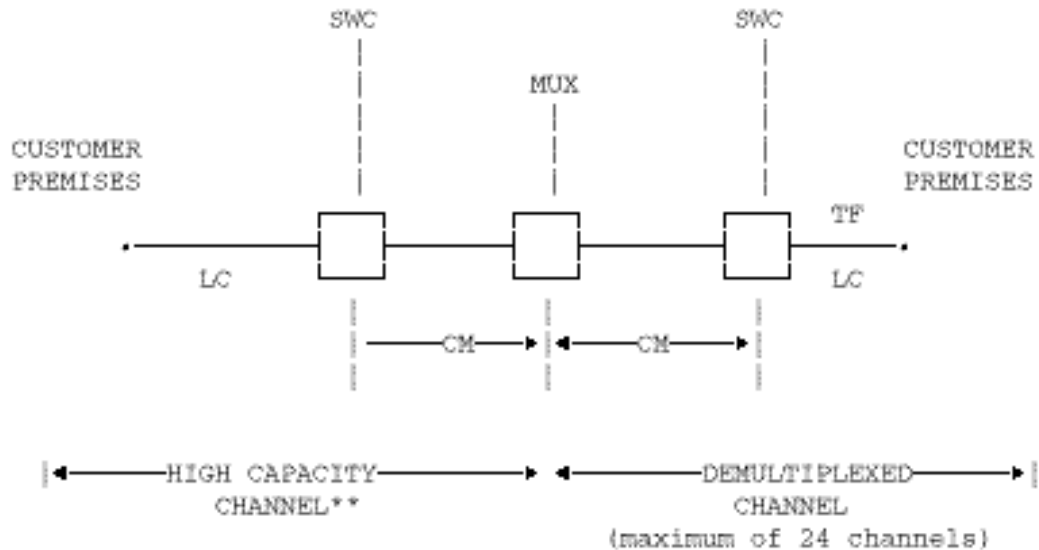
SPECIAL SERVICES

2. General (Cont'd)

2.4 Service Configurations (Cont'd)

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

- (2) The following diagram depicts a two-point service connecting two customer premises through a Hub where multiplexing functions are performed.



LC - LOCAL CHANNEL
CM - CHANNEL MILEAGE
TF - TRANSMISSION FUNCTION
SWC - SERVING WIRE CENTER
MUX - MULTIPLEXOR HUB

Applicable rate elements are:

High Capacity Channel**

(C)

- Local Channel (1 applicable)

H

H

H

(C)

- Channel Mileage (rate per mile)
- Multiplexing Arrangement (1 applicable)

Demultiplexed Channel -

- Local Channel (1 applicable)
- Multiplexing Arrangement (1 applicable)
- Channel Mileage (fixed rate + rate per mile)

** High Capacity Services are available in Informational Tariff Pa. P.U.C. No. 500.

(C)
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SPECIAL SERVICES

2. General (Cont'd)

2.4 Service Configurations (Cont'd)

(B) Multipoint Service

Multipoint service connects three or more customer premises through a Telephone Company Hub. Only certain types of service are provided as multipoint service. These are so designated in the Service Descriptions set forth in 3. following. When ordering multipoint service, the customer is responsible for selecting the bridging Hub(s) from the list of available Hub locations which is set forth in the Exchange Access Tariff. F.C.C. No 4.

(C)

The number of stations that may be connected and the distance over which satisfactory transmission is possible may be limited by operating and transmission factors.

Multipoint LATA access service utilizing a customized technical specifications package as set forth in 3. 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 multipoint service is furnished, bridging equipment or arrangements are required. Additional rates and charges for such equipment or arrangements are specified in 6. following where applicable.

Rates for multipoint service are based on combinations of the following rate elements:

- Local Channels (one per customer premises)
- Transmission Functions (one per customer premises)
- Channel Mileage (as applicable)
- Bridging (as applicable)
- Optional Features (as applicable)

(C) Other Configurations

Channels which have special configurations are described in the regulations applicable to the specific services.

(C) Indicates change.

ISSUED AUGUST 12, 1987.

EFFECTIVE OCTOBER 11, 1987.

By J. J. Doherty, Jr., Vice-President, One Parkway, Philadelphia, Pa.

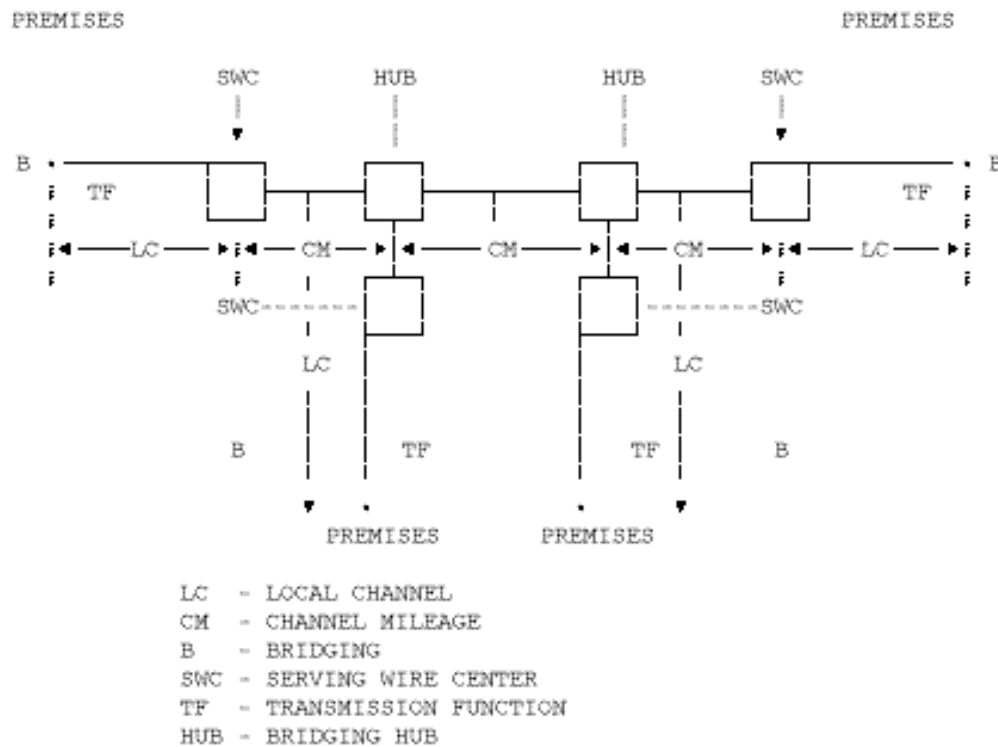
SPECIAL SERVICES

2. General (Cont'd)

2.4 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

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



Applicable rate elements are:

- Local Channel (4 applicable)
- Transmission Functions (4 applicable)
- Channel Mileage (5 sections, each from appropriate mileage band) See Mileage Measurements in 5.5 following.
- Bridging (4 applicable, i.e., each premises)

SPECIAL SERVICES

2. General (Cont'd)2.5 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.

Voice grade channels may be arranged for different types of transmission on an alternate use basis, i.e., as telegraph grade* channels or as different types of voice grade channels. (C)

The monthly charge applicable to a channel used alternately for another purpose is the higher of the channel charges applicable to the uses involved. In addition to the established channel charges, the charges shown in 6.4(D) (2) (c) following apply at each of two service points for the alternate use.

If a change, addition, deletion or rearrangement of the channel and/or the equipment necessary to provide suitable transmission and signaling is required, charges based on costs apply in addition to the monthly charges shown following.

If automatic switching or alternate use involving more than two service points is desired, it will be furnished where feasible at additional charges based on the costs involved.

2.6 Special Facilities Routing

Services furnished under this Tariff are provided over such routes as the Telephone Company may elect.

A customer may request that the facilities used to provide Special Service be specially routed. The regulations, rates and charges for Special Facilities Routing are based on costs and are in addition to all other rates and charges which may be applicable under this Tariff.

2.7 Special Construction

When the components required to provide service are not available, and when mutually agreeable to the customer and Telephone Company, special construction may be undertaken to provide the required service. The customer requesting channel services requiring special construction of facilities is liable for the costs incurred for that portion of the facilities not deemed to be reusable by another customer in the manner or quantity furnished. Tariff rates for the type of service provided are applicable in addition to the charges for the special construction. Additional regulations pertaining to Special Construction for LATA access services are set forth in Pa. P.U.C.-No. 302, Part 14, and in Pa. P.U.C.-No. 1, Section 1, General Regulations, for intraLATA services.

* As of October 31, 2014, Telegraph Grade Service is no longer available to new customers. Existing customers may maintain their channels, however, term commitment plans will not be renewed. Moves, Adds or Changes to subscribers' existing channels are permissible. (C)

SPECIAL SERVICES

2. General (Cont'd)2.8 Design Layout Report For LATA Access Services

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 LATA 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.

2.9 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., Metallic*, Telegraph* and Program Audio*) and for digital services, 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 Part 13 of Pa. P.U.C.-No. 302, is available at the customer's request. All test results will be made available to the customer upon request.

* As of October 31, 2014, Metallic and Telegraph Grade Service and Program Audio are no longer available to new customers. Existing customers may maintain their channels; however, term commitment plans will not be renewed. Moves, Adds or Changes to subscribers' existing channels are permissible.

Material formerly on this page now appears on Page 21.1.

(C) Indicates change.

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SPECIAL SERVICES

2. General (Cont'd)2.10 Ordering Options and Conditions

LATA access service is ordered under the Access Order provisions set forth in Pa. P.U.C.-No. 302, Part 5. Also included in that section are other charges which may be associated with ordering LATA access service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

Regulations pertaining to cancellation or special handling of service requests for intraLATA channels requiring Engineering design are set forth in Pa. P.U.C.-No. 1, Section 1, General Regulations.

The following services utilize copper facilities and will only be provided subject to the availability of suitable copper facilities; in locations where, at the Company's sole discretion, it has determined to upgrade the network and to migrate services away from copper facilities, these services, features and signaling protocols are no longer available: Digital Data Service/Digital Service; Metallic Service; Program Audio Service; Telegraph Grade Service; Voice Grade Services, Ground Start and Reverse Battery Signaling, High Capacity Digital Hand-Off.

(C)

(C) Indicates change.