

Public Utility Commission 201 High St SE Suite 100 Salem, OR 97301-3398

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November 15, 2021



BY EMAIL United Telephone Company of the Northwest, dba CenturyLink Robyn.M.Crichton@centurylink.com

RE: Advice No. 21-01

Staff of the Oregon Public Utility Commission reviewed the sheets in the filing docketed as ADV 1319. A receipted copy of the acknowledged sheet(s) in your advice filing is attached.

/s/ Nolan Moser Nolan Moser Chief Administrative Law Judge Public Utility Commission of Oregon 503-689-3622

# 7. Special Access Service

# 7.1 General

Special Access Service provides a transmission path to connect customer designated premises\*, either directly or through a Telephone Company Hub where bridging or multiplexing functions are performed, or to connect a customer designated premises and a WATS <sup>[1]</sup> Serving Office. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

(C)

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

#### 7.1.1 Channel Types

There are five types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

- Transmission specifications,
- Bandwidth,
- Speed (i.e., bit rate),
- Spectrum

Customers can order a basic channel and select, from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements.

- \* Telephone Company Centrex CO-like switches are considered to be customer premises for purposes of this tariff.
- [1] Effective November 17, 2021 WATS Access Line (WAL) Services are grandfathered. (N) Availability to current customers is limited to circuits in service at existing locations. (N)

Advice No. OR21-01

Issued: October 12, 2021 Effective: November 17, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director OR2021-19

#### **ACCESS SERVICE**

# 7. <u>Special Access Service</u> (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 channel:

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

[1] Effective November 17, 2021, Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations. (N)

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

#### **ACCESS SERVICE**

# 7. Special Access Service (Cont'd)

# 7.1 General (Cont'd)

#### 7.1.1 Channel Types (Cont'd)

Digital Data [1] - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6, 56.0 or 64.0 kbps.

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

Detailed descriptions of each of the channel types are provided in 7.2 following.

The customer also has the option of ordering digital high capacity facilities (e.g. 1.544 and 44.736 Mbps) to a Telephone Company Hub for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the Hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in 7.2 following. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are also set forth in 7.2 following.

Effective November 17, 2021, Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations. (N)

Advice No. OR21-01 Issued: October 12, 2021 Effective: November 17, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

(N)

(N)

Effective: November 17, 2021

#### **ACCESS SERVICE**

# 7. Special Access Service (Cont'd)

# 7.1 General (Cont'd)

#### 7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order provisions set forth in 5. preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Access Order Charges, Service Date Charges, Design Charges Charges, etc.).

# 7.2 <u>Service Descriptions</u>

For the purposes of ordering, there are three categories of Special Access Service. These are:

Voice Grade (VG) [1]
Digital Data (DA) [1]
High Capacity (HC)

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. Each of the components of the service is described in this section.

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 given an estimate of the hours to be billed before any further action is taken on the order.

[1] Effective November 17, 2021, this service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

- 7. Special Access Service (Cont'd)
  - 7.2 <u>Service Descriptions</u> (Cont'd)
    - 7.2.3 Voice Grade Service

Effective November 17, 2021, Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)

(N)

# (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 two-wire or four-wire. Voice Grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

Advice No. OR21-01 Issued: October 12, 2021 Effective: November 17, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

# 7. Special Access Service (Cont'd)

# 7.2 <u>Service Descriptions</u> (Cont'd)

#### 7.2.8 Digital Data Service

Effective November 17, 2021, Digital Data Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

# (N)

#### (N)

#### (A) Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 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.

The customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises. The interim program for interconnection of such equipment adheres to generally accepted industry technical standards.

#### (B) Technical Specifications Packages

	Package DA-			
<u>Parameter</u>	<u>1</u>	2	3	4
Error-Free Seconds	Χ	Χ	Χ	Χ

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.

Effective: November 17, 2021

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

# 7. Special Access Service (Cont'd)

# 7.5 Rates and Charges (Cont'd)

# 7.5.3 <u>Voice Grade Service - **Grandfathered**</u>

(C)

Effective November 17, 2021, Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N) | (N)

# (A) Channel Termination

- Without Signaling (available with all VG packages)
- Per point of Termination

		Monthly <u>Rates</u>	Nonrecurring Charges
-	Two-Wire	\$54.00	\$150.00
_	Four-Wire	\$74.00	\$150.00

# (B) Channel Termination

- With Signaling (available with VGC, VG1, VG2, VG3, VG7, VG8 and VG9)
- Per point of Termination

-	Two-Wire	\$54.00	\$150.00
-	Four-Wire	\$74.00	\$150.00

# (C) Reserved for Future Use

Advice No. OR21-01

Issued: October 12, 2021 Effective: November 17, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

# **ACCESS SERVICE**

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.3 Voice Grade Service - Grandfathered (Cont'd)

(D) **Channel Mileage** 

> Monthly Rates Fixed Per Mile

> > Effective: November 17, 2021

\$37.00 \$2.00

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director OR2021-19

#### **ACCESS SERVICE**

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.3 <u>Voice Grade Service **Grandfathered**</u> (Cont'd)
      - (E) Optional Features and Functions
        - (1) Bridging
          - (a) Voice Bridging

(available with VGC, VG2, VG5, VG6, VG10, VG11 and VG12)

Two-Wire/Four-Wire

Per port

		Monthly <u>Rates</u>	Nonrecurring Charges
-	Two-Wire	\$6.00	\$33.00
-	Four-Wire	\$6.00	\$45.00

Advice No. OR21-01 Issued: October 12, 2021 Effective: November 17, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

# **ACCESS SERVICE**

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.3 <u>Voice Grade Service **Grandfathered**</u> (Cont'd)

      - (E) Optional Features and Functions (Cont'd)
        - (1) Bridging (Cont'd)
          - (b) Data Bridging

(available with VGC, VG6 and VG10)

Two-Wire/Four-Wire

Per port

		Monthly <u>Rates</u>	Nonrecurring <u>Charges</u>
-	Two-Wire	\$4.00	\$45.00
-	Four-Wire	\$4.00	\$67.00

Advice No. OR21-01 Issued: October 12, 2021 Effective: November 17, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

# **ACCESS SERVICE**

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.3 <u>Voice Grade Service **Grandfathered**</u> (Cont'd)

(C)

- (E) Optional Features and Functions (Cont'd)
  - (1) Bridging (Cont'd)
    - (c) Telephoto Bridging

(Available with VGC and VG11)

Two-Wire/Four-Wire

Per port

		Monthly <u>Rates</u>	Nonrecurring <u>Charges</u>
-	Two-Wire	\$14.00	\$33.00
-	Four-Wire	\$14.00	\$56.00

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

(C)

# ACCESS SERVICE

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.3 <u>Voice Grade Service **Grandfathered**</u> (Cont'd)

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

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

(C)

# ACCESS SERVICE

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.3 Voice Grade Service - Grandfathered (Cont'd)

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

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director OR2021-19

(C)

# ACCESS SERVICE

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.3 Voice Grade Service - Grandfathered (Cont'd)

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

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director OR2021-19

(C)

# ACCESS SERVICE

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.3 Voice Grade Service - Grandfathered (Cont'd)

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

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director OR2021-19

# **ACCESS SERVICE**

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - Voice Grade Service Grandfathered (Cont'd) 7.5.3
      - (E) Optional Features and Functions (Cont'd)
        - (2) Conditioning

-	Per point of termination	Monthly <u>Rates</u>	Nonrecurring <u>Charges</u>
(a)	C-Type (available with VGC, VG5, VG6, VG7, VG8, VG9 and VG	10)	
		\$3.00	\$89.00
(b)	Improved Attenuation Dis (available with VGC, VG: VG7, VG8, VG9, and VG	5 VG6,	
		14.00	89.00
(c)	Improved Envelope Dela (available with VGC, VG: VG7, VG8, VG9, and VG	5, VG6,	
		73.00	89.00
(d)	Sealing Current (available VGC VG5, VG6 and VG		
		None	33.00*

Advice No. OR21-01

Issued: October 12, 2021 Effective: November 17, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

Applicable only to provision of Sealing Current subsequent to initial installation of a voice grade service.

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.3 <u>Voice Grade Service **Grandfathered**</u> (Cont'd)

(C)

- (E) Optional Features and Functions (Cont'd)
  - (3) <u>Improved Return Loss for Effective Two-Wire or Four-Wire Transmission</u>
    - Per point of termination

		Monthly Rates	Nonrecurring Charges
-	Two-Wire (available with VGC, VG2, VG3 and VG7)		
		\$3.00	\$33.00
-	Four-Wire (available with all VG packa	ges)	
		\$4.00	\$45.00

Advice No. OR21-01 Issued: October 12, 2021 Effective: November 17, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.3 <u>Voice Grade Service **Grandfathered**</u> (Cont'd)

(C)

- (E) Optional Features and Functions (Cont'd)
  - (4) <u>Customer Specified Receive Level</u> (available with all VG packages)
    - Per Two-Wire point of termination

Monthly Nonrecurring Charges\*

None \$45.00

(5) Reserved For Future Use

\* Applicable only to provision of Customer Specified Receive Level subsequent to initial installation of a voice grade service.

Advice No. OR21-01 Issued: October 12, 2021

Issued: October 12, 2021 Effective: November 17, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.3 <u>Voice Grade Service **Grandfathered**</u> (Cont'd)

(C)

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

		Monthly <u>Rates</u>	Nonrecurring Charges
(6)	Data Capability (available with VGC, VG6, VG7 and VG10)		
	- Per point of termination		
		None	\$33.00
(7)	Telephoto Capability (available VGC and VG11)	with	
	- Per point of termination		

\$12.00

\$22.00

Advice No. OR21-01 Issued: October 12, 2021

Issued: October 12, 2021 Effective: November 17, 2021 Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

# ACCESS SERVICE

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.3 <u>Voice Grade Service **Grandfathered**</u> (Cont'd)

(C)

- (E) Optional Features and Functions (Cont'd)
  - (8) Reserved for Future Use

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

# **ACCESS SERVICE**

- 7. <u>Special Access Service</u> (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.3 <u>Voice Grade Service **Grandfathered**</u> (Cont'd)

(C)

- (E) Optional Features and Functions (Cont'd)
  - (8) Reserved for Future Use (Cont'd)

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

- 7. <u>Special Access Service</u> (Cont'd)
  - 7.5 Rates and Charges (Cont'd)

# 7.5.8 Digital Data Service - Grandfathered

(C) (N)

Effective November 17, 2021, Digital Data Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)

#### (A) Channel Termination

Per point of termination

	Monthly <u>Rates</u>	Nonrecurring Charges
- Low Speeds (2.4, 4.8, 9.6 Kbps)	\$74.00	\$200.00

High Speeds (56.0, 64.0 Kbps)

\$100.00

\$250.00

Effective: November 17, 2021

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

- 7. <u>Special Access Service</u> (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.8 <u>Digital Data Service **Grandfathered**</u> (Cont'd)

(C)

- (B) Reserved For Future Use
- (C) Reserved For Future Use

Advice No. OR21-01 Issued: October 12, 2021

Issued: October 12, 2021 Effective: November 17, 2021 Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

# ACCESS SERVICE

#### 7. Special Access Service (Cont'd)

#### 7.5 Rates and Charges (Cont'd)

#### <u>Digital Data Service - Grandfathered</u> (Cont'd) 7.5.8

(D) Channel Mileage

		Monthly Rates	
		<u>Fixed</u>	Per Mile
(1)	(1) Low Speeds (2.4, 4.8, 9.6 Kbps)	\$37.00	\$2.00
(2)	High Speeds (56.0, 64.0 Kbps)	\$60.00	\$3.00

Advice No. OR21-01 Issued: October 12, 2021

By: Chantel Bosworth, Director OR2021-19

Effective: November 17, 2021 Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

# **ACCESS SERVICE**

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - <u>Digital Data Service Grandfathered</u> (Cont'd) 7.5.8

(D) Channel Mileage (Cont'd)

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Advice No. OR21-01 Issued: October 12, 2021

Effective: November 17, 2021 Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director OR2021-19

# **ACCESS SERVICE**

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - <u>Digital Data Service Grandfathered</u> (Cont'd) 7.5.8

(D) Channel Mileage (Cont'd)

This Page Reserved For Future Use

Advice No. OR21-01 Issued: October 12, 2021

Effective: November 17, 2021 Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director OR2021-19

# **ACCESS SERVICE**

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - <u>Digital Data Service Grandfathered</u> (Cont'd) 7.5.8

(D) Channel Mileage (Cont'd)

This Page Reserved For Future Use

Advice No. OR21-01 Issued: October 12, 2021

Effective: November 17, 2021 Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director OR2021-19

# **ACCESS SERVICE**

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - <u>Digital Data Service Grandfathered</u> (Cont'd) 7.5.8

(D) Channel Mileage (Cont'd)

This Page Reserved For Future Use

Advice No. OR21-01 Issued: October 12, 2021

Effective: November 17, 2021 Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director OR2021-19

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.8 <u>Digital Data Service - Grandfathered</u> (Cont'd)

(C)

- **Optional Features and Functions** (E)
  - (1) Bridging (available with all DA packages)

Monthly Nonrecurring Rates Charges

Per port

\$11.30

\$25.00

Advice No. OR21-01 Issued: October 12, 2021

Effective: November 17, 2021 Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

(3)

Effective: November 17, 2021

# **ACCESS SERVICE**

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.8 <u>Digital Data Service - Grandfathered</u> (Cont'd)

(C)

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

	Monthly <u>Rates</u>	Nonrecurring <u>Charges</u>
Data Amplification	\$85.00	\$100.00

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

# ACCESS SERVICE

- 7. <u>Special Access Service</u> (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.8 <u>Digital Data Service **Grandfathered**</u> (Cont'd)

(C)

- (E) Optional Features and Functions (Cont'd)
  - (4) Reserved For Future Use

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

- 7. Special Access Service (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.9 <u>High Capacity Service</u> (Cont'd)
      - (D) Optional Features and Functions (Cont'd)
        - (1) Multiplexing

	Monthly <u>Rates</u>	Nonrecurring Charges	
DS3 to DS1 (available with HC3) - per arrangement	\$501.00	\$200.00	
DS1 to Voice* (available with HC1), DS1 to DS0 [1] - per arrangement	\$450.00	\$150.00	(C)

[1] Effective November 17, 2021, Voice Grade and Digital Data Services are grandfathered. (N)
Availability to current customers is limited to circuits in service at existing locations. (N)

Advice No. OR21-01

Issued: October 12, 2021 Effective: November 17, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

<sup>\*</sup> A channel(s) of this DS1 to the Hub can be used for Digital Data Services.

- 7. <u>Special Access Service</u> (Cont'd)
  - 7.5 Rates and Charges (Cont'd)
    - 7.5.9 High Capacity Service (Cont'd)
      - (D) Optional Features and Functions (Cont'd)
        - (4) <u>Multiplexed Access Service Connection</u> (MASC)

		Monthly <u>Rates</u>	Nonrecurring Charges	
(a)	DS0 Level <sup>[1]</sup>	ICB	ICB	(C)
(b)	DS1 Level	\$3.00	\$75.00	

[1] Effective November 17, 2021, Voice Grade and Digital Data Services are grandfathered. (N)
Availability to current customers is limited to circuits in service at existing locations. (N)

Advice No. OR21-01 Issued: October 12, 2021

Issued: October 12, 2021 Effective: November 17, 2021 Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19

# 10. <u>Special Federal Government Access Services</u> (Cont'd)

# 10.7 <u>Service Offerings to the Federal Government</u> (Cont'd)

#### 10.7.1 Type and Description

#### (A) Voice Grade Special Access Services

Effective November 17, 2021, Voice Grade Service is grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N) | (N)

# (1) Voice Grade Secure Communications Type I

Approximate bandwidth of 10-50,000 Hertz. Furnished for twopoint secure communications on two-wire or four-wire metallic facilities between a customer premises location and an end user's premises. Services are conditioned as follows:

T-3 Conditioning - The absolute loss (referenced to 1 milliwatt) with respect to frequency shall not exceed:

15 dB at 10 Hz 13 dB at 100 Hz 9 dB at 1,000 Hz 20 dB at 10,000 Hz 30 dB at 50,000 Hz

Additional conditioning (available in one or two directions on four-wire facilities only) to provide the following characteristics:

The absolute loss (referenced to one milliwatt) with respect to frequency shall not exceed:

0 dB at 1,000 Hz

- + 1 dB between 1.000 Hz and 40.000 Hz
- + 2 dB between 10 Hz and 50,000 Hz
- (+ means more loss)

The net loss of the conditioned service (with or without additional conditioning) shall not vary by more than four dB at 1,000 Hz from the levels specified above. Voice frequency signaling or supervisory tones can be transmitted.

Effective: November 17, 2021

Advice No. OR21-01 Issued: October 12, 2021

Issued By: United Telephone Company of the Northwest d/b/a CenturyLink

By: Chantel Bosworth, Director

OR2021-19