

ACCESS SERVICE
CHECK SHEET

Title Pages 1 and 2 and Pages 1 to 17-100, 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.

<u>Page</u>	Number of Revision Except as Indicated	<u>Page</u>	Number of Revision Except as Indicated	<u>Page</u>	Number of Revision Except as Indicated	<u>Page</u>	Number of Revision Except as Indicated
Title 1	Original	2-2	Original	2-39.2	Original	3-1	1st
Title 2	1st	2-3	Original	2-39.3	Original	3-2	Original
1	74th *	2-4	Original	2-39.4	Original	3-3	Original
1.01	22nd *	2-5	Original	2-39.5	Original	3-4	Original
1.02	3rd *	2-6	Original	2-39.6	Original	3-5	Original
1.03	4th	2-7	1st	2-39.7	Original	3-6	Original
1.1	46th *	2-8	Original	2-39.8	Original	3-7	Original
1.2	9th	2-9	Original	2-39.9	Original	3-8	1st
1.3	7th	2-10	Original	2-39.10	Original	3-9	1st
2	Original	2-11	Original	2-33	Original	3-10	Original
3	1st	2-12	1st	2-34	Original	3-11	Original
4	1st	2-13	Original	2-35	Original	3-12	1st
5	1st	2-14	1st	2-36	Original	3-13	1st
6	1st	2-15	Original	2-37	2nd	3-14	1st
7	1st	2-16	1st	2-38	Original	3-15	1st
8	3rd	2-17	Original	2-39	1st	3-16	1st
9	1st	2-18	Original	2-40	1st	3-17	1st
10	2nd	2-18.1	Original	2-41	Original	3-18	1st
11	2nd	2-18.2	Original	2-42	1st	3-19	1st
12	Original	2-18.3	Original	2-43	1st	3-20	1st
13	Original	2-18.4	Original	2-44	Original	3-21	2nd
14	Original	2-18.5	Original	2-45	1st	4-1	3rd
15	4th	2-19	Original	2-46	1st	4-1.1	1st
16	1st	2-20	1st	2-47	Original	4-2	2nd
17	5th	2-21	1st	2-48	Original	4-3	2nd
18	Original	2-22	Original	2-49	Original	4-4	2nd
19	1st	2-23	1st	2-50	Original	4-5	2nd
20	Original	2-24	1st	2-51	1st	4-6	2nd
21	2nd	2-25	2nd	2-52	1st	4-7	3rd
22	4th	2-26	3rd	2-53	Original	4-8	3rd
23	3rd	2-27	3rd	2-54	Original	5-1	1st
24	Original	2-28	4th	2-55	Original	5-2	1st
25	Original	2-28.1	2nd	2-56	1st	5-3	1st
26	4th	2-29	4th	2-57	2nd	5-3.1	1st
27	Original	2-30	2nd	2-58	1st	5-3.2	1st
28	1st	2-31	Original	2-59	Original	5-4	1st
29	1st	2-32	Original	2-60	Original	5-5	Original
30	Original	2-36	2nd	2-61	2nd	5-6	Original
31	1st	2-38	1st	2-62	1st	5-7	Original
1-1	3rd	2-39	2nd	2-63	Original	5-8	Original
2-1	1st	2-39.1	Original	2-64	2nd	5-9	Original

* New or revised page.

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ACCESS SERVICE
CHECK SHEET (Cont'd)

<u>Page</u>	Number of Revision Except as <u>Indicated</u>	<u>Page</u>	Number of Revision Except as <u>Indicated</u>	<u>Page</u>	Number of Revision Except as <u>Indicated</u>	<u>Page</u>	Number of Revision Except as <u>Indicated</u>
5-10	3rd	6-25	Original	6-65	Original	6-105	Original
5-11	2nd	6-26	Original	6-66	Original	6-106	Original
5-12	2nd	6-27	Original	6-67	Original	6-107	Original
5-13	2nd	6-28	Original	6-68	Original	6-108	Original
5-14	Original	6-29	Original	6-69	Original	6-109	Original
5-15	Original	6-30	Original	6-70	Original	6-110	Original
5-16	2nd	6-31	Original	6-71	1st	6-111	Original
5-17	2nd	6-32	Original	6-72	Original	6-112	Original
5-18	Original	6-33	1st	6-73	Original	6-113	Original
5-19	Original	6-34	Original	6-74	1st	6-114	Original
5-20	2nd	6-35	1st	6-75	Original	6-115	Original
5-21	2nd	6-36	1st	6-76	Original	6-116	Original
5-22	2nd	6-37	1st	6-77	Original	6-117	Original
5-23	3rd	6-38	1st	6-78	Original	6-118	Original
5-24	2 nd	6-39	1st	6-79	1st	6-119	1st
5-25	3rd	6-40	1st	6-80	Original	6-120	2nd
6-1	Original	6-41	1st	6-81	Original	6-121	Original
6-2	Original	6-42	1st	6-82	Original	6-122	Original
6-3	Original	6-43	1st	6-83	Original	7-1	4th
6-4	1st	6-44	Original	6-84	Original	7-1.1	Original
6-5	1st	6-45	Original	6-85	Original	7-1.2	1st
6-6	Original	6-46	1st	6-86	Original	7-1.3	Original
6-7	1st	6-47	Original	6-87	Original	7-1.4	Original
6-8	1st	6-48	1st	6-88	Original	7-2	7th *
6-9	1st	6-49	Original	6-89	1st	7-3	4th
6-10	Original	6-50	Original	6-90	Original	7-4	5th *
6-11	2nd	6-51	Original	6-91	Original	7-5	1st
6-12	1st	6-52	Original	6-92	Original	7-6	4th
6-13	1st	6-53	Original	6-93	Original	7-7	1st
6-14	Original	6-54	Original	6-94	Original	7-8	1st
6-15	2nd	6-55	Original	6-95	Original	7-9	1st
6-16	1st	6-56	Original	6-96	Original	7-10	1st
6-17	Original	6-57	Original	6-97	Original	7-11	1st
6-18	1st	6-58	Original	6-98	Original	7-12	1st
6-19	1st	6-59	Original	6-99	Original	7-13	1st
6-20	1st	6-60	Original	6-100	Original	7-14	1st
6-21	Original	6-61	Original	6-101	Original	7-15	1st
6-22	Original	6-62	Original	6-102	Original	7-16	1st
6-23	Original	6-63	1st	6-103	Original	7-17	3rd
6-24	Original	6-64	Original	6-104	Original	7-18	2nd

* New or revised page.

ISSUE DATE:
January 17, 2020Issued Under Transmittal No. 110
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February 1, 2020

ACCESS SERVICE
CHECK SHEET (Cont'd)

<u>Page</u>	Number of Revision Except as <u>Indicated</u>	<u>Page</u>	Number of Revision Except as <u>Indicated</u>	<u>Page</u>	Number of Revision Except as <u>Indicated</u>
7-19	2nd	7-47.10	1st	7-60	1st *
7-20	2nd	7-47.10.0	1st	7-61	2nd *
7-21	1st	7-47.10.1	2nd	7-62	1st *
7-22	1st	7-47.10.2	1st	7-63	2nd *
7-23	1st	7-47.10.3	2nd	7-64	2nd *
7-24	2nd	7-47.10.3.0	1st	7-65	2nd *
7-25	1st	7-47.10.3.1	1st	7-66	2nd *
7-26	Original	7-47.10.4	1st	7-67	3rd
7-27	4th	7-47.10.5	1st	7-67.1	1st
7-28	2nd	7-47.11	4th	7-68	Original
7-29	3rd	7-47.12	1st	7-69	1st
7-30	1st	7-47.13	1st	7-70	1st
7-31	1st	7-47.14	1st	7-71	1st
7-32	1st	7-47.15	1st	7-72	1st
7-33	1st	7-47.15.1	1st	7-73	3rd
7-34	3rd	7-47.15.2	1st	7-74	2nd
7-35	4th	7-47.15.3	1st	7-75	4th
7-36	3rd	7-47.16	1st	7-76	4th
7-37	3rd	7-47.17	1st	7-76.1	2nd
7-38	3rd	7-47.18	1st	7-77	3rd
7-39	2nd	7-47.19	1st	7-78	1st
7-40	1st	7-47.20	1st	7-79	3rd
7-41	1st	7-47.21	1st	7-80	2nd
7-42	1st	7-47.22	1st	7-81	1st
7-43	1st	7-47.23	4th	7-82	1st
7-43.1	3rd	7-47.24	1st	7-83	1st
7-43.2	1st	7-47.25	1st	7-84	2nd
7-43.3	1st	7-47.26	1st	7-85	2nd
7-43.4	1st	7-47.27	1st	7-86	4th
7-43.5	1st	7-47.28	1st	7-87	2nd
7-44	1st	7-47.29	1st	7-88	2nd
7-45	1st	7-48	Original	7-88.1	1st
7-46	1st	7-49	Original	7-88.2	1st
7-47	1st	7-50	Original	7-89	1st
7-47.1	1st	7-51	Original	7-90	3rd
7-47.2	2nd	7-52	1st	7-91	1st
7-47.3	1st	7-53	1st	7-92	1st
7-47.4	2nd	7-54	1st	7-93	1st
7-47.5	1st	7-55	2nd *	7-94	1st
7-47.6	1st	7-56	2nd *	7-95	1st
7-47.7	1st	7-57	1st *	7-96	1st
7-47.8	1st	7-58	1st *	7-97	1st
7-47.9	1st	7-59	1st *	7-98	1st

* New or revised page.

ISSUE DATE:
January 17, 2020Issued Under Transmittal No. 110
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ACCESS SERVICE
CHECK SHEET (Cont'd)

<u>Page</u>	Number of Revision Except as <u>Indicated</u>	<u>Page</u>	Number of Revision Except as <u>Indicated</u>	<u>Page</u>	Number of Revision Except as <u>Indicated</u>
16-3	2nd	17-13	2nd	17-34.15	4th
16-4	1st	17-14	2nd	17-34.15.1	1st
16-5	1st	17-15	3rd *	17-34.16	4th
16-6	1st	17-16	2nd *	17-34.17	3rd
16-7	1st	17-17	2nd *	17-34.18	4th
16-8	2nd	17-18	3rd *	17-34.18.1	1st
16-9	2nd	17-19	3rd *	17-34.19	4th
16-10	2nd	17-20	2nd *	17-34.20	3rd
16-11	2nd	17-21	3rd *	17-34.21	4th
16-12	1st	17-22	3rd *	17-34.21.1	1st
16-13	2nd	17-23	4th	17-34.21.2	1st
16-14	2nd	17-24	1st	17-34.21.3	1st
16-15	2nd	17-25	2nd	17-34.22	4th
16-15.1	1st	17-26	3rd	17-34.23	4th
16-16	2nd	17-27	2nd	17-34.24	4th
16-17	2nd	17-28	2nd	17-34.25	4th
16-18	2nd	17-29	3rd	17-34.26	4th
16-19	2nd	17-30	3rd	17-34.27	4th
16-20	2nd	17-31	2nd	17-34.28	4th
16-21	2nd	17-32	2nd	17-34.29	4th
16-22	2nd	17-33	3rd	17-34.30	4th
16-23	2nd	17-34	3rd	17-34.31	4th
16-24	2nd	17-34.1	4th	17-34.32	4th
16-25	2nd	17-34.2	4th	17-34.32.1	1st
16-26	2nd	17-34.3	3rd	17-34.33	4th
16-27	2nd	17-34.4	3rd	17-34.33.1	1st
16-28	2nd	17-34.5	4th	17-34.33.2	1st
16-29	2nd	17-34.6	4th	17-34.34	4th
16-30	2nd	17-34.7	3rd	17-34.34.0	1st
16-31	2nd	17-34.8	3rd	17-34.34.0.1	1st
17-1	14th	17-34.8.1	1st	17-34.34.0.2	1st
17-1.1	8th	17-34.8.2	1st	17-34.34.1	1st
17-1.1.0	4th	17-34.9	7th	17-34.34.2	1st
17-1.1.1	1st	17-34.9.1	1st	17-34.34.3	1st
17-1.1.2	1st	17-34.10	2nd	17-34.34.4	1st
17-1.2	7th	17-34.11	2nd	17-34.34.5	1st
17-1.3	1st	17-34.12	3rd	17-34.34.6	1st
17-2	37th	17-34.12.0	1st	17-34.34.7	1st
17-3	2nd	17-34.12.1	1st	17-34.34.8	1st
17-4	1st	17-34.12.2	1st	17-34.34.9	1st
17-5	6th	17-34.12.3	2nd	17-34.34.10	1st
17-6	2nd	17-34.12.3.1	1st	17-34.34.11	1st
17-7	3rd	17-34.12.4	1st	17-34.34.11.1	1st
17-8	6th	17-34.12.5	1st	17-34.34.12	1st
17-9	Original	17-34.12.6	2nd	17-34.34.12.1	1st
17-10	4th *	17-34.12.7	1st	17-34.34.12.2	1st
17-11	5th *	17-34.13	4th	17-34.34.13	1st
17-12	1st	17-34.14	3rd	17-34.34.13.1	1st

* New or revised page.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

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

(1) (D)

(1) (D)

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

Program Audio^[1] - 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. (C)

Digital Data^[1] - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6, 19.2, 56.0 or 64.0 Kbps. (C)

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

(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)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions

For the purposes of ordering from this tariff, the categories of Special Access Service are:

Service Designator Codes

Voice ^[1]	VG
Program Audio ^[1]	AP
Digital Data ^[1]	DA
High Capacity	DS

(D)
(D)
(C)
(C)
(C)

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Technical specifications packages are described in Section 15 following, optional features and functions are described in this section. Channel interfaces are described in 15.2 following.

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

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be advised and given the opportunity to change the order.

The channel descriptions provided in 7.4 through 7.9 following, specify the characteristics of the basic channel and indicate whether the channel is provided between customer designated premises, between a customer designated premises and a Company hub where bridging or multiplexing functions are performed, or between a customer designated premises and a WATS Serving Office.

(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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EFFECTIVE DATE:
February 1, 2020

ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Voice Grade Service ^[1]

(C)

7.6.1 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 as 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 Services 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 Service are as set forth in Section 17 following.

7.6.2 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.

7.6.3 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)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Voice Grade Service ^[1] (Cont'd)

(C)

7.6.3 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 Section 17 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 Section 17 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.

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(N)
(N)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Voice Grade Service ^[1] (Cont'd)

(C)

7.6.3 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-TSY-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-TSY-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-TSY-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.

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January 17, 2020Issued Under Transmittal No. 110
Vice President-Public Policy & Compliance
100 CenturyLink Drive
Monroe, Louisiana 71203EFFECTIVE DATE:
February 1, 2020

ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Voice Grade Service ^[1] (Cont'd)

(C)

7.6.3 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-TSY-000335. The rate for this option is set forth in Section 17 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-TSY-000335. The rate for this option is set forth in Section 17 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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(N)

(N)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Voice Grade Service ^[1] (Cont'd)

(C)

7.6.3 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-TSY-000335. The rate for this option is set forth in Section 17 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-TSY-000335. The rate for this option is set forth in Section 17 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-TSY-000335. The rate for this option is set forth in Section 17 following.

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(N)

(N)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Voice Grade Service ^[1] (Cont'd)

(C)

7.6.3 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 Section 17 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 signaling 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 Section 17 following.

^[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)7.6 Voice Grade Service ^[1] (Cont'd)

(C)

7.6.3 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 Section 17 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.

(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 Channel Termination rate as set forth in Section 17 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 Channel Termination 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)7.6 Voice Grade Service ^[1] (Cont'd)

(C)

7.6.3 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 dBrnc
51 to 100	37 dBrnc
101 to 200	40 dBrnc
201 to 400	43 dBrnc
401 to 1000	45 dBrnc

(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.

^[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)7.7 Program Audio Service ^[1]

(C)

7.7.1 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 channels are provided between customer designated premises or between a customer designated premises and a Company hub.

Program Audio Special Access services 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 Section 17 following.

7.7.2 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.

7.7.3 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.

(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.

(N)

(N)

ACCESS SERVICE

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 for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56.0 or 64.0* 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 channels 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 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.

Rates and charges for Special Access Digital Data Service are as set forth in Section 17 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.

* When 64.0 Kbps service is multiplexed on a DS1 High Capacity service, the DS1 must be equipped to provide Clear Channel Capability.

^[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)

ISSUE DATE:
January 17, 2020

Issued Under Transmittal No. 110
Vice President-Public Policy & Compliance
100 CenturyLink Drive
Monroe, Louisiana 71203

EFFECTIVE DATE:
February 1, 2020

ACCESS SERVICE

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 channel:

<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 a 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.

^[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)

ACCESS SERVICE

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

(C)

7.8.3 Optional Features and Functions (Cont'd)(C) Public Packet Switching Network (PPSN) Interface Arrangement

An arrangement that provides the interface requirements that permit a Digital Data 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.

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 Program Audio Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)
(N)

ACCESS SERVICE

17. Rates and Charges (Cont'd)17.5 Special Access Service

Regulations concerning Special Access Service are set forth in Section 7 preceding.

17.5.1 Nonrecurring Charges

		<u>Nonrecurring Charge</u>	<u>Tariff Reference</u>	
(A)				(D)
(B)				(D)
(C)	<u>Voice Grade Service</u> ^[1]		7.6	(C)
	(1) Installation			
	Two-Wire	\$60.50		
	Four-Wire	\$60.50		
	(2) Conditioning	\$184.00		
	(3) Improved Return Loss			
	Two-Wire	\$37.00		
	Four-Wire	\$74.00		
(D)	<u>Program Audio Service</u> ^[1]		7.7	(C)
	(1) Installation			
	200 to 3500 Hz	\$112.00		
	100 to 8000 Hz	\$112.00		
	50 to 15000 Hz	\$112.00		
	(2) Conditioning	\$73.00		
	(3) Stereo	\$110.00		

(D)
|
(D)

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

(N)
(N)

ISSUE DATE:
January 17, 2020

Issued Under Transmittal No. 110
Vice President-Public Policy & Compliance
100 CenturyLink Drive
Monroe, Louisiana 71203

EFFECTIVE DATE:
February 1, 2020

ACCESS SERVICE

17. Rates and Charges (Cont'd)17.5 Special Access Service (Cont'd)17.5.1 Nonrecurring Charges (Cont'd)

	Nonrecurring <u>Charge</u>	<u>Tariff Reference</u>
(E) <u>Digital Data Service</u> ^[1]		7.8
(1) Installation		
2.4 kbps	\$150.00	
4.8 kbps	\$150.00	
9.6 kbps	\$150.00	
19.2 kbps	\$150.00	
56.0 kbps	\$150.00	
64.0 kbps	\$150.00	
(F) <u>High Capacity Service</u>		7.9
(1) Installation		
DS1	\$392.00	(C)
DS3	\$803.00	

^[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

Issued Under Transmittal No. 110
Vice President-Public Policy & Compliance
100 CenturyLink Drive
Monroe, Louisiana 71203

EFFECTIVE DATE:
February 1, 2020

ACCESS SERVICE

17. Rates and Charges (Cont'd)17.5 Special Access Service (Cont'd)

(C)

17.5.5 Voice Grade Service ^[1]

Regulations concerning Voice Grade Service are set forth in 7.6 preceding.

	<u>Monthly Rate</u>
(A) <u>Non-Competitive End User Channel Termination (EUCT)</u>	
Per Termination	
Two-Wire	\$11.80
Four-Wire	\$17.65
(B) <u>Reserved For Future Use</u>	
(C) <u>Optional Features and Functions</u>	
(1) <u>Bridging</u>	
(a) Voice Bridging, Per Port	
Two-Wire	\$3.85
Four-Wire	\$3.85

^[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)

ISSUE DATE:
January 17, 2020

Issued Under Transmittal No. 110
Vice President-Public Policy & Compliance
100 CenturyLink Drive
Monroe, Louisiana 71203

EFFECTIVE DATE:
February 1, 2020

ACCESS SERVICE

17. Rates and Charges (Cont'd)17.5 Special Access Service (Cont'd)17.5.5 Voice Grade Service ^[1] (Cont'd)

(C)

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

	<u>Monthly Rate</u>
(1) <u>Bridging</u> (Cont'd)	
(b) Data Bridging per port	
Two-Wire	\$5.35
Four-Wire	\$5.35
(c) Telemetry and Alarm Bridging	
Active Bridging Channel Connections	
Per channel connected	
Split Band	\$6.29
Summation	\$6.29
Passive Bridging Channel Connections	
Per channel connected	\$6.29

^[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

Issued Under Transmittal No. 110
Vice President-Public Policy & Compliance
100 CenturyLink Drive
Monroe, Louisiana 71203

EFFECTIVE DATE:
February 1, 2020

ACCESS SERVICE

17. Rates and Charges (Cont'd)17.5 Special Access Service (Cont'd)17.5.5 Voice Grade Service ^[1] (Cont'd)

(C)

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

	<u>Monthly Rate</u>
(2) <u>Conditioning</u> Per Termination	
<u>C-Type</u>	\$4.25
<u>Improved Attenuation</u> <u>Distortion</u>	\$23.90
<u>Improved Envelope Delay</u> <u>Distortion</u>	\$21.05
<u>Data Capability</u>	\$2.95
<u>Telephoto Capability</u>	\$29.23
<u>Sealing Current</u>	\$23.90
(3) <u>Improved Return Loss for Effective</u> <u>Two-Wire or Four-Wire Transmission</u> Per Termination	
Two-Wire	\$0.95
Four-Wire	\$8.25
(4) <u>Customer Specified Receive Level</u> Per Two-Wire Termination	None

^[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

17. Rates and Charges (Cont'd)17.5 Special Access Service (Cont'd)17.5.5 Voice Grade Service ^[1] (Cont'd)

(C)

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

	<u>Monthly Rate</u>
(5) Reserved For Future Use	
(6) <u>Signaling Capability</u> Per termination	\$7.65
(7) <u>Selective Signaling Arrangement</u> Per arrangement	N/A
(8) <u>Transfer Arrangement</u> (Dial-Up ²)	
Per four port arrangement including control channel termination ³	N/A
Per five port arrangement including control channel termination ³	N/A
(9) <u>Public Packet Switching Network</u> <u>(PPSN) Interface Arrangement</u> Per arrangement	N/A

^[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 The Dial-Up option requires the customer to purchase the Controller Arrangement from 13.3.8 preceding.

³ 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.

ACCESS SERVICE

17. Rates and Charges (Cont'd)17.5 Special Access Service (Cont'd)17.5.6 Program Audio Service ^[1]

(C)

Regulations concerning Program Audio Service are set forth in 7.7 preceding.

	<u>Monthly Rate</u>	<u>Daily Rate</u>
(A) Non-Competitive End User Channel Termination (EUCT) Per Termination		
200 to 3500 Hz	\$14.75	\$2.50
100 to 8000 Hz	\$17.65	\$3.00
50 to 15000 Hz	\$20.60	\$3.50
(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)
(N)ISSUE DATE:
January 17, 2020

Issued Under Transmittal No. 110
Vice President-Public Policy & Compliance
100 CenturyLink Drive
Monroe, Louisiana 71203

EFFECTIVE DATE:
February 1, 2020

ACCESS SERVICE

17. Rates and Charges (Cont'd)17.5 Special Access Service Cont'd)17.5.6 Program Audio Service ^[1] (Cont'd)

(C)

(C) Optional Features and Functions

	<u>Monthly Rate</u>	<u>Daily Rate</u>
(1) <u>Bridging, Distribution Amplifier</u> Per Port	\$9.18	\$0.92
(2) <u>Gain Conditioning</u> Per Service	\$9.18	\$0.92
(3) <u>Stereo</u> Per Service	\$7.50	\$0.92

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

(N)
(N)ISSUE DATE:
January 17, 2020Issued Under Transmittal No. 110
Vice President-Public Policy & Compliance
100 CenturyLink Drive
Monroe, Louisiana 71203EFFECTIVE DATE:
February 1, 2020

ACCESS SERVICE

17. Rates and Charges (Cont'd)17.5 Special Access Service (Cont'd)17.5.7 Digital Data Service ^[1]

(C)

Regulations concerning Digital Data Service are set forth in 7.9 preceding.

	<u>Monthly Rate</u>
(A) Non-Competitive End User <u>Channel Termination</u> (EUCT)	
Per termination	
2.4 kbps	\$23.50
4.8 kbps	\$23.50
9.6 kbps	\$23.50
19.2 kbps	\$23.50
56.0 kbps	\$23.50
64.0 kbps	\$25.90
(B) Reserved For Future Use	

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

Issued Under Transmittal No. 110
Vice President-Public Policy & Compliance
100 CenturyLink Drive
Monroe, Louisiana 71203

EFFECTIVE DATE:
February 1, 2020

ACCESS SERVICE

17. Rates and Charges (Cont'd)17.5 Special Access Service (Cont'd)17.5.7 Digital Data Service^[1] (Cont'd)

	Monthly Rate	(C)
(C) <u>Optional Features and Functions</u>		
(1) <u>Bridging</u> Per Port	\$4.65	
(2) <u>Loop Transfer Arrangement</u> (Dial-Up ²) Per four port arrangement ¹	N/A	
(3) <u>Public Packet Switching Network (PPSN)</u> <u>Interface Arrangement</u> Per 9.6 kbps arrangement	N/A	
Per 56.0 kbps arrangement	N/A	

¹ 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.

² The Dial-Up option requires the customer to purchase the Controller Arrangement from 13.3.4 preceding.

^[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)