

ACCESS SERVICE
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Title Page 1 and Pages 1 through 19-97 inclusive of this tariff are effective as of the date shown. Original and revised pages as named below and Supplement Nos. 1 contain all changes from the original Tariff that are in effect on the date hereof.

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1	76th *	31	Original	2-36	3rd	2-67	Original
1.001	28th	1-1	3rd	2-36.1	2nd	2-68	1st
1.002	4th *	2-1	1st	2-37	2nd	2-69	Original
1.003	Original	2-2	Original	2-38	1st	2-70	Original
1.004	10th	2-3	Original	2-39	1st	2-71	Original
1.01	11th	2-4	Original	2-40	3rd	2-72	1st
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1.03	29th *	2-6	Original	2-42	Original	2-74	Original
1.04	2nd	2-7	Original	2-43	Original	2-75	Original
1.1	28th	2-8	Original	2-44	Original	2-76	2nd
1.2	48th *	2-9	1st	2-45	Original	2-77	1st
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3	1st	2-13	Original	2-49	Original	3-3	Original
4	1st	2-14	Original	2-50	Original	3-4	Original
5	1st	2-15	Original	2-51	Original	3-5	Original
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8	Original	2-18	1st	2-54	1st	3-8	Original
9	1st	2-19	1st	2-55	Original	3-9	Original
10	1st	2-20	Original	2-56	2nd	3-10	Original
11	Original	2-21	Original	2-57	3rd	3-11	Original
12	Original	2-22	Original	2-57.1	1st	3-12	1st
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14	2nd	2-24	Original	2-57.3	1st	3-14	1st
15	1st	2-25	Original	2-57.4	1st	3-15	1st
16	4th	2-26	Original	2-57.5	1st	3-16	1st
17	Original	2-26.1	Original	2-57.6	1st	3-17	Original
18	1st	2-26.2	Original	2-57.7	1st	3-18	1st
19	2nd	2-26.3	Original	2-57.8	1st	3-19	1st
20	5th	2-26.4	Original	2-57.9	1st	3-20	1st
21	5th	2-26.5	Original	2-57.10	1st	3-21	7th
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23	Original	2-28	1st	2-59	1st	4-2	2nd
24	Original	2-29	1st	2-60	1st	4-3	2nd
25	4th	2-30	1st	2-61	1st	4-4	2nd
26	Original	2-31	Original	2-62	Original	4-5	2nd
27	1st	2-32	1st	2-63	Original	4-6	2nd
28	2nd	2-33	1st	2-64	1st	4-7	3rd
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7-9	1st	7-45	1st	7-84	2nd	7-113	4th
7-10	1st	7-46	Original	7-85	2nd	7-114	1st
7-11	1st	7-47	Original	7-86	4th	7-115	1st
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7-14	1st	7-50	2nd *	7-88.1	1st	7-118	1st
7-15	1st	7-51	2nd *	7-88.2	1st	7-119	1st
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7-17	3rd	7-53	1st *	7-90	4th	7-121	1st
7-18	2nd	7-54	1st *	7-91	2nd	7-122	1st
7-19	1st	7-55	1st *	7-92	2nd	7-123	1st
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7-21	2nd	7-57	1st *	7-94	2nd	7-125	1st
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7-26	1st	7-62	2nd *	7-99	1st	7-130	1st
7-27	3rd	7-63	4th	7-100	1st	7-131	1st
7-28	1st	7-64	1st	7-100.0	1st	7-132	1st
7-29	1st	7-65	1st	7-100.1	2nd	7-133	1st
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7-35	1st *	7-71	2nd	7-102	2nd	7-139	1st
7-36	1st	7-72	2nd	7-103	2nd	7-140	1st
7-37	4th	7-72.1	1st	7-104	2nd	7-141	1st
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17-30.112	1st	17-53	1st	17-88	1st
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17-30.114	1st	17-55	1st	17-90	1st
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17-30.119	1st	17-60	1st	17-95	1st
17-30.120	1st	17-61	1st	17-96	1st
17-30.121	1st	17-62	1st		
17-30.122	1st	17-63	1st		
17-31	5th	17-64	1st		
17-32	Original	17-65	1st		
17-33	Original	17-66	1st		
17-34	Original	17-67	1st		
17-35	Original	17-68	2nd		
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17-37	1st	17-70	1st		
17-38	1st	17-71	1st		
17-39	1st	17-72	1st		
17-39.1	Original	17-73	1st		
17-40	2nd *	17-74	1st		
17-41	2nd	17-75	1st		
17-42	2nd	17-76	1st		
17-42.1	1st	17-77	1st		
17-42.2	1st	17-78	1st		
17-43	3rd	17-79	1st		
17-44	2nd	17-80	1st		
17-45	3rd	17-81	1st		
17-46	2nd	17-82	1st		
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18-1.1	14th	18-33.9.1	1st	18-33.34.0.2	1st
18-1.2	17th	18-33.10	3rd	18-33.34.1	1st
18-1.3	6th	18-33.11	3rd	18-33.34.2	1st
18-2	Original	18-33.12	3rd	18-33.34.3	1st
18-3	1st	18-33.12.0	1st	18-33.34.4	1st
18-4	1st	18-33.12.1	1st	18-33.34.5	1st
18-5	3rd	18-33.12.2	1st	18-33.34.6	1st
18-6	4th	18-33.12.3	3rd	18-33.34.7	1st
18-7	Original	18-33.12.3.1	1st	18-33.34.8	1st
18-8	6th	18-33.12.4	1st	18-33.34.9	1st
18-9	Original	18-33.12.5	1st	18-33.34.10	1st
18-10	Original	18-33.12.6	2nd	18-33.34.11	1st
18-11	1st	18-33.12.7	1st	18-33.34.11.1	1st
18-12	3rd *	18-33.13	4th	18-33.34.12	1st
18-13	2nd *	18-33.14	3rd	18-33.34.12.1	1st
18-14	2nd *	18-33.15	4th	18-33.34.12.2	1st
18-15	3rd *	18-33.15.1	1st	18-33.34.13	1st
18-16	3rd *	18-33.16	4th	18-33.34.13.1	1st
18-17	2nd *	18-33.17	3rd	18-33.34.13.2	1st
18-18	1st	18-33.18	4th	18-33.34.13.3	1st
18-19	3rd *	18-33.18.1	1st	18-33.34.14	1st
18-20	3rd *	18-33.19	4th	18-33.34.15	1st
18-21	6th	18-33.20	3rd	18-33.34.16	1st
18-22	2nd	18-33.21	4th	18-33.34.17	1st
18-23	1st	18-33.21.1	1st	18-33.34.18	1st
18-24	2nd	18-33.21.2	1st	18-33.34.19	1st
18-25	1st	18-33.21.3	1st	18-33.34.20	1st
18-26	2nd	18-33.22	4th	18-33.34.21	1st
18-27	2nd	18-33.23	4th	18-33.34.22	1st
18-28	3rd	18-33.24	4th	18-33.34.23	1st
18-29	3rd	18-33.25	4th	18-33.34-24	1st
18-30	2nd	18-33.26	4th	18-33.34-24.1	1st
18-31	2nd	18-33.27	4th	18-33.34-25	1st
18-32	3rd	18-33.28	4th	18-33.34.25.1	1st
18-33	3rd	18-33.29	4th	18-33.34.25.2	1st
18-33.1	4th	18-33.30	4th	18-33.34-26	1st
18-33.2	4th	18-33.31	4th	18-33.34.27	1st
18-33.3	3rd	18-33.32	4th	18-33.34.28	1st
18-33.4	3rd	18-33.32.1	1st	18-33.34.29	1st
18-33.5	4th	18-33.33	4th	18-33.35	5th
18-33.6	4th	18-33.33.1	1st	18-33.36	5th
18-33.7	3rd	18-33.33.2	1st	18-33.37	5th
18-33.8	3rd	18-33.34	4th	18-33.38	5th
18-33.8.1	1st	18-33.34.0	1st	18-33.39	5th
18-33.8.2	1st				

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19-1.1	29th	19-33.8	2nd	19-33.28	2nd
19-3	1st	19-33.8.1	1st	19-33.29	2nd
19-4	1st	19-33.8.2	1st	19-33.30	2nd
19-5	4th	19-33.9	5th	19-33.31	2nd
19-7	3rd	19-33.9.1	1st	19-33.32	2nd
19-8	6th	19-33.10	1st	19-33.32.1	1st
19-9	1st	19-33.11	1st	19-33.33	2nd
19-11	1st	19-33.12	2nd	19-33.33.1	1st
19-12	3rd *	19-33.12.0	1st	19-33.33.2	1st
19-13	2nd *	19-33.12.1	1st	19-33.34	2nd
19-14	2nd *	19-33.12.2	1st	19-33.34.0	1st
19-15	3rd *	19-33.12.3	2nd	19-33.34.0.1	1st
19-16	3rd *	19-33.12.3.1	1st	19-33.34.0.2	1st
19-17	2nd *	19-33.12.4	1st	19-33.34.1	1st
19-18	1st	19-33.12.5	1st	19-33.34.2	1st
19-19	3rd *	19-33.12.6	2nd	19-33.34.3	1st
19-20	3rd *	19-33.12.6.1	1st	19-33.34.4	1st
19-21	5th	19-33.13	2nd	19-33.34.5	1st
19-22	2nd	19-33.14	2nd	19-33.34.6	1st
19-23	1st	19-33.15	3rd	19-33.34.7	1st
19-24	2nd	19-33.15.1	1st	19-33.34.8	1st
19-25	1st	19-33.16	2nd	19-33.34.9	1st
19-26	2nd	19-33.17	2nd	19-33.34.10	1st
19-27	2nd	19-33.18	3rd	19-33.34.11	1st
19-28	3rd	19-33.18.1	1st	19-33.34.11.1	1st
19-29	3rd	19-33.19	2nd	19-33.34.12	1st
19-30	2nd	19-33.20	2nd	19-33.34.12.1	1st
19-31	2nd	19-33.21	3rd	19-33.34.12.2	1st
19-32	3rd	19-33.21.1	1st	19-33.34.13	1st
19-33	3rd	19-33.21.2	1st	19-33.34.13.1	1st
19-33.1	2nd	19-33.21.3	1st	19-33.34.13.2	1st
19-33.2	2nd	19-33.22	2nd	19-33.34.13.3	1st
19-33.3	2nd	19-33.23	2nd	19-33.34.14	1st
19-33.4	2nd	19-33.24	2nd	19-33.34.15	1st
19-33.5	2nd	19-33.25	2nd	19-33.34.16	1st
19-33.6	2nd	19-33.26	2nd		

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7. Special Access Service (Cont'd)

7.1 General (Cont'd)

Following is a brief description of each type of Non-Competitive End User Channel Termination (EUCT):

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

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

[1] Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6, 19.2, 56 or 64 kbps.

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312 or 44.736 Mbps.

(D)

(C)

(C)

(D)

(C)

(D)

(D)

[1] Effective February 1, 2020 Voice Grade, Program Audio and Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)

(N)

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7. Special Access Service (Cont'd)7.5 Voice Grade Service ^[1]

(C)

7.5.1 Basic Channel Description

A Voice Grade Non-Competitive End User Channel Termination (EUCT) is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Company hub, or between a customer designated premises and a WATS Serving Office (WSO).

Voice Grade Special Access Non-Competitive EUCTs are typically used for voice and voiceband data applications. Typical examples of voice grade circuits are Foreign Exchange lines (station end only), multipoint private line, voice trunk type, two-point voice grade data (one-way or simultaneous two-way), multipoint voice grade data, and voice grade telephoto or facsimile. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Voice Grade Non-Competitive EUCTs are as set forth in rate sections following.

7.5.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(C) following. Compatible network channel interfaces are set forth in 15.2.2(C)(3) following.

7.5.3 Optional Features and Functions(A) Central Office Bridging Capability

- (1) Voice Bridging (two-wire and four-wire)
- (2) Data Bridging (two-wire and four-wire)
- (3) Telephoto Bridging (two-wire and four-wire)
- (4) DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)
(N)

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7. Special Access Service (Cont'd)

7.5 Voice Grade Service ^[1] (Cont'd)

(C)

7.5.3 Optional Features and Functions (Cont'd)

(A) Central Office Bridging Capability (Cont'd)

(5) Telemetry and Alarm Bridging

Split Band, Active Bridging
Passive Bridging
Summation, Active Bridging

The rates for these options are set forth in rate sections following.

(B) Reserved For Future Use

(C) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. The rates for these options are set forth in rate sections following.

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

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)
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7. Special Access Service (Cont'd)7.5 Voice Grade Service ^[1] (Cont'd) (C)7.5.3 Optional Features and Functions (Cont'd)(C) Conditioning (Cont'd)(1) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are delineated in Technical Reference TR-NWT-000335.

(2) Improved Attenuation Distortion**

Improved Attenuation Distortion upgrades the frequency versus loss limits of the channel. The technical specifications for Improved Attenuation Distortion are delineated in Technical Reference TR-NWT-000335. This option is available only when ordered in combination with C-Type Conditioning.

(3) Improved Envelope Delay Distortion**

Improved Envelope Delay Distortion upgrades the frequency versus delay response limits of the channel. The technical specifications for Improved Envelope Delay Distortion are delineated in Technical Reference TR-NWT-000335. This option is available only when ordered in combination with C-Type Conditioning.

** Improved Attenuation Distortion and Improved Envelope Delay Distortion will continue to be provided to all customers who were provided with either or both of these optional features in conjunction with C-Type Conditioning prior to May 4, 1988.

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations. (N)
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7. Special Access Service (Cont'd)7.5 Voice Grade Service ^[1] (Cont'd)

(C)

7.5.3 Optional Features and Functions (Cont'd)(C) Conditioning (Cont'd)(4) Data Capability (D Conditioning)

Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or three-point multipoint services. The Signal to C-Notched Noise Ratio and intermodulation distortion parameter for Data Capability are delineated in Technical Reference TR-NWT-000335. The rate for this option is set forth in rate sections following. When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

(5) Telephoto Capability

Telephoto Capability provides transmission characteristics suitable for telephotographic communications. Specifically, Telephoto Capability is provided for the control of attenuation distortion and envelope delay distortion on telephotographic services. The attenuation distortion and envelope delay distortion parameters for Telephoto Capability are delineated in Technical Reference TR-NWT-000335. The rate for this option is set forth in rate sections following.

(6) 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 network channel interfaces.

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7. Special Access Service (Cont'd)7.5 Voice Grade Service ^[1] (Cont'd)

(C)

7.5.3 Optional Features and Functions (Cont'd)(D) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. The level must be within a specific range on effective four- wire transmission. The ranges are delineated in Technical Reference TR-NWT-000335. The rate for this option is set forth in rate sections following.

(E) Improved Return Loss

(1) On Effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each two- wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. 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 TR-NWT-000335. The rate for this option is set forth in rate sections following.

(2) On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of 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. The rate for this option is set forth in rate sections following.

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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7. Special Access Service (Cont'd)7.5 Voice Grade Service ^[1] (Cont'd)

(C)

7.5.3 Optional Features and Functions (Cont'd)(F) Signaling Capability

Signaling Capability provides for the ability to transmit signals from one customer premises to another customer premises on the same service. The rate for this option is set forth in rate sections following.

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

The following network 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. The signalling capability charge will not apply when used in the provision of WATS access service.

(G) Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service. The rate for this option is set forth in rate sections following.

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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7. Special Access Service (Cont'd)7.5 Voice Grade Service ^[1] (Cont'd)

(C)

7.5.3 Optional Features and Functions (Cont'd)(H) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of an access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to another channel that terminates in either the same or a different customer premises. A dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option. The rate for this option is set forth in rate sections following.

(I) Public Packet Switching Network (PPSN) Interface Arrangement

An arrangement that provides the interface requirements that permit a Voice Grade service to interface with a Public Packet Switching Network packet switch located in a Company premises. The interface is compatible with X.25 and X.75 packet switching protocols as defined by the CCITT. This option is provided on an Individual Case Basis as set forth in rate sections following.

(J) Four-Wire/Two-Wire Conversions

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The customer will be charged the four-wire Non-Competitive End User Channel Termination (EUCT) rate as set forth in 18.3.3(A) and 19.3.3(A) following when an effective four-wire is specified in the order for service. The rate for the conversion is included as part of the basic four-wire Non-Competitive EUCT rate.

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)

(N)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service ^[1] (Cont'd)

(C)

7.5.3 Optional Features and Functions (Cont'd)(K) Improved Two-Wire Voice Transmission(1) Loss Deviation

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

(2) Attenuation Distortion

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

(3) C-Message Noise

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

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	35 dBrnc0
51 to 100	37 dBrnc0
101 to 200	40 dBrnc0
201 to 400	43 dBrnc0
401 to 1000	45 dBrnc0

(4) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	13.0 dB
SRL	6.0 dB

The rate for the provision of Improved Two-Wire Voice Transmission is included as part of the basic Channel Termination rate.

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7. Special Access Service (Cont'd)7.6 Program Audio Service ^[1]

(C)

7.6.1 Basic Channel Description

A Program Audio Non-Competitive End User Channel Termination (EUCT) is a channel with bandwidth 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. Only one-way transmission is provided. Program Audio Non-Competitive EUCT channels are provided between customer designated premises or between a customer designated premises and a Company hub.

Program Audio Special Access Non-Competitive EUCTs are typically used in full-time and part-time applications for radio broadcasting, noncommercial educational audio, and wired music. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Program Audio Non-Competitive EUCT are as set forth in rate sections following.

7.6.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(D) following. Compatible network channel interfaces are set forth in 15.2.2(C)(4) following.

7.6.3 Optional Features and Functions(A) Central Office Bridging Capability

Distribution Amplifier

(B) Gain Conditioning

Control of 1004 Hz AML at initiation of service to 0 dB ± 0.5 dB.

^[1] Effective February 1, 2020 Program Audio Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)

(N)

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7. Special Access Service (Cont'd)

7.6 Program Audio Service ^[1] (Cont'd)

(C)

7.6.3 Optional Features and Functions (Cont'd)

(C) Stereo

Provision of a pair of gain/phase equalized channels for stereo applications. (An additional Program Audio channel must be ordered separately.)

The table set forth in 15.2.1(D) following shows the technical specifications packages with which the optional features and functions are available.

^[1] Effective February 1, 2020 Program Audio Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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7. Special Access Service (Cont'd)7.8 Digital Data Service ^[1]

(C)

7.8.1 Basic Channel Description

A Digital Data Non-Competitive End User Channel Termination (EUCT) is a channel for duplex four-wire 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 Company through the Company's facilities to the customer in the received bit stream. Digital Data Non-Competitive EUCTs are provided as either hubbed or non-hubbed services between customer designated premises or between a customer designated premises and a Company hub. The hubs providing hubbed digital service and the wire centers providing non-hubbed digital service are identified in National Exchange Carrier Association, Inc., Wire Center Information, Tariff F.C.C. No. 4.

The customer may provide the Channel Service Unit-type equipment associated with the Digital Data Non-Competitive EUCT at the customer premises.

The 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 MDP-326-726.

Rates and charges for Special Access Digital Data Non-Competitive EUCTs are as set forth in rate sections following.

7.8.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(F) following. Compatible channel interfaces are set forth in 15.2.2(C)(6) following.

^[1] Effective February 1, 2020 Digital Data Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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7. Special Access Service (Cont'd)7.8 Digital Data Service ^[1] (Cont'd)

(C)

7.8.2 Technical Specifications Packages and Network Channel Interfaces (Cont'd)

The following network channel interfaces (NCIs) define the bit rates that are available for a Digital Data Non-Competitive End User Channel Termination (EUCT):

<u>NCI</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

7.8.3 Optional Features and Functions

The Optional Features and Functions described in (A), (B), and (C) following are only available where Digital Data Service is provided via a hub.

(A) Central Office Bridging Capability

Bridging is not available on 64.0 Kbps channel.

(B) Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer designated premises. This arrangement is only available at a Company designated hub. A dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

(C) Public Package Switching Network (PPSN) Interface Arrangement

An arrangement that provides the interface requirements that permit a Digital Data Non-Competitive EUCT to interface with a Public Packet Switching Network packet switch located in a Company premises. The interface is compatible with X.25 and X.75 packet switching protocols as defined by the CCITT.

The table set forth in 15.2.1(F) following shows the technical specifications packages with which the optional features and functions are available.

^[1] Effective February 1, 2020 Digital Data Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)
(N)

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17. Rates and Charges - CenturyTel of Ohio, Inc. (Cont'd)

17.4 Other Services (Cont'd)

17.4.5 Special Federal Government Access Services ^[1]

(C)

(A)	<u>Voice Grade Secure Communications</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	<u>Termination Charges</u>
	Type I, each T-3 Conditioning,		ICB rates and charges apply	
	Additional Conditioning, per service termination		ICB rates and charges apply	
	Type II, each G-1 Conditioning,		ICB rates and charges apply	
	Type III, each G-2 Conditioning,		ICB rates and charges apply	
	Additional Conditioning, per service termination		ICB rates and charges apply	
	Type IV, each G-3 Conditioning,		ICB rates and charges apply	
	Additional Conditioning, per service termination		ICB rates and charges apply	
(B)	Reserved For Future Use			(C)

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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18. Rates and Charges – CenturyTel of Wisconsin, LLC; CenturyTel of Central Wisconsin, LLC; Telephone USA of Wisconsin, LLC; Spectra Communications Group, LLC (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.3 Voice Grade Service ^[1]

(C)

Regulations concerning Voice Grade Service are set forth in Section 7.5 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Non-Competitive End User Channel Termination (EUCT) Per Termination		
- Two-Wire	\$ 6.30 (R)	\$166.66 (R)
- Four-Wire	\$26.42 (R)	\$166.66 (R)
(B) Reserved For Future Use		
(C) Optional Features and Functions		
(1) Bridging		
(a) <u>Voice Bridging Per Port</u>		
- Two-Wire	\$ 2.55	
- Four-Wire	\$ 2.55	

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)
(N)

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18. Rates and Charges – CenturyTel of Wisconsin, LLC; CenturyTel of Central Wisconsin, LLC; Telephone USA of Wisconsin, LLC; Spectra Communications Group, LLC (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.3 Voice Grade Service ^[1] (Cont'd) Monthly Rate (C)

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

(1) Bridging (Cont'd)

- (b) Data Bridging per port
 - Two-Wire \$4.31 (I)
 - Four-Wire \$4.31 (I)

- (c) Telephoto Bridging per port
 - Two-Wire ICB
 - Four-Wire ICB

- (d) DATAPHONE Select A-Station Bridging
 Sequential Arrangement, Ports
 Per channel connected
 - Two-wire ICB
 - Four-wire ICB

- Addressable Arrangement, Ports
 Per channel connected
 - Two-wire ICB
 - Four-wire ICB

- (e) Telemetry and Alarm Bridging
 Active Bridging Channel Connections
 Per channel connected
 - Split Band ICB
 - Summation ICB

- Passive Bridging Channel Connections
 Per Channel Connected ICB

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations. (N)
(N)

ACCESS SERVICE

18. Rates and Charges – CenturyTel of Wisconsin, LLC; CenturyTel of Central Wisconsin, LLC; Telephone USA of Wisconsin, LLC; Spectra Communications Group, LLC (Cont'd)18.3 Special Access Service (Cont'd)18.3.3 Voice Grade Service ^[1] (Cont'd)Monthly
Rate (C)(C) Optional Features and Functions (Cont'd)

(2) Conditioning Per Termination	
- C Type	\$2.92 (R)
- Improved Attenuation Distortion	ICB
- Improved Envelope Delay Distortion	ICB
- Data Capability	\$1.94 (R)
- Telephoto Capability	ICB
- Sealing Current	ICB
(3) Improved Return Loss for Effective Two-Wire or Four-Wire Transmission Per Termination	
- Two-Wire	\$4.90 (R)
- Four-Wire	\$5.22 (R)
(4) Customer Specified Receive Level per two-wire termination	ICB

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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18. Rates and Charges – CenturyTel of Wisconsin, LLC; CenturyTel of Central Wisconsin, LLC; Telephone USA of Wisconsin, LLC; Spectra Communications Group, LLC (Cont'd)18.3 Special Access Service (Cont'd)

18.3.3 <u>Voice Grade Service</u> ^[1] (Cont'd)	Monthly <u>Rate</u>	(C)
(C) Optional Features and Functions (Cont'd)		
(5) Reserved For Future Use		
(6) Signaling Capability Per termination	\$4.74 (R)	
(7) Selective Signaling Arrangement Per arrangement	ICB	
(8) Transfer Arrangement		
- Per four port arrangement including control channel termination ^[2]	ICB	(T)
- Per five port arrangement including control channel termination ^[2]	ICB	(T)
(9) Public Packet Switching Network (PPSN) Interface Arrangement Per arrangement	ICB	

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations. (N)
(N)

^[2] An additional Non-Competitive End User Channel Termination (EUCT) charge will apply whenever a spare channel is configured as a leg to the customer designated premises. (T)

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18. Rates and Charges – CenturyTel of Wisconsin, LLC; CenturyTel of Central Wisconsin, LLC; Telephone USA of Wisconsin, LLC; Spectra Communications Group, LLC (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.4 Program Audio Service ^[1]

(C)

Regulations concerning Program Audio Service are set forth in Section 7.6 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Non-Competitive End User Channel Termination (EUCT) Per Termination		
- 200 to 3500 Hz	\$16.90	\$158.19
- 100 to 5000 Hz	\$17.80	\$158.19
- 50 to 8000 Hz	\$17.80	\$158.19
- 50 to 15000 Hz	\$17.80	\$158.19

(B) Reserved For Future Use

^[1] Effective February 1, 2020 Program Audio Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)
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18. Rates and Charges – CenturyTel of Wisconsin, LLC; CenturyTel of Central Wisconsin, LLC; Telephone USA of Wisconsin, LLC; Spectra Communications Group, LLC (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.4 Program Audio Service ^[1] (Cont'd)

(C) Optional Features and Functions	Monthly <u>Rate</u>	(C)
(1) Bridging, Distribution Amplifier Per Port	\$15.67 (I)	
(2) Gain Conditioning per service	\$10.12 (I)	
(3) Stereo per service	\$17.38 (I)	

^[1] Effective February 1, 2020 Program Audio Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations. (N)
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18. Rates and Charges – CenturyTel of Wisconsin, LLC; CenturyTel of Central Wisconsin, LLC; Telephone USA of Wisconsin, LLC; Spectra Communications Group, LLC (Cont'd)

18.3 Special Access Service (Cont'd)

18.3.6 Digital Data Service ^[1]

(C)

Regulations concerning Digital Data Service are set forth in Section 7.8 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Non-Competitive End User Channel Termination (EUCT) per termination		
- 2.4 kbps	\$20.40	\$200.09
- 4.8 kbps	\$20.40	\$200.09
- 9.6 kbps	\$20.40	\$200.09
- 19.2 kbps	\$20.40	\$200.09
- 56.0 kbps	\$27.61	\$225.91
- 64.0 kbps	\$31.65	\$225.91

(B) Reserved For Future Use

^[1] Effective February 1, 2020 Digital Data Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)
(N)

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18. Rates and Charges – CenturyTel of Wisconsin, LLC; CenturyTel of Central Wisconsin, LLC; Telephone USA of Wisconsin, LLC; Spectra Communications Group, LLC (Cont'd)18.3 Special Access Service (Cont'd)

(C)

18.3.6 Digital Data Service^[1] (Cont'd)

(C) Optional Features and Functions

Monthly Rate

(1)	Bridging Per port	\$3.33	
(2)	Loop Transfer Arrangement Per four port arrangement ^[2]	ICB	(T)
(3)	Public Packet Switching Network Interface Arrangement		
	- Per 9.6 kbps arrangement	ICB	
	- Per 56.0 kbps arrangement	ICB	

^[1] Effective February 1, 2020 Digital Data Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations. (N)
(N)

^[2] An additional Non-Competitive End User Channel Termination (EUCT) charge will apply whenever a spare channel is configured as a leg to the customer designated premises. (T)

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19. Rates and Charges – CenturyTel Midwest-Michigan, Inc./CenturyTel of Michigan, Inc. (Cont'd)

19.3 Special Access Service (Cont'd)

19.3.3 Voice Grade Service ^[1]

(C)

Regulations concerning Voice Grade Service are set forth in Section 7.5 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Non-Competitive End User Channel Termination (EUCT) Per Termination		
- Two-Wire	\$6.30	\$166.66
- Four-Wire	\$26.42	\$166.66
(B) Reserved For Future Use		
(C) Optional Features and Functions		
(1) Bridging		
(a) Voice Bridging Per Port		
- Two-Wire	\$2.55	
- Four-Wire	\$2.55	

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)
(N)

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19. Rates and Charges – CenturyTel Midwest-Michigan, Inc./CenturyTel of Michigan, Inc. (Cont'd)19.3 Special Access Service (Cont'd)19.3.3 Voice Grade Service ^[1] (Cont'd)Monthly
Rate

(C)

(C) Optional Features and Functions (Cont'd)(1) Bridging (Cont'd)(b) Data Bridging per port

- Two-Wire	\$4.31
- Four-Wire	\$4.31

(c) Telephoto Bridging per port

- Two-Wire	ICB
- Four-Wire	ICB

(d) DATAPHONE Select A-Station Bridging
Sequential Arrangement, Ports

Per channel connected

- Two-wire	ICB
- Four-wire	ICB

Addressable Arrangement, Ports

Per channel connected

- Two-wire	ICB
- Four-wire	ICB

(e) Telemetry and Alarm Bridging

Active Bridging Channel Connections

Per channel connected

- Split Band	ICB
- Summation	ICB

Passive Bridging Channel Connections

Per Channel Connected

ICB

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19. Rates and Charges – CenturyTel Midwest-Michigan, Inc./CenturyTel of Michigan, Inc. (Cont'd)19.3 Special Access Service (Cont'd)19.3.3 Voice Grade Service ^[1] (Cont'd)Monthly
Rate

(C)

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

(2) Conditioning Per Termination

- C Type	\$2.92
- Improved Attenuation Distortion	ICB
- Improved Envelope Delay Distortion	ICB
- Data Capability	\$1.94
- Telephoto Capability	ICB
- Sealing Current	ICB

(3) Improved Return Loss for Effective Two-Wire or Four-Wire Transmission Per Termination

- Two-Wire	\$4.90
- Four-Wire	\$5.22

(4) Customer Specified Receive Level per two-wire termination

ICB

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19. Rates and Charges – CenturyTel Midwest-Michigan, Inc./CenturyTel of Michigan, Inc. (Cont'd)19.3 Special Access Service (Cont'd)19.3.3 Voice Grade Service ^[1] (Cont'd)

	<u>Monthly Rate</u>	(C)
(C) Optional Features and Functions (Cont'd)		
(5) Reserved For Future Use		
(6) Signaling Capability Per termination	\$4.74	
(7) Selective Signaling Arrangement Per arrangement	ICB	
(8) Transfer Arrangement		
- Per four port arrangement including control channel termination***	ICB	
- Per five port arrangement including control channel termination***	ICB	
(9) Public Packet Switching Network (PPSN) Interface Arrangement Per arrangement	ICB	

*** An additional Non-Competitive End User Channel Termination (EUCT) charge will apply whenever a spare channel is configured as a leg to the customer designated premises.

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations. (N)
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19. Rates and Charges – CenturyTel Midwest-Michigan, Inc./CenturyTel of Michigan, Inc. (Cont'd)19.3 Special Access Service (Cont'd)19.3.4 Program Audio Service ^[1]

(C)

Regulations concerning Program Audio Service are set forth in Section 7.6 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Non-Competitive End User Channel Termination (EUCT)		
Per Termination		
- 200 to 3500 Hz	\$16.90	\$158.19
- 100 to 5000 Hz	\$17.80	\$158.19
- 50 to 8000 Hz	\$17.80	\$158.19
- 50 to 15000 Hz	\$17.80	\$158.19
(B) Reserved For Future Use		

^[1] Effective February 1, 2020 Program Audio Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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19. Rates and Charges – CenturyTel Midwest-Michigan, Inc./CenturyTel of Michigan, Inc. (Cont'd)19.3 Special Access Service (Cont'd)19.3.4 Program Audio Service ^[1] (Cont'd)

	<u>Monthly Rate</u>	(C)
(C) Optional Features and Functions		
(1) Bridging, Distribution Amplifier Per Port	\$15.67	
(2) Gain Conditioning per service	\$10.12	
(3) Stereo per service	\$17.38	

^[1] Effective February 1, 2020 Program Audio Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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19. Rates and Charges – CenturyTel Midwest-Michigan, Inc./CenturyTel of Michigan, Inc. (Cont'd)19.3 Special Access Service (Cont'd)19.3.6 Digital Data Service ^[1]

(C)

Regulations concerning Digital Data Service are set forth in Section 7.8 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Non-Competitive End User Channel Termination (EUCT), per termination		
- 2.4 kbps	\$20.40	\$200.09
- 4.8 kbps	\$20.40	\$200.09
- 9.6 kbps	\$20.40	\$200.09
- 19.2 kbps	\$20.40	\$200.09
- 56.0 kbps	\$27.61	\$225.91
- 64.0 kbps	\$31.65	\$225.91

(B) Reserved For Future Use

^[1] Effective February 1, 2020 Digital Data Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)
(N)ISSUE DATE:
January 17, 2020

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Vice President-Public Policy & Compliance
100 CenturyLink Drive
Monroe, Louisiana 71203

EFFECTIVE DATE:
February 1, 2020

ACCESS SERVICE

19. Rates and Charges – CenturyTel Midwest-Michigan, Inc./CenturyTel of Michigan, Inc. (Cont'd)19.3 Special Access Service (Cont'd)19.3.6 Digital Data Service ^[1] (Cont'd)

	<u>Monthly Rate</u>	
(C) Optional Features and Functions		(C)
(1) Bridging Per port	\$3.33	
(2) Loop Transfer Arrangement Per four port arrangement ^[2]	ICB	(T)
(3) Public Packet Switching Network Interface Arrangement		
- Per 9.6 kbps arrangement	ICB	
- Per 56.0 kbps arrangement	ICB	

^[1] Effective February 1, 2020 Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations. (N)
(N)

^[2] An additional Non-Competitive End User Channel Termination (EUCT) charge will apply whenever a spare channel is configured as a leg to the customer designated premises. (T)

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