

SPECIAL SERVICES

3. Service Descriptions

For the purposes of ordering, the categories of Special Services are:

Metallic*	(C)
Telegraph Grade*	(C)
Voice Grade	
Program Audio*	(C)
Digital Service	
High Capacity	
High Capacity/Lightwave	

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

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

When a customized channel is ordered for LATA access service the customer will be notified whether Additional Engineering Charges as described in Pa. P.U.C.-No. 302, Part 13 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 where the channel is provided, i.e., between customer premises or between a customer premises and a Telephone Company Hub where multiplexing functions are performed.

Information pertaining to the technical specifications packages for LATA access services 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 Service to which the parameters are applicable. The letter "C" following the two letter code indicates the technical specifications package for a customized service. A numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

* As of October 31, 2014, Metallic Service, Telegraph Grade 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. (C)

(C) Indicates change.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

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 all must be compatible with a common channel interface at one of the customer premises. Only certain channel interfaces are compatible. These are set forth in 4.5 following in a combination format for LATA access services.

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

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

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

Metallic*	TR-NPL-000336	(C)
Telegraph Grade*	TR-NPL-000336	(C)
Voice Grade	TR-TSY-000335	
	PUB41004, Table 4	
Program Audio*	TR-NPL-000337	(C)
Digital Service	TR-NPL-000341	
	PUB62310	

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The Telephone Company reserves the right to revise technical parameters described herein for any reason but not limited to utilization of new advances in the state of the technical arts or to reflect changes in the design of equipment or services.

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3. Service Descriptions (Cont'd)3.1 Metallic (MT) Service*(A) Basic Channel Description

It is expressly declared that metallic facilities for these services are in decreasing supply and the Telephone Company is not obligated to continue to make available or construct such metallic facilities.

In addition, if modernization programs, growth or maintenance dictate the replacement of existing metallic facilities with non-metallic facilities such as fiber optics, the Company will not be required to continue this service over metallic facilities.

Further, the Telephone Company will not be responsible to the customer or otherwise if changes in any of the facilities of the Telephone Company render any equipment or system of the customer obsolete, affect its use or performance or require the customer to incur any expenses such as but not limited to alterations of such equipment or system or charges associated with changes required in services provided by the Telephone Company.

The following types of Metallic channels will be provided where appropriate metallic or metallic equivalent facilities are available.

(1) Metallic/Metallic Equivalent*

Unconditioned two-wire channels capable of transmitting low speed varying signals at rates up to 30 baud. This channel will be provided by metallic or equivalent facilities between customer premises, between serving wire centers or a combination thereof in the same or different wire center.

These channels will be provided on a two-point and multipoint service basis. Multipoint service is provided with a maximum of 26 points and restricted to a maximum of 3 wire centers.

The Telephone Company will notify the customer if other than metallic facilities are utilized to provide this service prior to installation.

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(C) Indicates change.

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3. Service Descriptions (Cont'd)3.1 Metallic (MT) Service* (Cont'd)(A) Basic Channel Description (Cont'd)(2) Metallic Data Signaling*

Non-loaded two-wire and four-wire facilities will be provided between two points in the same wire center that are not more than six route miles apart as determined by the Telephone Company. These channels are normally suitable for the transmission of digital data signals.

In the event that only loaded facilities are available and the customer desires service, the Telephone Company will de-load the facilities at rates commensurate with costs incurred.

The Telephone Company guarantees that the transmission parameters as shown following will be provided between the points to be served using normal cable routing.

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(C) Indicates change.

ISSUED JANUARY 13, 2026

EFFECTIVE FEBRUARY 13, 2026

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.1 Metallic (MT) Service** (Cont'd)A. Basic Channel Description (Cont'd)(2) Metallic Data Signaling** (Cont'd)INSERTION LOSS OBJECTIVES (dB) WITH
135 OHM TERMINATIONS

Maximum End-to-End Channel Length In Route Miles	Frequency					
	1000 Hz	2400 Hz	4800 Hz	9600 Hz	19200 Hz	38400 Hz
1	10.5	12.0	15.0	19.0	22.5	26.5
2	14.5	16.5	20.5	27.5	35.5	46.0
3	18.0	21.0	27.0	36.5	50.0	67.0
4	21.0	26.0	34.0	46.0	62.5	*
5	23.5	30.5	39.5	53.5	*	*
6	26.5	33.0	43.5	58.5	*	*

* not specified

(a) The insertion loss objectives specified preceding refer to the total channel offering (end-to-end) and indicate that the engineered objective loss will fall within that objective. These specifications do not include gains or losses present in customer-provided equipment.

The Telephone Company reserves the right to revise these objectives and other technical parameters as described herein.

(3) In offering to provide this service, the Telephone Company assumes no obligation to specially select, alter, rearrange or construct facilities and does not represent that a facility provided under this offering is suitable for the intended customer application. Further, in providing this service where existing facilities permit, the Telephone Company assumes no obligation to continue such provision where rearrangements necessitate the elimination of such facilities or render such facilities unsuitable for the customer application.

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ISSUED JANUARY 13, 2026

EFFECTIVE FEBRUARY 13, 2026

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3. Service Descriptions (Cont'd)3.1 Metallic (MT) Service** (Cont'd)(A) Basic Channel Description (Cont'd)(4) Illustrative Applications

Metallic Service is suitable for use as part of the facilities used to provide such service as:

Tariff DescriptionService

Metallic**

Protective Alarm (DC)
Protective Alarm (McCulloh)
Channel Service
Bell and Lights
Siren Control
Protective Relay - Signal Grade

Metallic Equivalent**

Protective Alarm (McCulloh)
Channel Service

Metallic Data Signaling**

Local Area Data

(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package MT-</u>			
	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>
DC Resistance				
Between Conductors	X	X	X	
Loop Resistance	X			X
Shunt Capacitance	X			X

The technical specifications are delineated in Technical Reference PUB 62502.

(C) Channel Interfaces

Compatible channel interfaces are set forth in 4.5(A) following.

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

(a) Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer premises.

(b) Series Bridging of up to 26 customer premises.

* All parameters are available within the ranges selected by the customer where technically feasible.

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SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.1 Metallic (MT) Service** (Cont'd)(D) Optional Features (Cont'd)

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

	<u>Available with Technical Specifications Package MT-</u>			
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>
Three Premises Bridging	X	X		X
Series Bridging	X		X	

3.2 Telegraph Grade (TG) Service**(A) Basic Channel Description

A Telegraph Grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for two-wire or four-wire operation. Telegraph Grade channels are provided between customer premises, between serving wire centers or a combination thereof in the same or different wire centers on a two-point or multipoint basis.

In connection with 0-75 baud channels, where the Telephone Company provides transmission equipment at the interface, the customer must provide a source of continuous 117 volt, 60Hz AC power by means of a nonswitched outlet.

The customer must in all cases provide a source of continuous 117 volt, 60Hz AC power by means of a nonswitched outlet for 0-150 baud channels.

(1) Illustrative Applications

Telegraph Grade Service is suitable for use as part of the facilities used to provide such services as:

<u>Tariff Description</u>	<u>Service</u>
Telegraph Grade 0-75 Baud	Control/Remote Metering- Telegraph Grade Teletypewriter Channel
Telegraph Grade 0-150 Baud	Control/Remote Metering- Telegraph Grade Teletypewriter Channel

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(C) Indicates change.

ISSUED JANUARY 13, 2026

EFFECTIVE FEBRUARY 13, 2026

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.2 Telegraph Grade (TG) Service** (Cont'd)(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package TG-</u>		
	<u>C*</u>	<u>1</u>	<u>2</u>
Telegraph Distortion	X	X	X

The technical specifications are delineated in Technical Reference PUB 62502.

(C) Channel Interfaces

Compatible channel interfaces are set forth in 4.5(B) following.

(D) Optional Features

(1) Telegraph Bridging (two-wire and four-wire)

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

	<u>Available with Technical Specifications Package TG-</u>		
	<u>C</u>	<u>1</u>	<u>2</u>
Telegraph Bridging	X	X	X

3.3 Voice Grade (VG) Service**

(C)

(A) Basic Channel Description

- (1) 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 premises, serving wire centers, Telephone Company Hubs or combinations thereof within the same or in different wire centers.

* All parameters are available within the ranges selected by the customer where technically feasible.

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

(C) Indicates change.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.3 Voice Grade (VG) Service* (Cont'd) (C)(A) Basic Channel Description (Cont'd)

- (2) Channels are provided on a two-point or multipoint basis. 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.
- (3) When multipoint voice grade service is furnished, bridging charges apply for each premises bridged on the same channel in addition to all other applicable charges for the channel.
- (4) Signaling arrangements are furnished on channels used as off-premises stations with grandfathered and registered PBX (or similar) equipment in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations.

Type A - Furnished for use with Class A PBX (or similar) station ports capable of operation over loops with resistance in the range of 0-199 ohms.

Type B - Furnished for use with Class B PBX (or similar) station ports capable of operation over loops with resistance in the range of 200-899 ohms.

Type C - Furnished for use with Class C PBX (or similar) station ports capable of operation over loops with resistance in the range of 900 ohms or more.

- (a) For channel connections to registered PBX (or similar) equipment, customers must specify their requirements for Type A, B, or C signaling arrangements.
- (b) For new channel connections to grandfathered customer-provided equipment, customers may at their option either:
 - (1) Continue to provide their own off-premises service signaling capability; or
 - (2) Specify their requirements for Type A, B, or C signaling arrangements to be furnished by the Telephone Company.

Type A, B, or C signaling arrangements will be furnished in accordance with the specifications provided by the customer; if the customer subsequently requests a change to a different type of signaling arrangement, the request will be treated as a new order for service.

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

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3. Service Descriptions (Cont'd)3.3 Voice Grade (VG) Service* (Cont'd) (C)(A) Basic Channel Description (Cont'd)

- (5) A Signaling Arrangement is provided on channels used as tie lines connected to grandfathered PBXs in accordance with Part 68 of the F.C.C. Rules and Regulations under the following conditions:
 - (a) An E & M Signaling Arrangement is required for each tie line termination, operating in a Dial Repeating mode, at a customer premises with a Registered PBX.
 - (b) An E & M Signaling Arrangement is required for each tie line termination at a customer premises with customer-provided PBXs when the tie line is arranged with an E & M signaling interface.
 - (c) An E & M Signaling Arrangement is not required with channels for additions to or for new installations of customer-provided PBX equipment when not arranged with an E & M signaling interface.
- (6) Voice grade channels are furnished between specified locations for remote operation and control of private land radiotelephone stations established for communications with mobile units. Channels are furnished for voice only and for combined voice and control purposes as follows.
 - (a) For Combined Voice Transmission and Control Purposes
 - (a.1.) Channels furnished for combined voice transmission and control purposes may be used by the customer, in accordance with the normal transmission characteristics of such channels, for voice transmission purposes and to transmit more than one tone or signal in sequence or simultaneously or to create additional channels for remote control and indication purposes only.
 - (a.2.) On two-point services, voice channels may be used alternately for control at no additional charge, where the control function is derived through the use of standard one-way, two-state Direct Current signaling over the voice channel.
 - (a.3.) On multipoint services, two-state, Direct Current signaling for control purposes is provided by means of a separate Metallic channel. Appropriate monthly and nonrecurring charges apply separately for the Metallic and the Voice Grade channel.

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3. Service Descriptions (Cont'd)3.3 Voice Grade (VG) Service* (Cont'd)

(C)

(A) Basic Channel Description (Cont'd)

(6) (Cont'd)

(a) (Cont'd)

(a.4.) On two-point and multipoint services, voice channels may be used for the remote operation and control of private land radiotelephone stations, at no additional charge when the control functions are provided via tone signals.

(b) Additional Equipment and Facilities

Repeaters, amplifiers, special loading, equalization or special types of plant, required in connection with the provision of these channels are furnished at charges based upon the costs incurred.

(7) When Voice Grade Service without signaling is provided for full duplex operation, rates for four-wire local channels apply.

(8) Illustrative Applications

Voice Grade service is suitable for use as part of the facilities used to provide such services as:

<u>Tariff Description</u>	<u>Service</u>
Voice Grade - Without signaling	Private Line Mobile Radio Remote Metering Select-A-Station
Voice Grade With basic signaling	Private Line Centrex Off-Premises Station *PBX Off-Premises Station Concentrator-Identifier Line
Voice Grade - With A, B, or C signaling	PBX Off-Premises Station
Voice Grade - Without E & M signaling at the customer's premises	*PBX-PBX Tie Line *PBX-CTX Tie Line CTX-CTX Tie Line
Voice Grade - With E & M signaling at the customer's premises	*PBX-PBX Tie Line *PBX-CTX Tie Line
Voice Grade Data Transmission	Private Line Data Select-A-Station
* Pre Registration	

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(C)

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(C) Indicates change.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.3 Voice Grade (VG) Service* (Cont'd)

(C)

(B) Technical Specifications Packages

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

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

The technical specifications for these parameters (except for dropouts, gain hits and phase hits) are delineated in Technical Reference PUB 62501 and associated Addendum. The technical specifications for dropouts, phase hits and gain hits are delineated in Technical Reference PUB 41004, Table 4.

(C) Channel Interfaces

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

The following channel interfaces for Voice Grade service do provide 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 4.5(C) following.

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3. Service Descriptions (Cont'd)3.3 Voice Grade (VG) Service* (Cont'd) (C)(D) Optional Features(1) Central Office Bridging Capability

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

(2) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services used as data, mobile radio or telephoto channels.

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 DA-Conditioning may be combined on the same service.

C-Type Conditioning, DA-Conditioning and Telephoto Conditioning are provided for LATA access services.

C1, C2, C4 and D1 Conditioning are provided for intraLATA services.

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SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.3 Voice Grade (VG) Service* (Cont'd)

(C)

(D) Optional Features (Cont'd)(2) Conditioning (Cont'd)(a) LATA Access Services(a.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:

Attenuation Distortion (Frequency Response) Relative to 1004 Hz	
Frequency Range (Hz)	Variation (dB)
400-2800	-1.0 to +2.0
300-3000	-1.0 to +3.0
3000-3200	-2.0 to +6.0

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

(a.2.) DA-Conditioning

DA-Conditioning provides transmission characteristics suitable for data communications. Specifically, DA-Conditioning 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 DA-Conditioning are:

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3. Service Descriptions (Cont'd)3.3 Voice Grade (VG) Service* (Cont'd) (C)(D) Optional Features (Cont'd)(2) Conditioning (Cont'd)(a) LATA Access Services (Cont'd)(a.2.) DA-Conditioning (Cont'd)

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

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

(a.3.) Telephoto Conditioning

Telephoto Conditioning provides transmission characteristics suitable for telephotographic communications. Specifically, Telephoto Conditioning 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 Conditioning are:

<u>Attenuation Distortion</u> (1004 Hz Reference)		<u>Envelope Delay Distortion</u>	
<u>Frequency Range (Hz)</u>	<u>Variation (dB)</u>	<u>Frequency Range (Hz)</u>	<u>Variation (mcs)</u>
500-3000	-0.5 to +1.5	1000-2600	110
300-3200	-1.0 to +2.5	800-2800	180

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SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.3 Voice Grade (VG) Service* (Cont'd) (C)(D) Optional Features (Cont'd)(2) Conditioning (Cont'd)(b) IntraLATA Services(b.1.) C1 Conditioning

For a two-point or multipoint channel

- the envelope delay distortion shall not exceed: between 1000 and 2400 Hertz, a maximum difference of 1000 microseconds
 - the loss deviation with frequency (from 1000 Hertz reference) shall not exceed:
 - between 1000 and 2400 Hertz, -1db to +3db
 - between 300 and 2700 Hertz, -2db to +6db
 - between 2700 and 3000 Hertz, -3db to +12db
- (+ means more loss)

(b.2.) C2 Conditioning

For a two-point or multipoint channel

- the envelope delay distortion shall not exceed:
 - between 1000 and 2600 Hertz, a maximum difference of 500 microseconds
 - between 600 and 2600 Hertz, a maximum difference of 1500 microseconds
 - between 500 and 2800 Hertz, a maximum difference of 3000 microseconds
 - the loss deviation with frequency (from 1000 Hertz reference) shall not exceed:
 - between 500 and 2800 Hertz, -1db to +3db
 - between 300 and 3000 Hertz, -2db to +6db
- (+ means more loss)

Note: On a multipoint channel arranged for switching, conditioning in accordance with the above specifications is applicable only when in the unswitched mode.

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3. Service Descriptions (Cont'd)3.3 Voice Grade (VG) Service* (Cont'd) (C)(D) Optional Features (Cont'd)(2) Conditioning (Cont'd)(b) IntraLATA Services (Cont'd)(b.3.) C4 Conditioning

For a two-point, three point or four-point channel

- the envelope delay distortion shall not exceed:
between 1000 and 2600 Hertz, a maximum difference of 300 microseconds between 800 and 2800 Hertz, a maximum difference of 500 microseconds between 600 and 3000 Hertz, a maximum difference of 1500 difference of 3000 microseconds
- the loss deviation with frequency (from 1000 Hertz reference) shall not exceed:
between 500 and 3000 Hertz, -2db to +3db
between 300 and 3200 Hertz, -2db to +6db
(+ means more loss)

Note: On a three-point or four-point channel, conditioning in accordance with the above specifications is applicable only between one exchange (that designated by the customer as the control point) and each of the other two or three exchanges.

(b.4.) D1 Conditioning

For a two point channel not arranged for switching

- Certain data transmission characteristics necessary for high performance data transmission cannot be assured on all channels generally available for data transmission. However, voice grade data transmission two point channels may be specially arranged to provide for the following technical parameters at the request of the customer:

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SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.3 Voice Grade (VG) Service* (Cont'd) (C)(D) Optional Features (Cont'd)(2) Conditioning (Cont'd)(b) IntraLATA Services (Cont'd)(b.4.) D1 Conditioning (Cont'd)

For a two-point channel not arranged for switching
(Cont'd)

- Signal to C-Notched Noise Ratio 28db
- Nonlinear distortion:
 - (1) signal to second order distortion 35db
 - (2) signal to third order distortion 40db

When the channel equipped with this conditioning is utilized for voice communications, the Telephone Company does not undertake to represent that channel will be suitable for such voice transmission.

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(3) Improved Termination

On Effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference PUB 62501.

(4) Improved Return Loss

On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control Specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference PUB 62501.

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

(C) Indicates change.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.3 Voice Grade (VG) Service** (Cont'd)

(C)

(D) Optional Feature (Cont'd)(5) Transfer Arrangement

This arrangement can be utilized to transfer a leg of a Special Service to another channel that terminates in either the same or a different customer premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare line, if required, is not included as part of the option.

(E) Technical Specifications Packages

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

Available with Technical Specifications Package VG-													
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
C-Type Conditioning Central Office Bridging Capability	X					X	X	X	X	X	X		
Central Office Multiplexing	X						X						
DA-Conditioning	X						X	X			X		
*Improved Return Loss For Effective Four-Wire Transmission	X	X	X	X	X	X	X	X	X	X	X	X	X
For Effective Two-Wire Transmission	X		X	X				X					
Telephoto Conditioning	X											X	
Transfer Arrangement	X	X	X	X	X	X	X	X	X	X	X	X	X

* Effective Four-Wire Transmission with Two-Wire Interface

When a customer requests that an effective Four-Wire channel be terminated with a Two-Wire interface at the customer designated premises, then this optional feature applies. Placement of Telephone Company equipment (hybrid) is required at the customers premises to convert the four-wire channel to a two-wire POT. When this option is ordered, a four-wire channel termination charge applies. Per the Voice Grade Technical References, certain Voice Grade services are always provisioned as effective four-wire and will be billed as a Four-Wire channel termination.

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

(C) Indicates change.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.4 Program Audio (AP) Service*(A) Basic Channel Description

A Program Audio channel is a channel measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. This service includes audio and wired music channels specially equipped for the closed circuit (non-broadcast) transmission of voice and music signals in one direction only.

Program Audio channels are provided between customer premises, between serving wire centers or combinations thereof on a two-point and multipoint basis. When Program Audio Channels are furnished for multipoint service, a bridging charge applies for each premises bridged on the same channel in addition to all other applicable charges for the channel.

These channels may require the use of non-loaded cable facilities. In the event that only loaded facilities are available, the Telephone Company will, at the customer's request, de-load the facilities at charges commensurate with the costs incurred.

(1) Illustrative Applications

Program Audio service is suitable for use as part of the facilities used to provide such service as:

<u>Tariff Description</u>	<u>Service</u>
Program Audio - Non equalized 200 - 3500 Hz	Audio Transmission Paging - One Way Wired Music Distribution
Program Audio - Equalized 100 - 5000 Hz	Audio Transmission Wired Music Distribution
50 - 8000 Hz	Audio Transmission Wired Music Distribution
50 - 15000 Hz	Audio Transmission Wired Music Distribution

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

(C) Indicates change.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.4 Program Audio (AP) Service** (Cont'd)(B) Technical Specifications Packages

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

The technical specifications are delineated in Technical Reference PUB 62503 and associated Addendum.

(C) Channel Interfaces

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

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

Compatible channel interfaces are set forth in 4.5(D) following.

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

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

(C) Indicates change.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.4 Program Audio (AP) Service* (Cont'd)(D) Optional Features(1) Gain Conditioning

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

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

	<u>Available with Technical Specifications Package AP-</u>				
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Gain Conditioning	X	X	X	X	X

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

(C) Indicates change

ISSUED JANUARY 13, 2026

EFFECTIVE FEBRUARY 13, 2026

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.5 Digital Service*

(C)

(A) Digital Data (DA)(1) Basic Channel Description

Digital Data Service provides for the duplex four-wire transmission of digital signals at synchronous speeds of 2.4, 4.8, 9.6 or 56 kilobits per second (kbps) between and within Digital Serving Areas. The actual bit rate is a function of the channel interface selected by the customer.

The service is furnished for duplex operation on a twenty-four hour per day, seven day per week basis, for a minimum period of one month. The service will provide a standard interface to the customer's interface.

Customer-provided terminal equipment, customer-provided derivation equipment and customer-provided communications systems may be connected with facilities furnished for Digital Data Service subject to the regulations set forth in Section 31 of Pa. P.U.C.-No. 1.

(a) Digital Serving Areas

Digital Data Service is available only to locations served from specially equipped Telephone Company hubs which serve locations between and within Digital Serving Areas.

Digital Data channels are only available via Telephone Company designated hubs and are provided between customer Rate Demarcation Points (RDP's) or between a customer Rate Demarcation Point (RDP) and a Telephone Company hub.

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

(C)
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(C)

(C) Indicates change.

ISSUED JANUARY 13, 2026

EFFECTIVE FEBRUARY 13, 2026

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.5 Digital Service* (Cont'd)

(C)

(A) Digital Data (DA) (Cont'd)(1) Basic Channel Description (Cont'd)(b) Determination of Mileage

The interoffice mileage of channels furnished within a Digital Serving Area is based on the airline distances between the wire center serving each customer location.

The interoffice mileage for channels furnished between Digital Serving Areas is based on the airline distances between the wire centers associated with the customer's local serving wire center in each Digital Serving Area.

(c) Service Components

The components of Digital Data Service offered for transmission between and within Digital Serving Areas are set forth below.

Local Digital Channel (connecting the customer's premises to the customer's local serving wire center.)

Transmission function (one applicable per termination).

Interoffice mileage, as appropriate, of channels connecting the customer's local serving wire centers.

Multi-Station Arrangement - required when providing Digital Data Service between three or more digital stations.

Channel Service Unit type equipment is required at all times at each station on the customer's side of the Rate Demarcation Point (RDP) to perform such functions as proper termination of the service, amplification, signal shaping and remote loopback testing.

Channel Service Unit type equipment or other Network Channel Terminating Equipment associated with the Digital Data Channel on the customer's side of the Rate Demarcation Point (RDP) must be provided by the customer and must comply with the requirements of the Bell Technical Reference Publication 62310 and Section 31 of Pa. P.U.C.-No. 1.

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

(C)

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(C)

(C) Indicates change.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.5 Digital Service* (Cont'd)

(C)

(A) Digital Data (DA) (Cont'd)(2) Technical Specifications Packages

<u>Parameter</u>	<u>Package DA-</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Error-Free Seconds*	X	X	X	X
Central Office Bridging				
Capability	X	X	X	X
Transfer Arrangement	X	X	X	X

*The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (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.

(3) Channel Interfaces

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

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

Compatible channel interfaces are set forth in 4.5(E) following.

(4) Optional Featuresa) 1 x N Transfer Arrangement

This arrangement can be utilized to transfer a leg of a Digital Data Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available where facilities permit as determined by the Telephone Company. A key activated or dial up control service is required to operate the transfer arrangement. A spare line, if required, is not included as a part of the option.

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

(C)
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(C)

(C) Indicates change.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

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(C)

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

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(C)

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

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(C)

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.5 Digital Service* (Cont'd)

(C)

(A) Digital Data (DA) (Cont'd)(4) Optional Features (Cont'd)(e) Digital Data Bridging

A Digital Data Bridging arrangement is required to provide for Digital Data Service between three or more digital stations.

The wire centers listed in 3.5 (A) (4) (d) preceding are equipped to provide bridging capability for Digital Data Service.

(f) Secondary Channel

- (a) Secondary Channel is an Optional Feature associated with a primary Digital Data Service channel(s). Secondary Channel is a second, totally independent, lower speed channel operating in parallel with the primary channel of a Digital Data Service circuit. This service is not available on multipoint channels.
- (b) The types of Secondary Channels offered to provide for the simultaneous, independent two-way transmission of digital signals between two or more customer premises each having Secondary Channels are as follows:
 - Secondary Channel furnished for digital transmission at a synchronous rate of 133 bits per second (bps), operating in parallel with a primary 2.4 kbps channel (per termination).
 - Secondary Channel furnished for digital transmission at a synchronous rate of 266 bps, operating in parallel with a primary 4.8 kbps channel (per termination).
 - Secondary Channel furnished for digital transmission at a synchronous rate of 533 bps, operating in parallel with a primary 9.6 kbps channel (per termination).
 - Secondary Channel furnished for digital transmission at a synchronous rate of 2,666 bps, operating in parallel with a primary 56 kbps channel (per termination).

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

(C)
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(C)

(C) Indicates change.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

High Capacity Services 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. (C)

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

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(C)

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

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(C)

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

P

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(C)

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.6.1 High Capacity Digital Hand-Off Service*

(C)

(A) Digital Hand-Off Service Description

Digital Hand-Off Service provides a high capacity digital facility that carries voice grade services between the customer's serving central office and the customer's compatible premises equipment. The service is available as either a dedicated or multiplexed facility.

1. Dedicated Hand-Off Facility

The Dedicated Hand-Off Facility is a digital wideband channel operating at a transmission speed of 1.544 Mbps and is used only to provide DID Service from a digital switch. It is a simultaneous two-way transmission medium using serial, bipolar, return-to-zero, isochronous, alternating mark inversion format. It extends from a customer's high capacity interface to the serving central office where it is connected directly into the digital switch. A maximum of 24 local exchange Direct Inward Dialing Service lines can be provided by each Dedicated Hand-Off Facility.

* Effective November 3, 2012, High Capacity Digital Hand-Off Service is grandfathered and no longer available to new customers. Moves, additions or changes to subscribers' existing service are not permitted. High Capacity Digital Hand-Off Service is still available for resale until February 16, 2013, on which date the foregoing terms shall be effective for resale.

(C)

(C)

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.6 High Capacity (HC) Service (Cont'd)3.6.1 High Capacity Digital Hand-Off Service* (Cont'd)

(C)

(A) Digital Hand-Off Service Description (Cont'd)2. Multiplexed Hand-Off Facility

The Multiplexed Hand-Off Facility is a digital wideband channel operating at a transmission speed of 1.544 Mbps. It is a simultaneous two-way transmission medium using serial, bipolar, return-to-zero, isochronous, alternating mark inversion format. It extends from the customer's high capacity interface to the serving central office where it is multiplexed for connection to a maximum of 24 voice grade services.

(B) The customer must specify at the time of ordering which channels of the facility connect with which voice grade service requested. Any future additions and changes to channel assignments must also be coordinated with the Telephone Company.

(C) In addition to the charges for High Capacity Digital Hand-Off Service in this tariff, all nonrecurring and recurring charges for the voice grade services provided will be charged in accordance with the applicable tariffs governing those services.

(D) Customer-requested switched voice grade services must emanate from either the customer's normal serving central office or a customer-specified foreign office. Voice Grade Special Services may extend beyond the serving central office and will be provided via whatever facilities the Telephone Company chooses, subject to applicable rates and charges.

(E) Digital Data Service and Metallic Special Services may not be transported over High Capacity Digital Hand-Off Service facilities.

(F) The interface at the customer's premises must conform with Bell Atlantic Technical Publication TR000054 at the Digital Signal-1, DS-1, level.

(G) Dedicated Digital Hand-Off Service is available only in central offices equipped with a digital switch.

* Effective November 3, 2012, High Capacity Digital Hand-Off Service is grandfathered and no longer available to new customers. Moves, additions or changes to subscribers' existing service are not permitted. High Capacity Digital Hand-Off Service is still available for resale until February 16, 2013, on which date the foregoing terms shall be effective for resale.

(C)

(C)

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.6 High Capacity (HC) Service (Cont'd)3.6.1 High Capacity Digital Hand-off Service (Cont'd)

- H. PRI Alternative Digital Arrangement* - PRI Alternative Digital Arrangement is provisioned with 1.544 megabit per second (Mbps) bandwidth using "inband" signaling and provides the customer with 24 channels having the capabilities of simultaneous access, transmission and switching of voice and data services. It extends from a customer's high capacity interface to the serving central office where it is connected directly into the digital switch. This arrangement is not normally suitable for the transmission of digital data signals and the speed of transmission is not guaranteed. PRI Alternative Digital Arrangement is available where facilities permit. (C)

PRI Alternative Digital Arrangement will be converted to **IntelliLinQ**® PRI, at no additional charge, when mutually agreed to by the customer and the Telephone Company. The customer must provide compatible Customer Premises Equipment and agree to modify/change this equipment when converting to **IntelliLinQ** PRI.

The following **IntelliLinQ** PRI optional features are not available with this service arrangement; Calling Line Identification, Call-by-Call, Circuit-Switched Data and "D" channel signaling. In addition, WATS, 800 Lines, and Automatic Number Identification are not available under this service arrangement.

* Effective November 3, 2012, High Capacity Digital Hand-Off Service - PRI Alternative Digital Arrangement is grandfathered and no longer available to new customers. Moves, additions or changes to subscribers' existing service are not permitted. High Capacity Digital Hand-Off Service- PRI Alternative Digital Arrangement is still available for resale until February 16, 2013, on which date the foregoing terms shall be effective for resale. (C)

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

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(C)

SPECIAL SERVICES

(C)

3. Service Descriptions (Cont'd)

3.8 Direct Inter-Premises Channel Option

A. Basic Service Description

Direct Inter-Premises Channel service is an arrangement whereby service may be furnished by placing facilities directly between two non-adjacent premises of the same customer in lieu of routing them via a wire center, within the same or contiguous central office serving areas when in the judgment of the Telephone Company it is practical and feasible to do so. The customer may elect to pay charges based on the costs of providing direct facilities between the two locations, in lieu of the charges for Voice Grade channels with A, B or C signaling.

B. Regulations

- (1) The customer must have a minimum requirement of 25 channels between the two non-adjacent premises.
- (2) The type and route of the facilities and requirement for transmission equipment are determined by the Telephone Company.
- (3) The capacity of the facilities provided is based upon the customer's estimate of his total channel requirement for a five year period.
- (4) The customer is responsible for payment of the charges for the entire capacity provided regardless of the extent of utilization.
- (5) One of two payment plans is available during the five year contract period:
 - (a) The customer may elect to pay a nonrecurring charge which covers the charge for providing the channel facilities, with a monthly recurring charge for maintaining the facilities over the five year period.
 - or
 - (b) The customer may elect to have the applicable charges spread equally over the contract period (60 months) subject to a five year termination liability.

(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

3. Service Descriptions (Cont'd)3.8 Direct Inter-Premises Channel Option (Cont'd)B. Regulations (Cont'd)

- (6) A nonrecurring charge of \$39.00 applies for each channel activated after the initial placement of the Direct Inter-Premises Channel Option facility.
- (7) The Telephone Company retains ownership of the facilities provided.
- (8) The customer is liable for the nonrecurring costs incurred in computing the optional charges, whether or not he elects to take the option.

3.9 Multiple Channel Service Pricing OptionA. Basic Channel Description

The Multiple Channel Service Pricing Option is an arrangement that provides reduced recurring charges to customers having 24 or more interoffice channels (in groups of 24) between the same two customer switching or premises locations of the same customer. This arrangement may include Telegraph*, Voice Grade and Audio Program* channels as offered in this Tariff. (C)

Effective with the date of this Tariff, Multiple Channel Service Pricing Option is available for new arrangements as described following. Those existing arrangements with two-year, three-year or five-year contract periods may continue in force until the expiration of the contract. At that time, the customer will have the option to contract for the service as presently offered in the Tariff or revert to the effective individual channel rates.

B. Regulations

- (1) The customer must have a minimum of 24 channels between the same two customer switching or premises locations.
- (2) Channels are provided only under contract for a period of two years. The customer is responsible for payment of all charges for the entire contract period selected.

* As of October 31, 2014, Program Audio Service and Telegraph 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

3. Service Descriptions (Cont'd)3.9 Multiple Channel Service Pricing Option (Cont'd)B. Regulations (Cont'd)

- (3) Each group of 24 channels will require a separate contract and is considered independent of all other groups of 24 channels.
- (4) Each group of 24 channels may consist of either a single channel type, e.g., 24 Voice Grade channels, or any combination of channel types available under this arrangement, e.g., 8 Voice Grade, 8 Telegraph Grade* and 8 Audio Program* channels. (C)
- (5) The customer is responsible for identifying the specific channels to be included in each group of 24 channels.
- (6) The amount by which the monthly rates will be reduced is determined by applying the factor shown following to the total monthly rates in effect for the 24 selected channels at the start of the contract. Once established, the amount of the reduction will remain fixed for the entire contract period.

<u>Channel Groups</u>	<u>Contract Factor</u>	<u>Contract Period</u>
Each Group of 24:	.20	2 years

- (7) Changes, such as adding optional features to a channel, will be permitted. Any change which results in the removal of one of the 24 specified channels from the group is considered to be a termination of the contract.

If a customer chooses to terminate the contract prior to the expiration of the contract period, the company will back-bill the total amount discounted for each cancelled group. All remaining channels in a cancelled group will then be billed at the existing tariff rate at the time of cancellation.

- (8) At the end of the contract period the customer has the option to renew the contract at the then existing rates for the Multiple Channel Service Pricing Option or reverting to the individual channel Tariff rates in effect at that time.
- (9) Failure to exercise the option to renew the contract will result in all channels reverting to the individual channel Tariff rates in effect at that time.

* As of October 31, 2014, Program Audio Service and Telegraph 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

(C)

3. Service Descriptions (Cont'd)

3.10 Select A-Station Service

(A) Basic Service Description

This service is a multi-station service, designed to establish point-to-point connections rapidly between a customer-provided master station and a number of remote stations, one at a time. This service requires voice grade channel facilities as specified in the following paragraphs.

A Selector Control Unit will be provided by the customer, at the customer master station location. The Selector Control Unit is used by the customer to transmit control signals to a Data Station Selector and/or to receive supervisory signals from the Data Station Selector.

Data Station Selectors are located in Telephone Company wire centers and will be designated as either Primary or Secondary Data Station Selectors.

A Primary Data Station Selector is a Data Station Selector which is connected to a Selector Control Unit. The connection must be by means of a four-wire voice grade data transmission channel.

A Secondary Data Station Selector is any Data Station Selector connected to a Primary Data Station Selector which is arranged with the proper options.

A Primary Data Station Selector arranged for automatic step or automatic step with reset type operation may not be connected to a Secondary Data Station Selector. When arranged for this type of operation a Primary Data Station Selector may have a maximum capacity of 128 output ports. These ports may serve a maximum of 128 remote stations by means of two-wire or four-wire voice grade channels without signaling.

When arranged for controlled step type operation a Primary Data Station Selector may have a maximum capacity of 128 output ports. These ports may serve a maximum of 128 remote stations by means of two-wire or four-wire voice grade channels without signaling or the Primary Data Station Selector output ports may serve a combination of remote stations and Secondary Data Station Selectors, the combined total of which cannot exceed 128.

(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

3. Service Descriptions (Cont'd)

3.10 Select-A-Station Service (Cont'd)

(A) Basic Service Description (Cont'd)

A Secondary Data Station Selector must be connected to a Primary Data Station Selector output port by means of a four-wire voice grade data transmission channel.

A Secondary Data Station Selector may have a maximum capacity of 128 four-wire or two-wire output ports. These ports may serve a maximum of 128 Remote stations by means of four-wire or two-wire voice grade channels without signaling.

The customer must specify, prior to installation, the appropriate Data Station Selector options and the order of connections from the Data Station Selector to the remote stations when utilizing the sequential mode of operation.

Each channel between the Data Station Selector and a customer's premises or between Data Station Selectors will be treated as an independent two-point channel for determining applicable rates. Standard multipoint bridging charges as provided for voice grade service are not applicable to Select-A-Station service.

This service is not designed to provide alternate voice data transmission. Direct current continuity between the customer provided master station and remote stations is not provided. Direct transmission between remote stations is not possible, nor is simultaneous communications from the customer-provided master station to more than one remote station possible.

Not available for new installations. Additions and maintenance replacements furnished only to the extent of available stock.

(C)
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3.11 Telemetry and Alarm Bridging Service

(A) Split Band, Active Bridging Service

(1) Basic Service Description

Split Band, Active Bridging Service is a wire center telemetry alarm service designed for use with large multipoint, voice grade Special Services networks. This service is designed to provide connections between a master station and a number of remote stations simultaneously. Split Band, Active Bridging Service has applications in voice frequency, data and tone signaling arrangements with transmission rates up to 400 bauds.

(C) Indicates change.

ISSUED JANUARY 8, 1993.

EFFECTIVE (MARCH 9, 1993.)
MARCH 14, 1993.

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

SPECIAL SERVICES

(C)

3. Service Descriptions (Cont'd)

3.11 Telemetry and Alarm Bridging Service (Cont'd)

(A) Split Band, Active Bridging Service (Cont'd)

(2) Components

(a) The Split Band, Active Bridging Service consists of three components: the bridge(s), access lines and channel connections.

(a.1.) Bridge - the bridge used for the provision of this service is the Split Band, Active Bridge. This bridge includes one or more bridging shelves and is equipped with amplifiers, splitters, filters and ports. The first bridging shelf in a wire center will accommodate one four-wire master station or mid-link port and forty-eight two-wire ports. Additional bridging shelves may be added to the first, not to exceed a maximum capacity of 128 remote stations. Two-way communication (polling) between the master station and each remote station is intended; direct communication between remote stations is not permitted.

(a.2.) Access Lines and Channel Connections

Four-wire voice grade data transmission channels are required to connect the Master Station to its primary bridge and for the mid-link channel to connect primary and secondary bridges in different wire centers.

In addition, mid-link channel connections are required.

Two-wire voice grade channels without signaling are required to connect each remote station to its bridge port.

In addition, remote station channel connections are required.

(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

3. Service Descriptions (Cont'd)

3.11 Telemetry and Alarm Bridging Service (Cont'd)

(A) Split Band, Active Bridging Service (Cont'd)

(3) Regulations

The regulations contained herein are in addition to all other applicable regulations as set forth in other sections of this Tariff.

- (a) Terminal equipment, provided and maintained by the customer for use with Split Band, Active Bridging Service must meet specifications for such customer-provided equipment as set forth in Section 31 of Pa. P.U.C.-No. 1.
- (b) No more than 128 remote stations may be connected to a master station over an individual Split Band, Active Bridge.
- (c) Secondary bridges reduce the two-wire remote station capacity of the primary bridge. The initial secondary bridge reduces the primary bridge capacity by twelve additional two-wire remote station connections. Each subsequent secondary bridge reduces the primary bridge capacity by four additional two-wire remote station connections.
- (d) Standard multipoint bridging charges as provided for voice grade services are not applicable to Split Band, Active Bridging Service.
- (e) Each channel between the bridge and a customer's premises or between bridges will be treated as an independent channel for determining the application of same wire center or different wire center rates.

(C)
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(C) Indicates change.

ISSUED FEBRUARY 25, 1987.

EFFECTIVE APRIL 26, 1987.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.12 Volume Term Pricing Plans (VTPP)(A) Description

Volume Term Pricing Plans are pricing options available to DDS and DS1 customers. A customer, by Billing Account Number (BAN), meeting one or more of the requirements described in section 3.12.A1, can subscribe to specific longer term commitment periods in exchange for reduced monthly rates.

- (1) DDS customers with 1 to 24 local channels can subscribe to pricing option one, as delineated in section 6.9.A, and have the option of 2-yr, 3-yr, or 5-yr commitment periods.

DDS customers with 25 to 100 local channels can subscribe to pricing option two, as delineated in section 6.9.B, and have the option of 2-yr, 3-yr, or 5-yr commitment periods.

ICB arrangements are available for DDS customers with more than 100 local channels.

- Digital Data Service plans are applicable to local channels, transmission functions, and channel mileage rate elements.
- Multiple Digital Data Services must be of the same speed and in the same billing account in order to be in the same Volume Term Pricing plan.

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(C)

(C) Indicates change

ISSUED OCTOBER 10, 1995.

EFFECTIVE OCTOBER 11, 1995

3. Service Descriptions (Cont'd)3.12 Volume Term Pricing Plans (Cont'd)(A) Description (Cont'd)

- (2) Rates for Volume Term Pricing Plans are detailed in Section 6.9. Volume Term Pricing Plans do not include optional features and function or nonrecurring charges. Monthly rates and nonrecurring charges apply for all other rate elements.

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

(B) Terms and Conditions

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

(C) Termination Liability

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

(C) Indicates change

ISSUED OCTOBER 1, 1992.

EFFECTIVE (NOVEMBER 30, 1992.)
APRIL 1, 1993.

By Daniel J. Whelan, Vice-President, 315 N. 2nd St., Harrisburg, Pa.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

3.12 Volume Term Pricing Plans (Cont'd)

(C) Termination Liability (Cont'd)

$$(2) \quad \mathbb{P} \quad \mathbb{P} \quad \mathbb{P} \quad (C)$$

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

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

(D) Termination Without Liability

- (1) A VTPP may be canceled without liability should the applicable tariff rates increase.
- (2) A request to change to a longer commitment period will nullify the current termination liability. All terms and conditions associated with the new VTPP will apply.
- (3) Termination liability is not applicable if the customer requests to upgrade service to a higher speed (2.4 kbps to 4.8 kbps) service and meets all of the following conditions:

- The new service is provided between the same locations as the disconnected service.

3. Service Description (Cont'd)3.12 Volume Term Pricing Plans (Cont'd)(D) Termination Without Liability (Cont'd)

(3) (Cont'd)

- The new service is purchased under a long-term agreement equal to or greater than the commitment period of the service being disconnected.
- The orders for the disconnect of the existing VTPP rate elements and the new connect are received by the Telephone Company at the same time, with the same due date, and are related together by a Related Purchase Order Number (RPON).
- The total bandwidth (in kbps) of the service is greater than or equal to the bandwidth of the discontinued service(s).

(E) Additions To Plans

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

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

3.13 Voice Grade Term Pricing Plan (VGTPP)(A) Description

Voice Grade Term Pricing Plans (VGTPPs) are pricing options available to Voice Grade customers who subscribe to specific longer term commitment periods in exchange for reduced monthly rates on mileage rate elements.

- (1) A customer with one or more Voice Grade services has the option of 3-year or 5-year commitment periods.

(C) Indicates change

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APRIL 1, 1993.

By Daniel J. Whelan, Vice-President, 315 N. 2nd St., Harrisburg, Pa.

3. Service Description (Cont'd)3.13 Voice Grade Term Pricing Plan (VGTPP) (Cont'd)(A) Description (Cont'd)

- (2) VGTPPs are available subject to the following.

Voice Grade Service plans are applicable to channel mileage. The fixed and per mile rate elements must be included in the same individual Voice Grade Term Pricing Plan.

Multiple Voice Grade services must be in the same billing account in order to be in the same individual Voice Grade Term Pricing Plan.

- (3) Rates for VGTPPs are detailed in section 6.9. Voice Grade Term Pricing Plans do not include local channels, transmission functions, optional features and functions or nonrecurring charges.

VGTPP's are not applicable to services in other rate plans.

(B) Terms and Conditions

- (1) When requesting a VGTPP, the customer must specify the length of the desired commitment period and the services which are to be included in the plan.
- (2) When requesting any VGTPP activity, the customer must specify by circuit identification number which circuits are to be affected.
- (3) When ordering VGTPP services, related rate elements must be ordered under the same plan. For example, the fixed and per mile rate elements for a given circuit must be in the same plan and have the same service date.
- (4) At the end of VGTPP commitment period, the associated service(s) will revert to monthly service rates unless the customer subscribes to a new VGTPP.

(C) Termination Liability

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

(C) Indicates change

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APRIL 1, 1993.

By Daniel J. Whelan, Vice-President, 315 N. 2nd St., Harrisburg, Pa.

3. Service Description (Cont'd)3.13 Voice Grade Term Pricing Plan (VGTPP) (Cont'd)(C) Termination Liability (Cont'd)

- (2) If the customer requests a Voice Grade service to be used for Switched access, the request will be treated as a disconnect and termination liability will be assessed.
- (3) The termination liability payment applies to each individual recurring rate element associated with a VGTPP which is disconnected prior to the expiration of the commitment period of the VGTPP.
- (4) Termination liability will be computed as follows:
 - For services discontinued within the first year, the customer will be liable for 100% of the total monthly charges for the unexpired portion of the initial 12 months.
 - For services discontinued after the first 12 months of a plan, customers will be liable for 30% of the total monthly charges for the fixed and per mile rate elements for the remaining portion of their VGTPP commitment period.

(D) Termination Without Liability

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

The orders for the disconnect of the existing VGTPP rate elements and the new connect must be received by the Telephone Company at the same time, with the same due date, and must be related together by a Related Purchase Order Number (RPON).

(E) Additions to Plan

Customers with existing VGTPPs who wish to increase the number of their Voice Grade services have the following options:

- Subscribe to the additional services under the monthly payment plan.
- Subscribe to the additional services under a separate VGTPP.

(C) Indicates change

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APRIL 1, 1993.

By Daniel J. Whelan, Vice-President, 315 N. 2nd St., Harrisburg, Pa.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

3.14 Bell Atlantic® IntelliMuxSM Service

(C)

(A) General

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

(B) Service Description

IntelliMux Service allows customers management and network reconfiguration capability of their voice grade, DDS, and/or individual channels within a 1.544 Mbps High Capacity Special Service. The reconfiguration is accomplished by either Telephone Company-performed or customer-performed access. Access is gained by a customer from a dial-up line from a customer-provided terminal at their premises to access the intelligent controller - the **IntelliMux** host computer. The **IntelliMux** host computer assures that the services to be connected together for a given customer application have compatible characteristics to ensure proper operations and functions. Once the host computer validates the customer's commands, the instructions are communicated to the digital cross-connect system(s) (DCSs) associated with the customer's services to effect the reconfiguration. The DCSs interface at a DS1 signal level and switch internally at a DS0 level regardless of the type of access connection.

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

Customers can reconfigure their special services networks from their premises or they can have the Telephone Company perform the reconfiguration.

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SM Service Mark of Bell Atlantic Corporation.

(C) Indicates change.

ISSUED MAY 3, 1993.

EFFECTIVE MAY 4, 1993.

By Daniel J. Whelan, Vice-President, 315 N. 2nd St., Harrisburg, Pa.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

3.14 Bell Atlantic IntelliMux Service (Cont'd)

(C)

(C) **IntelliMux** Reconfiguration Options

Two network reconfiguration options are available to **IntelliMux** Service customers:

- Real Time
- Reservation

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

(D) Technical Specifications

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

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

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

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

Scheduled Maintenance

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

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

(C) Indicates change.

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By Daniel J. Whelan, Vice-President, 315 N. 2nd St., Harrisburg, Pa.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

3.14 Bell Atlantic IntelliMux Service (Cont'd)

(C)

(D) Technical Specifications (Cont'd)

Service Exclusions

The following types of service terminations and options are not supported with the **IntelliMux**sm offering:

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

(E) **IntelliMux** Service Options

End Link and Interoffice Facility Compatibility Verification

Each end link is verified to ensure technical compatibility for directionality, signalling type, bandwidth and service group.

DS0 Circuit Reconfiguration

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

DS1 Circuit Reconfiguration

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

Real Time Capability

The customer, using demand service requests, can reconfigure his/her network on a real-time basis.

Reservation Capability

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

(C) Indicates change.

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By Daniel J. Whelan, Vice-President, 315 N. 2nd St., Harrisburg, Pa.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.14 Bell Atlantic IntelliMux Service (Cont'd)(E) **IntelliMux** Service Options (Cont'd)

Network Model Capability

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

Basic Routing Capabilities

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

(F) **IntelliMux** Service Configuration

IntelliMux provides the customer with management capability of Special Services Networks as specified in (A) preceding. **IntelliMux** is provided from **IntelliMux** Hubs which are identified in the NECA Tariff No. 4.

Applicable rate elements are:

- **IntelliMux** VG/DDS Port*
- **IntelliMux** DS1 Port
- VG/DDS Local Channel/Transmission Function (Per Termination) (C)
- VG/DDS Channel Mileage (as applicable)
- DS1 Local Channel (Per Termination) (C)
- DS1 Channel Mileage (as applicable between the customer's serving wire center and **IntelliMux** Hub and between **IntelliMux** Hubs)

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

ISSUED JULY 26, 1993.

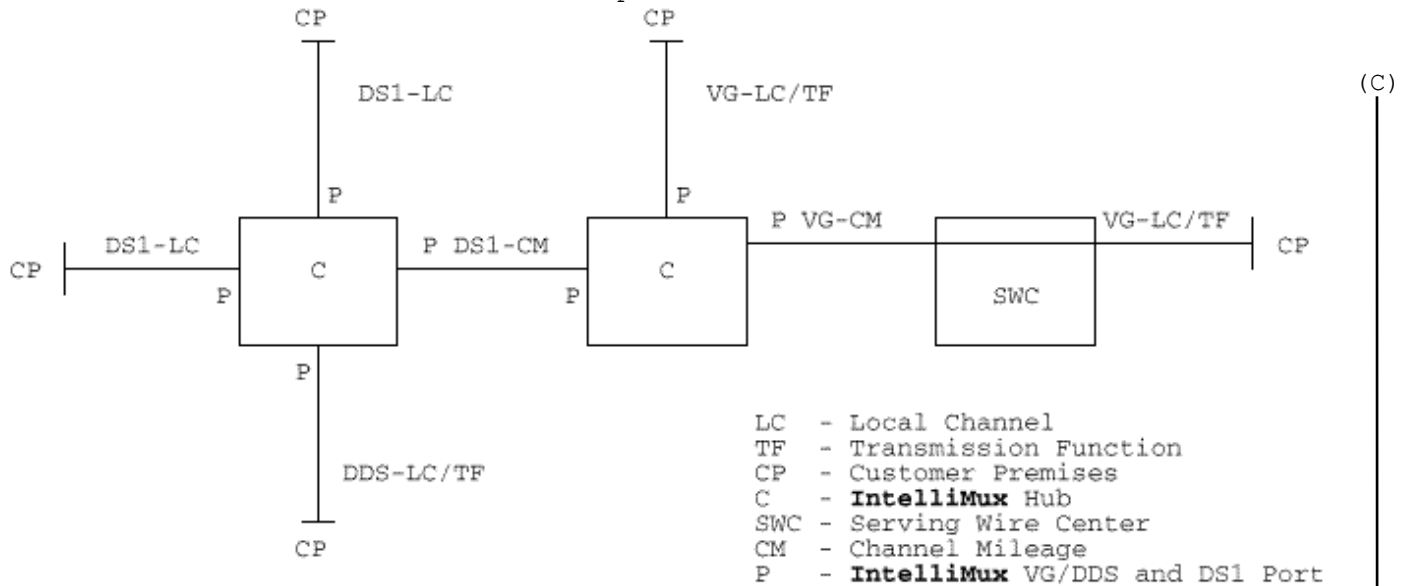
EFFECTIVE SEPTEMBER 24, 1993.

By Daniel J. Whelan, Vice-President, 315 N. 2nd St., Harrisburg, Pa.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)3.14 Bell Atlantic IntelliMux Service (Cont'd)(E) **IntelliMux** Service Options (Cont'd)

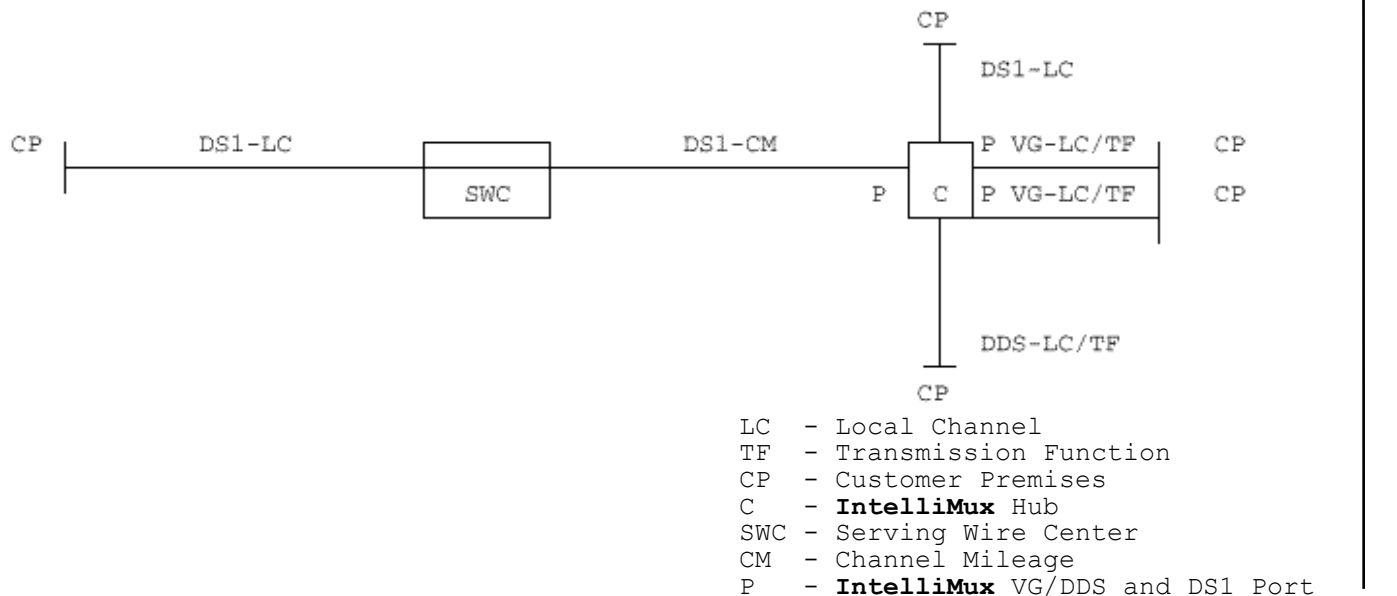
Example: **IntelliMux** configuration utilizing two **IntelliMux** Hubs and five customer premises locations:



Rate elements are:

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

Example: **IntelliMux** configuration utilizing one **IntelliMux** Hub and five customer premises locations:



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By Daniel J. Whelan, Vice-President, 315 N. 2nd St., Harrisburg, Pa.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

3.14 Bell Atlantic IntelliMux Service (Cont'd)

(C)

(G) Rate Element Description

(1) Service Establishment

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

(2) Database Modification

This nonrecurring charge applies whenever the customer requests the Telephone Company to make a subsequent modification in his/her **IntelliMux** Database. A modification can be a change in security requirements or a change in administrative information, e.g., customer contact names and numbers, addition/deletion of authorized users.

(3) Telephone Company-Performed Reconfiguration

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

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

(4) Port Charges

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

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

(C) Indicates change.

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EFFECTIVE MAY 4, 1993.

By Daniel J. Whelan, Vice-President, 315 N. 2nd St., Harrisburg, Pa.

SPECIAL SERVICES

3. Service Descriptions (Cont'd)

3.15 Statistical Multiplexer Service

(C)

- (A) Statistical Multiplexer Service provides the customer access to a more efficient form of time division multiplexers that work by a dynamic allocation of time slots. Multiple data streams can be combined into a single high speed data stream on a single channel. This service requires compatible customer-provided equipment (CPE). Such multiplexing must be transparent to the speed, code and protocol of the user's data signal; protocol conversion is not provided by such equipment.

This service is associated with the Dedicated Digital (< 64 kbps) Basic Serving Arrangement (BSA).

(C) Indicates change.

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EFFECTIVE MAY 4, 1993.

By Daniel J. Whelan, Vice-President, 315 N. 2nd St., Harrisburg, Pa.