

January 13, 2026
Via Web Filing

Matthew L. Homsher, Commission Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Bldg.
400 North Street 2nd Floor
Harrisburg, PA 17120

RE: Verizon Pennsylvania LLC
Pa. P.U.C. -No. 304

Dear Mr. Homsher:

Herewith, for filing with the Commission in accordance with Public Utility Commission procedures, is Verizon Pennsylvania LLC's ("Verizon" or "Company") proposed tariff changes.

The following tariff pages are enclosed:

Verizon Pennsylvania LLC, Pa. P.U.C. No. 304

2 nd Revised Sheets 24-29	4 th Revised Sheet 44
1 st Revised Sheets 30-38	3 rd Revised Sheet 45
3 rd Revised Sheet 39	4 th Revised Sheet 46
4 th Revised Sheet 40	4 th Revised Sheet 50
2 nd Revised Sheet 41-43	

With this filing, Verizon Pennsylvania LLC is proposing to sunset Metallic (MT) Service, Metallic/Metallic Equivalent, Metallic Data Signaling, Telegraph Grade (TG) Service, Voice Grade (VG) Service, Program Audio (AP) Service, and Digital Service, which will no longer be available to new customers effective February 13, 2026. Moves, changes, or modifications to these services will no longer be supported and service modifications for customers with existing contracts will be subject to the terms of their contracts.

Also enclosed is a copy of the customer notice.

The Company requests that the Commission allow this filing to become effective on February 13, 2026.

Any questions you may have regarding this filing should be directed to the attention of Jacqueline M. McGirr at Jacqueline.M.McGirr@verizon.com. Thank you for your assistance in this matter.

Sincerely,

/s/ Sharon Thomas

Sharon Thomas
Consultant

cc: Office of Consumer Advocate (telco@paoca.org)
Office of Small Business Advocate (ra-sba@pa.gov)
J. McGirr – Verizon

Attachments

Description of Filing

Verizon Pennsylvania LLC is proposing to sunset Metallic (MT) Service, Metallic/Metallic Equivalent, Metallic Data Signaling, Telegraph Grade (TG) Service, Voice Grade (VG) Service, Program Audio (AP) Service, and Digital Service, which will no longer be available to new customers effective February 13, 2026. Moves, changes, or modifications to these services will no longer be supported and service modifications for customers with existing contracts will be subject to the terms of their contracts.



October 14, 2025

Business Name
Billing Address 1
Billing Address 2
City, State Zip

Re: Services to be Withdrawn: Switched/Unswitched and Intra-LATA DS0 Services

Dear Valued Customer,

Account Number: <BTN-Field2>
Vision ID: <Vision_Cust_ID>
Circuit ID: <CKT_ID>

Verizon is engaged in a multi-year program to update to next generation equipment and services. As part of this initiative, Verizon will discontinue certain Intra-State switched and unswitched private line DS0 services as well as certain Intra-LATA DS0 services.

This notice applies only to services sold by Verizon Delaware LLC, Verizon Maryland LLC, Verizon New England Inc., Verizon New Jersey Inc., Verizon New York Inc., Verizon North LLC, Verizon Pennsylvania LLC, Verizon South Inc., Verizon Virginia LLC and Verizon Washington, DC Inc.

According to our records, you currently subscribe to one of these services. The state-specific names for these services are shown in the table of [Attachment 1](#).

Verizon will stop fulfilling new requests for these services effective February 13, 2026. Circuit moves or changes, including modifications to these existing DS0 services will no longer be supported as of that date. Verizon will begin a phased discontinuance of these services on or after May 13, 2026. The timeframe to discontinue (i.e. disconnect) is subject to regulatory approval where required. Verizon will provide you with subsequent notice at least 90 days in advance of the actual date that your services will be disconnected.

Modifications in service offerings for customers with existing contracts are subject to the terms of their contract, including any tariff or product-guide provisions incorporated into the contract.

At this time, please review your applications that use any of these services and determine whether you wish to migrate those applications to an alternative Verizon product or to another provider. We are happy to work with you to find alternative Verizon solutions such as Ethernet Service, Private Internet Protocol Service, Wireless or VoIP Services.

We value your business and look forward to helping you realize the benefits that our advanced offerings can unlock for you. Should you have any questions or would like to discuss alternatives to the service being discontinued, please contact your Verizon Account Manager or call Customer Service at the toll-free number shown on your invoice.

For questions regarding this service withdrawal correspondence, please contact Kevin Organ at [631.206.7106](tel:631.206.7106) or email the program office at VZProductWithdrawal@verizon.com.

Sincerely,

Verizon

Note: Massachusetts customers can also contact the MA Department of Telecommunications and Cable Hotline, 800.392.6066.

Attachment 1

PRODUCTS BY STATE TO BE RETIRED/DISCONTINUED										
PUC INTRALATA LOCAL TARIFF/PRODUCT GUIDE	CT	DC	DE	MA	MD	NJ	NY	PA	RI	VA
Channel Series 1000 (Metallic/ Telegraph)		X	X	X	X	X		X	X	X
Channel Series 2000		X	X	X	X	X		X	X	X
Channel Series 3000		X	X	X	X	X		X	X	X
Channel Series 4000		X			X					X
Channel Series 5000 (Wideband)				X	X					X
Channel Series 6000 (Program Audio/ Program Transmission)		X	X	X	X	X		X	X	X
Channel Series 7000						X				
Channel Series 9000 (Metallic Local Area Data Service)			X			X		X		
Channel Series 10000 (Voice Grade Entrance Facilities for 1000, 2000 or 3000)		X		X	X	X			X	X
Channel Series 11000 (Metallic Local Area Data)		X			X					X
High-Capacity Digital Hand-off Service (DHO)			X		X	X				X
CONTROLINK Digital Channel Service (DHO)								X		
DOVPATH® Service				X					X	
Data Phone Select-a-Station				X						
Digital Connect Service/Digital Service			X			X				
Digital Data Service (DDS)/ Digital Service		X	X		X	X		X		X
DIGIPATH® Digital Service (DDS)				X			X			
DIGIPATH® Digital Service II (DDSII)	X			X			X		X	
Flexpath Digital PBX Service				X			X		X	
Foreign Central Office		X	X		X				X	
Foreign Central Office - Residence				X	X			X	X	X
Foreign Central Office - Business				X	X			X	X	X
Foreign Central Office District Service						X				
Foreign Exchange Service	X	X								
Foreign Exchange - Business			X	X	X	X	X	X	X	X
Foreign Exchange - Residence			X	X	X	X	X	X	X	X
Foreign Zone Service	X	X								
Foreign Zone Service - Business					X				X	X
Foreign Zone Service - Residence					X				X	X
Leased Channel Services that include							X			
Facsimile, Group Channel Service	X	X					X			
Local Area Data Channels, Loudspeaker Paging, Mobile Radio Telephone							X			
Remote Metering, Indicating and Supervisory Control, Alarm or Miscellaneous Signaling	X						X			
Teletypewriter or other Printer Communication and Telewriter	X	X					X			
Access Channels for Private Line Services 64 Kbps and below							X			
Channels for Data Communication, Data Transmission, or Data 3a/ Data 4 Channels	X						X			
Loudspeaker Paging, and Code Calling Communications, Remote Operations of Mobile Radio Telephone	X						X			
Voice Channels for use with Subscriber Intercommunicating equipment	X						X			
Turret Lines	X						X			
Off Premise PBX Station Lines	X						X			
Private Line Services between 2 terminals for Voice Communications, Tie Lines	X						X			
Voice Grade Data, Wire Pair, Control, and Telegraph Grade Facilities	X									
Metallic Service and/ or Telegraph Grade			X					X		
Program Audio/ Program Transmission and/ or Channels for Program Transmission		X	X				X	X		
NYNEX Enterprise Fractional DS1 Service							X			
Secretarial Service/ Secretarial Answering Service/ Secretarial Lines and Associated Answering Equipment			X			X		X		
Secretarial Concentrator Central Office Concentrator Service				X						
Secretarial Concentrator Identifier Service or Lines/ Concentrator Identifier Equipment	X	X		X					X	X
Select-A-Service/ Select-A-Station		X	X		X	X				X
Short Period Talking Service (Superseded)				X						
Short Period Telephone Service						X				
Superpath Fractional T1 Service				X						
Telemetry Alarm Bridging Service		X			X					
Special Services - Voice Grade/Voice Grade Services (including to provide such services as Private Line, Mobile Radio, Remote Metering, Select-a-Station, Off Premise Stations, Tie Lines, Concentrator Identifier Line, Private Line Data)			X					X		
ISDN Basic Rate Interface Service/ISDN Basic Exchange Service	X	X		X			X	X	X	
Residential IntelliLinQ®BRI/ Individual Line Business IntelliLinQ®BRI Service		X	X		X	X				X
ISDN Basic with Digital Centrex Service	X	X		X			X		X	
Centrex IntelliLinQ® - Basic Rate Interface (BRI)		X	X		X	X				X
ISDN BRI/ISDN Single Line		X								X
CENTRANET® DIGITAL (ISDN) CENTRANET® SERVICE								X		
Digital Electronic Telephone Set (DETS) with Basic ISDN Service includes P-Phones	X						X			
Intellipath Digital Centrex/ Digital Centrex Plus Service Proprietary Telephone Set Programmable Features				X					X	
Digital Centrex with Business Set Programmable Features/ Enhanced Station Line		X	X		X					
CENTREX Intelliling - Basic Rate Interface (BRI) Service with Business Set		X			X					
Electronic Telephone Set with Centrex Digital Features includes P-Phones						X				
Digital (ISDN) CentraNet® Multi-Button Key Set (MBKS) Basic/ Deluxe/ 3000 Deluxe Package options								X		
CentraNet® with Business Proprietary Set; Electronic Key Telephone System (EKTS) Voice Feature of ISDN - Single Line		X								X
WATS-Inward WATS Terminations (ESS Optional Services)		X				X				
Toll Free Service access line/ Dedicated Inward WATS Toll Free Service Access Line	X	X	X		X					
Wide Area Telecommunications (WATS)/ WATS Access Lines	X	X			X		X			X
WATS Service		X						X		X

VERIZON PENNSYLVANIA LLC

SPECIAL SERVICES

ISSUED JANUARY 13, 2026

EFFECTIVE FEBRUARY 13, 2026

By Jacqueline McGirr
Associate Director, State and Local Government Affairs
One Verizon Way, Basking Ridge, NJ 07920

NOTICE

Verizon Pennsylvania LLC is proposing to sunset Metallic (MT) Service, Metallic/Metallic Equivalent, Metallic Data Signaling, Telegraph Grade (TG) Service, Voice Grade (VG) Service, Program Audio (AP) Service, and Digital Service, which will no longer be available to new customers effective February 13, 2026. Moves, changes, or modifications to these services will no longer be supported and service modifications for customers with existing contracts will be subject to the terms of their contracts.

Pa. P.U.C. No. 304

2nd Revised Sheets 24-29, Canceling 1st Revised Sheets 24-29

1st Revised Sheets 30-38, Canceling Original Sheets 30-38

3rd Revised Sheet 39, Canceling 2nd Revised Sheet 39

4th Revised Sheet 40, Canceling 3rd Revised Sheet 40

2nd Revised Sheet 41-43, Canceling 1st Revised Sheets 41-43

4th Revised Sheet 44, Canceling 3rd Revised Sheet 44

3rd Revised Sheet 45, Canceling 2nd Revised Sheet 45

4th Revised Sheet 46, Canceling 3rd Revised Sheet 46

4th Revised Sheet 50, Canceling 3rd Revised Sheet 50

SPECIAL SERVICES

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.

* 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)

(C) Indicates change.

SPECIAL SERVICES

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.

* 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)

(C) Indicates change.

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.

** 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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SPECIAL SERVICES

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:

<u>Tariff Description</u>	<u>Service</u>
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.

** 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)

3.1 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.

	Available with Technical Specifications Package MT-			
	<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

** 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)

3.2 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.

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(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)

- (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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(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)

(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	

* 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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SPECIAL SERVICES

3. Service Descriptions (Cont'd)

3.3 Voice Grade (VG) Service* (Cont'd) (C)

(B) Technical Specifications Packages

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

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.

* 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 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:

<u>Attenuation Distortion</u> (Frequency Response) Relative to 1004 Hz	
<u>Frequency</u> <u>Range (Hz)</u>	<u>Variation</u> <u>(dB)</u>
400-2800	-1.0 to +2.0
300-3000	-1.0 to +3.0
3000-3200	-2.0 to +6.0
<u>Envelope Delay</u> <u>Distortion</u>	
<u>Frequency</u> <u>Range (Hz)</u>	<u>Variation</u> (micro- <u>seconds</u>)
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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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 (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>		<u>Envelope Delay Distortion</u>	
(1004 Hz Reference)			
<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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(C) Indicates change.

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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(C) Indicates change.

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.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 microseconds between 500 and 3000 Hertz, a maximum 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.) Dl 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.

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(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.

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(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)
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 (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 ± 0.5 dB.

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

	Available with Technical Specifications Package AP-				
	<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)
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 (C)

(C) Indicates change

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.

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.

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(C)
|
|
(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 Features

a) 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.

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(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)

(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).

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(C)
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(C)

(C) Indicates change.