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November 9, 2021



BY EMAIL CenturyTel of Oregon, Inc., dba CenturyLink Robyn.M.Crichton@centurylink.com

RE: Advice No. 21-02A

Staff of the Oregon Public Utility Commission reviewed the sheets in the filing docketed as ADV 1318. 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

Effective: November 17, 2021

(C)

(C)

ACCESS SERVICE

7. <u>Special Access Service</u> (Cont'd)

7.2 <u>Technical Service Descriptions for Special Access Service</u>

Special Access Service may be either analog or digital. Analog services are differentiated by spectrum and bandwidth. Digital services are differentiated by bit rate.

There are three major categories of analog service and two digital service. These are:

Analog: Narrowband - Grandfathered

Voice Grade - Grandfathered Dedicated Access Line Service

- Digital: High Capacity

Digital Data - Grandfathered

Each of these except WATS Access Line Service (**Grandfathered**), are further broken down into a number of subcategories.

This section includes the technical service descriptions for each type of analog and digital service provided, typical applications for which each type of service can be used, the optional miscellaneous functions available with specific services, transmission performances and optional available facility interface (FI) combinations with which service can be provided. The optional facility interface codes are described in 7.3 following.

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff, except that existing services with performance specifications exceeding the standards listed in this provision will be maintained at the performance levels specified in this tariff.

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- 7. Special Access Service (Cont'd)
 - 7.2 <u>Technical Service Descriptions for Special Access Service</u> (Cont'd)
 - 7.2.1 Analog Services
 - (A) Narrowband Services

Effective November 17, 2021, Narrowband Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(C) | (C)

(1) Narrowband 4 (NB4) Special Access Service

(a) <u>Description</u>

Special Access Service NB 4 provides a channel for transmission of asynchronous transitions between two current levels at rates up to 75 baud. This service is furnished for half- duplex or duplex operation on a two-point or multipoint configuration. Neither direct current continuity of this service nor the capability to transport continuously varying alternating current is assured.

(b) <u>Illustrative Applications</u>

Special Access Service NB4 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Telegraph Grade Facilities
- Entrance Facility Telegraph Grade
- Extension Service Telegraph Grade
- Teletypewriter Service
- Alarm Circuits
- Control/Remote Metering Telegraph Grade

(c) Optional Miscellaneous Functions

- Central office bridging capability.

(d) Transmission Performance

Telegraph Distortion

Remedial action will be initiated whenever the telegraph distortion is observed to exceed 9%.

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- 7. <u>Special Access Service</u> (Cont'd)
 - 7.2 <u>Technical Service Descriptions for Special Access Service</u> (Cont'd)
 - 7.2.1 Analog Services (Cont'd)
 - (A) <u>Narrowband Services</u> (Cont'd)
 - (2) Narrowband 5 (NB5) Special Access Service (Cont'd)
 - (e) Available Optional Facility Interface Combinations

Compatible FI C	ombinations
2DB2-10	10IA2
4DB2-10	10IA2
2DB2-43+	10IA2
4DB2-43+	10IA2

(B) Voice Grade Service

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

(C) | (C)

Basic voice grade facilities are unconditioned facilities capable of transmitting voice or data signals within the frequency band of approximately 300 Hz to 3000 Hz. These facilities are furnished on a two-point or multipoint basis and may be two-wire or four-wire at the points of termination. Optional functions and features may be added, at applicable charges, to enhance the operational capabilities of the facilities.

(1) Basic Voice Grade Special Access Service

(a) <u>Description</u>

Special Access Service provides a channel for voice frequency transmission capability. Usable frequencies are nominally 300 to 3000 Hz between customer and customer designated premises. The transmission interface can be either two-wire or four-wire at both the customer and the customer designated premises. Various interface options are available. This service will support effective two-wire or effective four-wire transmission.

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⁺ Supplemental Channel Assignment information required.

Effective: November 17, 2021

ACCESS SERVICE

- Special Access Service (Cont'd)
 - 7.2 Technical Service Descriptions for Special Access Service (Cont'd)
 - **Digital Services** 7.2.2
 - (A) <u>Digital Data Service</u>

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

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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, 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 Telephone Company through the Telephone 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 Telephone Company hub or hubs. 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.

The following network channel interfaces (NCIs) define the bit rates that are available for a Digital Data channel:

<u>NCI</u>	Bit Rate
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

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

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- 7. <u>Special Access Service</u> (Cont'd)
 - 7.4 Rate Regulations (Cont'd)
 - 7.4.4 Moves (Cont'd)
 - 7.4.5 <u>Rate Application Exception Rules</u>
 - (A) When WATS Access Line Service [1] is provided, the only rate elements which apply are Special Access Lines (SAL) between the end user premises and the end office (i.e., WATS serving office) and, when the end office is not a WATS serving office, Special Transport to extend the SAL to a WATS serving office. The nonrecurring charge for this service is that for the Special Access Line.

When extensions (i.e., additional terminations of the service at another building in the same or a different LATA) are provided, they are rated in the following manner. Extensions within the LATA are provided as additional Special Access Lines and Special Transport as required. The Special Access Line nonrecurring charge will also apply. Extensions in different LATAs are rated as Special Transport (from the extension bridging point to the IC serving wire center), Access Connections and one half of the monthly recurring rates and non-recurring charges for the appropriate facility interface combination will apply.

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

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ACCESS SERVICE

7.	Special	Access	Service	(Cont'd)
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7.5 Rates & Charges (Cont'd)

- 7.5.3 Features and Functions
 - (A) Optional Facility Interface Combinations
 - (1) <u>Narrowband Services</u> **Grandfathered**

(N)

Effective November 17, 2021, Narrowband Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N)

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Compatible FI Combinations	Monthly Rates Per Service <u>Termination</u>	Nonrecurring Charges Per Service <u>Termination</u>
DB-43+ TT (for use with NB4)	\$0	\$0
DB-10 IA (for use with NB5)	\$0	\$0
DB-43+ IA (for use with NB5)	\$0	\$0

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⁺ Requires Voice to Telegraph multiplexer.

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- Special Access Service (Cont'd)
 - 7.5 Rates & Charges (Cont'd)
 - 7.5.3 Features and Functions (Cont'd)
 - Optional Facility Interface Combinations (Cont'd)
 - Voice Grade Services Grandfathered (2)

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

Monthly Rates **Nonrecurring Charges** Per Service Per Service **Compatible FI Combinations Termination Termination** \$0 DB DA \$0 (for use with VG) DS AC \$0 \$0 (for use with VG) \$0 \$0 DA (for use with VG) DS EA \$0 \$0 (for use with VG) DS LS \$0 \$0 (for use with VG) NO \$0 \$0 (for use with VG) LS SF \$0 \$0 (for use with VG) NO \$0 DA \$0 (for use with VG) NO NO \$0 \$0 (for use with VG) LS \$0 \$0 (for use with VG) \$0 EA \$0 (for use with VG) SF AC \$0 \$0 (for use with VG) GS \$0 \$0 (for use with VG)

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ACCESS SERVICE

7. Special Access Service (Cont'd)
7.5 Rates & Charges (Cont'd)

7.5.3 Features and Functions (Cont'd)

(B) Reserved For Future Use

(C) <u>Hub Functions</u>

(1) Multiplexing

Monthly Rates

DS1 to DS0 - Grandfathered

\$300.00

Per Arrangement

(C)

DS3 to DS1 Per Arrangement

385.00

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ACCESS SERVICE

- 7. <u>Special Access Service</u> (Cont'd)
 - 7.5 Rates & Charges (Cont'd)
 - 7.5.3 Features and Functions (Cont'd)
 - (C) <u>Hub Functions</u> (Cont'd)
 - (2) Bridging

Narrowband Bridges - Grandfathered Telegraph Bridging: (available with NB4&NB5)	Monthly Rates	Nonrecurring <u>Charges</u>	(C)
Two-Wire - Per Port	\$ 5.35	\$ 12.00	
Four-Wire - Per Port	\$11.65	\$ 18.00	
Voice Grade Bridges - Grandfathered Voice Bridging (available with VG)			(C)
Two-Wire - Per Port	\$ 5.35	\$ 12.00	
Four-Wire - Per Port	\$11.65	\$ 18.00	
Data Bridging: - Grandfathered (available with VG)			(C)
Two-Wire - Per Port	\$ 5.35	\$ 12.00	
Four-Wire - Per Port	\$11.65	\$ 18.00	

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- 7. <u>Special Access Service</u> (Cont'd)
 - 7.5 <u>Rates & Charges</u> (Cont'd)
 - 7.5.3 Features and Functions (Cont'd)
 - (D) Optional Features and Functions
 - (1) Voice Grade Services Grandfathered

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

Monthly Nonrecurring Rates Charges (C)

(N)

(N)

(a) Conditioning:

Conditioning provides more specific transmission characteristics for data or telephoto services. There are two types of data conditioning, C-Type and DA-Type. C-Type conditioning controls attenuation distortion and envelope delay distortion; DA-Type conditioning controls the signal to C-notched noise ratio and intermodulation distortion. Telephoto conditioning controls attenuation distortion and envelope delay distortion.

Conditioning is charged for on a per two-point service or each section (i.e., mid link or end link) basis. The parameters listed for each type of conditioning apply from point of interface to network interface. For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to any path between any two service terminal points. C-Type and DA-Type conditioning are available only for data services. C-Type and DA-Type conditioning may be combined on the same service.

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ACCESS SERVICE

- 7. <u>Special Access Service</u> (Cont'd)
 - 7.5 Rates & Charges (Cont'd)
 - 7.5.3 Features and Functions (Cont'd)
 - (D) Optional Features and Functions (Cont'd)
 - (1) <u>Voice Grade Services</u> Grandfathered (Cont'd)

Monthly Nonrecurring Rates Charges

Effective: November 17, 2021

- (a) <u>Conditioning</u>: (Cont'd)
 Telephoto conditioning is
 available only for services.
- (1) <u>C-Type Conditioning</u>: For the additional control of attentuation distortion and envelope delay distortion on data services.

Attenuation Distortion (Frequency Response) Relative to 1004 Hz

Frequency	Variation
Range (Hz)	<u>(dB)</u>
400-2800	-1.0 to $+2.0$
300-3000	-1.0 to $+3.0$
300-3200	-2.0 to +6.0

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

Monthly Nonrecurring Rates Charges

(C)

- (a) <u>Conditioning</u>: (Cont'd)
 - (1) <u>C-Type Conditioning</u>:(Cont'd)

Envelope Delay
<u>Distortion</u>
Variation
Frequency (microRange (Hz) seconds)

 1000-2600
 100

 800-2600
 200

 600-2600
 300

 500-2800
 600

 500-300
 3000

(available with VG)
- Per Two-Point Service
or each Section (i.e,
mid link or end link
of a Multipoint Service

\$24.85 \$184.00

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ACCESS SERVICE

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

Monthly Nonrecurring Rates Charges

Effective: November 17, 2021

(C)

(a) Conditioning: (Cont'd)

(2) <u>DA-Type Conditioning</u>:
For the control of signal to C-notched noise ratio and intermodulation distortion on data services.
DA-Type conditioning is available for two-point services or three-point multi-point services.

The signal to C-notched noise ratio and intermodulation distortion parameters for DA-Type conditioning are:

- Signal to C-Notched Noise Ratio is equal to or greater than 32dB
- Intermodulation distortion:
- Signal to second order modulation products (R2) is equal to or greater than 38dB

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ACCESS SERVICE

- Special Access Service (Cont'd)
 - 7.5 Rates and Charges (Cont'd)
 - Features and Functions (Cont'd) 7.5.3
 - Optional Features and Functions (Cont'd)
 - Voice Grade Services Grandfathered (Cont'd) (1)

Monthly Nonrecurring Rates Charges

(C)

- (a) Conditioning: (Cont'd)
 - **DA-Type Conditioning:** (Cont'd)
 - Signal to third order modulation products (R3) is equal to or greater than 42dB

When a service equipped with DA-Type conditioning is used for voice communications, the quality of the voice transmission may not be satisfactory. (available with VG)

Per Two-Point Service or each Section (i.e., mid link or end link) of a Multipoint Service \$24.85

\$184.00

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ACCESS SERVICE

Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

> 7.5.3 Features and Functions (Cont'd)

> > Optional Features and Functions (Cont'd)

Voice Grade Services - Grandfathered (Cont'd) (1) Nonrecurring

> Monthly Nonrecurring Rates Charges

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(C)

(b) Improved return loss for effective two-wire transmission at the customer designated premises. This option is applicable to all interfaces except E&M, SF and DX when the impedance code 2 is specified. The Improved Return loss parameters are set forth in the Transmission Performance descriptions of the services with which this option is available. (Available with VG)

- Per customer designated premises \$ 1.35 \$ 37.00

Improved return loss at four-wire point (c) of interface, applicable to each two-wire leg of effective four-wire channel. The Improved Return Loss parameters are set forth in the Transmission Performance descriptions of the services with which this option is available. (Available with VG)

- Per customer location, per service \$11.85 \$ 74.00

Customer designated premises receive level (d) within a range acceptable to the Telephone Company on effective four-wire transmission. (Available with VG)

> - Per customer designated premises, per service None None

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- Special Access Service (Cont'd)
 - 7.5 Rates and Charges (Cont'd)
 - 7.5.3 Features and Functions (Cont'd)
 - (D) Optional Features and Functions (Cont'd)
 - (2) WATS Access Line Service Grandfathered

Data Transmission Parameters (the guaranteed levels are set forth in 7.2.1(d)(iv) preceding.) This option guarantees that should the IC experience trouble transmitting data over the lines that have been provided with these parameters, that the Telephone Company will test the lines, either independently or cooperatively with the customer, and take corrective action where necessary. There are no set recurring charges associated with this option. The testing, however, will be charged for at rates set forth in 13.3.5(C) (1) following. - Per service

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7. <u>Special Access Service</u> (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.4 Special Access Lines – Grandfathered

(C)

Effective November 17, 2021, the following Special Access Line Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

(N) | (N)

(A) Access Line

	Monthly	Nonrecurring
Each:	Rates	<u>Charges</u>
2-Wire Voice	\$68.27	\$56.00
2-Wire INWATS	\$68.27	\$56.00
2-Wire OUTWATS	\$68.27	\$56.00
4-Wire Voice	\$90.00	\$56.00
4-Wire INWATS	\$90.00	\$56.00
4-Wire OUTWATS	\$90.00	\$56.00

(B) Special Transport

Per Access Service

Per Access Service

Per Per Per Termination Mile \$20.00 \$0.75

DS0

7.5.5 <u>High Capacity Service</u>

(A) <u>High Capacity Special Access Line</u>

ne <u>Montniy</u>	<u>Rates</u>	
Per	Per	Nonrecurring
Termination	Mile*	Charge
\$175.00	\$165.00	\$ 400.00
\$3,500.00	\$340.00	750.00
	Per <u>Termination</u> \$175.00	Per Per <u>Termination</u> <u>Mile*</u> \$175.00 \$165.00

(B) High Capacity Transport

Per Access	Service Mo	onthly Rates
	Per	Per
	Termination	<u>Mile</u>
DS1	\$ 120.00	\$ 17.00
DS3	552.00	173.00

^{*} Per mile rate applies for each mile over 3 miles.

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7.	Special	Access Servic	e (Cont'd)
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7.5 Rates and Charges (Cont'd)

7.5.6 <u>Digital Data Access Services</u> – Grandfathered

(C)

(N)

(N)

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

		Monthly Rates	Nonrecurring Charges
(A)	Channel Termination		<u></u>
	Per termination		
	- 2.4 kbps	\$105.00	\$56.00
	- 4.8 kbps	\$105.00	\$56.00
	- 9.6 kbps	\$105.00	\$56.00
	- 19.2 kbps	\$105.00	\$56.00
	- 56.0 kbps	\$105.00	\$56.00
	- 64.0 kbps	\$115.50	\$56.00

(B) Channel Mileage

(1) <u>Channel Mileage Facility</u> Per Mile

- 2.4 kbps	\$0.75
- 4.8 kbps	\$0.75
- 9.6 kbps	\$0.75
- 19.2 kbps	\$0.75
- 56.0 kbps	\$0.75
- 64.0 kbps	\$0.75

(2) <u>Channel Mileage Termination</u>

Per Termination

- 2.4 kbps	\$20.00
- 4.8 kbps	\$20.00
- 9.6 kbps	\$20.00
- 19.2 kbps	\$20.00
- 56.0 kbps	\$20.00
- 64.0 kbps	\$20.00

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7. <u>Special Access Service</u> (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.6 <u>Digital Data Access Services</u> - **Grandfathered** (Cont'd)

(C)

Monthly Rate

Effective: November 17, 2021

(C) Optional Features and Functions

(1) Bridging Per Port N/A

(2) Loop Transfer Arrangement
Per four port arrangement
Key activated

activated N/A

(3) Public Packet Switching Network Interface Arrangement

Per 9.6 kbps arrangement
 Per 56.0 kbps arrangement
 N/A

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