

ACCESS SERVICE CHECK SHEET

Title Pages 1 and 2 and Pages 1 to 25-126 inclusive of this tariff are effective as of the date shown. Original and revised pages as named below and Supplement Nos. 13, 14, 15, 16, 17, 19, 20, 28, 29, and 31 contain all changes from the original tariff that are in effect on the date hereof.

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7-19.1	5th*	7-58.1.1	1st*	7-99	3rd
7-19.1.1	1st*	7-58.2	3rd	7-99.1	Original
7-19.2	3rd	7-58.3	2nd*	7-100	5th
7-19.3	1st*	7-59	3rd*	7-101	3rd
7-20	5th*	7-60	5th*	7-101.1	1st
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7-34.1	1st	7-72	5th	7-107	9th
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7-39	3rd	7-75.1	2nd	7-107.1.4	2nd
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7-41	3rd	7-77	1st	7-107.3	2nd
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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service#

(A) Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated as analog two-wire or four-wire, or, where facilities permit, as a four-wire in a digital format when used in conjunction with another Voice Grade Channel Termination at the other end. Voice Grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

Service availability limited. Refer to # footnote on Page 14-112. (N)

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7. Special Access Service (Cont'd)

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(B) Technical Specifications Packages

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

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

Service availability limited. Refer to # footnote on Page 14-112.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(B) Technical Specifications Packages (Cont'd)

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference TR-NWT-000335, Issue 3.

(C) Channel Interfaces

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

The following channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

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

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

(a) Voice Bridging (two-wire and four-wire)

(b) Telephoto Bridging (two-wire and four-wire)

Service availability limited. Refer to # footnote on Page 14-112.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(1) Central Office Bridging Capability (Cont'd)

(e) Telemetry and Alarm Bridging

Split Band, Active Bridging

Active Bridging

(2) Reserved(3) Conditioning

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

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

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

Service availability limited. Refer to # footnote on Page 14-112.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(3) Conditioning (Cont'd)(a) C-Type Conditioning

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

Attenuation Distortion
(Frequency Response)
Relative to 1004 Hz

Frequency Variation
Range (Hz) (dB)

504-2804	-1.0 to +3.0
304-3004	-2.0 to +6.0

Envelope Delay
Distortion
Variation
Frequency (micro-
Range (Hz) seconds)

1004-2604	≤	500
604-2604	≤	1500
504-2804	≤	3000

Service availability limited. Refer to # footnote on Page 14-112.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(3) Conditioning (Cont'd)(b) Improved Attenuation Distortion

Improved attenuation distortion is provided for additional control of attenuation distortion. The improved attenuation distortion specifications are:

Attenuation Distortion
(Frequency Response)
Relative to 1004 Hz

Frequency Variation
Range (Hz) (dB)

404-2804	-1.0 to +2.0
304-3004	-1.0 to +3.0
304-3204	-2.0 to +6.0

(c) Improved Envelope Delay Distortion

Improved envelope delay distortion is provided for additional control of envelope delay distortion. The improved envelope delay distortion specifications are:

<u>Envelope Delay Distortion</u>	
<u>Frequency Range (Hz)</u>	<u>Variation (micro-seconds)</u>
1004-2604	< 100
804-2604	< 200
604-2604	< 300
504-2804	< 600
504-3004	< 3000

Service availability limited. Refer to # footnote on Page 14-112.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(3) Conditioning (Cont'd)(d) Sealing Current Conditioning

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

(4) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. The level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference TR-NWT-000335, Issue 3.

Service availability limited. Refer to # footnote on Page 14-112.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Improved Termination and Improved Return Loss

- (a) 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 Termination parameters are delineated in Technical Reference TR-NWT-000335, Issue 3.
- (b) 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 TR-NWT-000335, Issue 3.

(6) Data Capability

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

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

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

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service# (Cont'd)

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

(6) Data Capability (Cont'd)

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

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

(7) Reserved.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(8) Signaling Capability

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

(9) Reserved(10) Reserved

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

	Available with Technical Specifications Package VG-												
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
C-Type Conditioning	X					X	X	X	X	X	X		
Central Office													
Bridging													
Capability	X		X			X	X				X	X	X

Service availability limited. Refer to # footnote on Page 14-112.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)

		Available with Technical Specifications Package VG-												
		<u>C</u> <u>X</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u> <u>X</u>	<u>7</u> <u>X</u>	<u>8</u>	<u>9</u>	<u>10</u> <u>X</u>	<u>11</u>	<u>12</u>
Termination	Data Capability Improved													
	For Effective Four-Wire Transmission Improved Return	X	X	X	X	X	X	X	X	X	X	X	X	X
Loss	For Effective Two-Wire													
Transmission	X X Sealing Current Conditioning For Effective Four-Wire Transmission	X			X	X			X					
		X					X	X				X		
	Signaling Capability	X	X	X	X				X	X	X			

(11) 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 customer's premises to convert the Four-Wire channel to the Two-Wire POT. When this option is ordered, a Four-Wire channel termination charge applies. Per the voice grade technical references, certain voice grade service are always provisioned as Four-Wire services and will be billed as a Four-Wire Channel Termination.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3.1 WATS Access Line Service#(A) Basic Channel Description

A WATS Access Line Service is a channel which provides voice frequency transmission capability. The service provides customer premise to customer premise connection through the combination of a WATS Access Connection (WAC), a dedicated channel between the customer's end user's premises and a WATS Serving Office (WSO) equipped with Lineside BSA or Trunkside BSAs service as set forth in Section 6 preceding. The WAC is dedicated to one customer who has the ability to transport traffic interstate.

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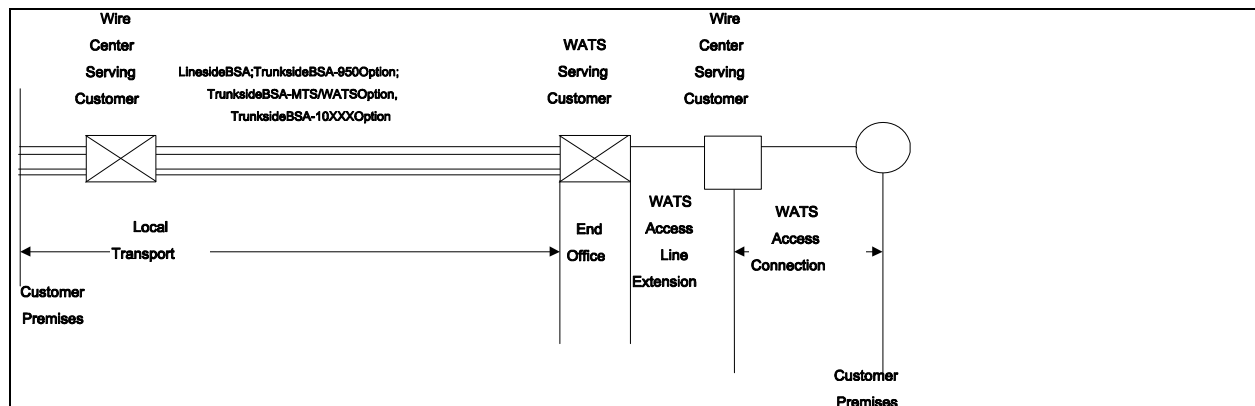
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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3.1 WATS Access Line Service# (Cont'd)(A) Basic Channel Description (Cont'd)

The WAC is comprised of a Channel Termination from the customer's end user serving wire center to the customer's end user premises.



WATS Access Line Service is service arranged for originating, terminating or two way transmission to or from an end user's premises at the option of the customer. It is provided with rotary dial or dual tone multifrequency address signaling and with either loop start or ground start signaling. Two way WATS Access Line Service is subject to recording capability and central office capacity.

Service availability limited. Refer to # footnote on Page 14-112.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3.1 WATS Access Line Service# (Cont'd)(A) Basic Channel Description (Cont'd)

Originating only and Two Way (originating only) WATS Access Line Service customers, at their option and at no charge, may be provided access to test lines in their local central office to test the WATS Access Connection. Access to two types of lines is available, balance (Type 100) and milliwatt (Type 102). Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Connections are provided.

(B) Technical Specifications Packages

<u>Parameters</u>	<u>Packages WAL -</u>		
	<u>1</u>	<u>2</u>	<u>3</u>
Attenuation Distortion	X	X	
Bit Error Rate			X
C-Message Noise	X	X	
Echo Control	X	X	
Envelop Delay Distortion	X	X	
Frequency Shift	X	X	
Impulse Noise	X	X	
Intermodulation Distortion	X	X	
Loss Deviation	X	X	
Phase Jitter	X	X	
Signal-to-C Notch Noise	X	X	

WACs are offered as either effective two-wire, effective four-wire, high capacity or improved two-wire access connections. The technical limitations are delineated in Technical Reference GR-334-CORE, Issue 1.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3.1 WATS Access Line Service# (Cont'd)

(C) Channel Interfaces

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

(D) Optional Features and Functions

(1) Central Office Bridging Capability

(a) Voice Bridging (two-wire and four-wire)

(2) Improved Two-Wire Transmission Specifications

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3.1 WATS Access Line Service# (Cont'd)(E) Service Provision Restrictions

The provision of WATS Access Line Service, as described in (A), (B), (C) and (D) preceding, is subject to individual state restrictions governing the provision of intrastate access services and intrastate competition in general. Individual state restrictions are as follows:

(1) State of New Jersey

Interexchange carriers are not authorized to offer intrastate intraLATA WATS Service in New Jersey by order of the New Jersey Board of Public Utilities. Intrastate intraLATA calling must conform to the rules and regulations of the New Jersey Board of Public Utilities. Originating intrastate intraLATA WATS calls are subject to blocking or completion by Verizon New Jersey Inc., as directed or allowed by the New Jersey Board of Public Utilities. Terminating intrastate interLATA (Toll Free*) calls should be returned by the customer to Verizon New Jersey Inc. for completion, or if this is not possible due to technical limitations and such calls are completed, billing information should be returned to Verizon New Jersey Inc. to allow Verizon New Jersey Inc. to bill such calls as its own traffic.

* "Toll Free" service includes any access service which utilizes the following NPA's: 800, 888, 877, 866, 855, 844, 833, and 822 as they become available to the industry.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3.1 WATS Access Line Service# (Cont'd)

(E) Service Provision Restrictions

(2) State of Virginia

Interexchange carriers are not authorized to offer intraLATA WATS Service in Virginia by order of the Virginia State Corporation Commission. IntraLATA WATS calls will either be blocked, or diverted to Verizon Virginia LLC for completion, at the customer's option.

(F) WATS Access Line Extensions (WALE)

When WATS Access Line Service is ordered to the end office that normally serves the customer and that office is without WATS screening capability, service is provided from the nearest end office with WATS screening capability (WSO).

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Digital Data Service#(A) Basic Channel Description

A Digital Data channel is a channel for duplex transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56 or 64 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are only available via Telephone Company designated hubs and are provided between customer designated premises between a customer designated premises and a Telephone Company Hub, or between a customer designated premises and a wire center where connection to an advanced data service## occurs. Subrating is not available at the 19.2 kbps speed and the 64 kbps speed requires B8ZS Line Code Formatted Signal.

Service availability limited. Refer to # footnote on Page 14-112.

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Advanced data services include frame relay services and ATM-cell relay services.

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7. Special Access Service (Cont'd)

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7. Special Access Service (Cont'd)

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Digital Data Service# (Cont'd)(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package DA-</u>					
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Error-Free Seconds	$\frac{1}{X}$	$\frac{2}{X}$	$\frac{3}{X}$	$\frac{4}{X}$	$\frac{5}{X}$	$\frac{6}{X}$

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

Voltages which are compatible with Digital Data Service are delineated in Technical Reference TR-NWT-000341, Issue 2.

Channel Interface requirements necessary for Secondary Channel Capability are contained in Technical Reference TR-NPL-000157, Issue 2.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Digital Data Service# (Cont'd)(C) 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-19	19.2 kbps
DU-56	56.0 kbps
DU-64	64.0 kbps

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

(D) Optional Features and Functions

- (1) Central Office Bridging Capability
- (2) Reserved

(3) Secondary Channel

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

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Digital Data Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(3) Secondary Channel (Cont'd)

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

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

The Technical specifications for this feature are as described in Technical Reference TR-NPL-000157, Issue 2. The bit rates of the SC are as shown in the following table:

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

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

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

Service availability limited. Refer to # footnote on Page 14-112.

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14. Operating Territory of the Verizon Telephone Companies (Cont'd)
 14.9 Services with Limited Availability by Wire Center (Cont'd)
 14.9.3 Voice Grade Service, WATS Access Line Service, and Digital Data Service

No customers may place orders for Voice Grade Service, WATS Access Line Service, or Digital Data Service (**DS0 Services**) as of the date specified for the locations in the following table. Subject to Section 1.1 preceding, the Telephone Company will continue to provide DS0 Services pursuant to Sections 7.2.3, 7.2.3.1, and 7.2.8, respectively, to existing customers in these wire centers with in-service DS0 Services as of the specified effective date, or orders for DS0 Services placed with the Telephone Company within the permitted time period(s) specified following:

Service Limited to Existing Customers Effective:	Moves, adds or changes are permitted:	Moves, adds or changes are no longer permitted Effective:	Service No Longer Available on or After:	Wire Center:
1/31/2018	1/31/2018 through 08/21/2018	8/22/2018	02/20/2019	East Dover, NJ (EDVRNJ01) Toms River, NJ (TMRVJTR)
1/15/2020	N/A	1/15/2020	3/26/2021	Lexington Park, MD (LXPKMDLX) Lakehurst, NJ (LKHRNJ01) Lakewood, NJ (LKWDNJLK) New Egypt, NJ (NEGPNJ01) Point Pleasant, NJ (PTPLNJPP) Seaside Park, NJ (LVLTNJSP) Van Hiseville, NJ (VNHSNJVH) West Osbornville, NJ (WOVLNJWO) Hopewell, VA (HPWLVAHW) Petersburg, VA (PTBGVAPB)

(x) Certain material on this page formerly appeared on 5th Revised Page 7-19, 4th Revised Page 7-19.1, 1st Revised Page 7-19.1.1, 5th Revised Page 7-29, 3rd Revised Page 7-29.1, Original Page 7-29.1.1, 7th Revised Page 7-58, 3rd Revised Page 7-58.1, and 1st Revised Page 7-58.1.1.

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