



# Oregon

Kate Brown, Governor

## Public Utility Commission

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January 5, 2022



BY EMAIL

United Telephone Company of the Northwest, dba CenturyLink

Robyn.M.Crichton@centurylink.com

RE: Advice No. 21-009

Staff of the Oregon Public Utility Commission reviewed the sheets in the filing docketed as PL 190. A receipted copy of the acknowledged sheet(s) in your price list filing is attached.

*/s/ Nolan Moser*

Nolan Moser

Chief Administrative Law Judge

Public Utility Commission of Oregon

503-689-3622

**INTRAEXCHANGE PRIVATE LINE SERVICES**

3. SERVICES (Cont'd)

3.2 SERVICE DESCRIPTION

- Low Speed Data [1] - a channel for the transmission of low speed loop status signals of up to 150 baud and for the transmission of McCulloh type alarm signals. (C)
- Voice Grade [1] - a channel for the transmission of analog signals within an approximate bandwidth of 300-3000 Hz. (C)
- Local Area Data Service (LADS) [1] - a channel suitable for baseband transmission of digital data signals between points within the same serving wire center area. (C)
- Audio [1] - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 200 to 3,500 Hz, from 100 to 5,000 Hz, from 50 to 8,000 Hz or from 50 to 15,000 Hz. Audio multipoint private line channels are specially provided for the closed circuit (nonbroadcast) transmission of voice and music in one direction only. (C)
- Digital Data [1] - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6, and 56 kbps. (C)
- High Capacity Service - a channel for transmission of 1.544 Mbps isochronous serial data.

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

**INTRAEXCHANGE PRIVATE LINE SERVICES**

4. SERVICE DESCRIPTION

4.1 LOW SPEED DATA SERVICE

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

(N)  
|  
(N)

Regulations

It is expressly declared that metallic facilities are in continually decreasing supply and the Company is not obligated to continue to provide such facilities. Due to facility rearrangements, continued use of metallic facilities may be denied to existing customers with no obligation on the Company's part to pay customer equipment rearrangement costs. The Company will give the customer 90 days notification of this type of facility rearrangements. Metallic facilities are provided only where existing facilities and operating conditions permit.

All Network Access Channels must have the same Channel Performance. Any deviation from the established parameters on a given circuit will be handled on an individual case basis. All transmission measurements will be measured from the primary station.

Basic Description

These unconditioned channels are capable of transmitting low speed varying signals at rates up to 30 baud or binary signals at rates of 0-150 baud.

Service Categories

LS31- Provides for data transfer at speeds within the range of 0 to 150 baud. The channel is further defined by speed into the following functions:

0-30 baud channels provide:

- Two-point service used for key control circuits or remote status monitoring, furnished on a two-wire only basis.
- DC Channel (metallic channel) current or voltage interfaces on a two-wire basis. Available at the Company's option, on an intra-office basis only, here facilities and operations permit. This two-point or multipoint service is intended for applications where dc continuity is required.

**INTRAEXCHANGE PRIVATE LINE SERVICES**

4. SERVICE DESCRIPTION (Cont'd)

4.2 VOICE GRADE SERVICE

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

(N)  
(N)

Basic Description

Voice Grade circuits are provided with a bandwidth of 300-3000 Hz designed to meet certain specifications based on Company standards of measurement for voice transmission, data transmission, remote metering, telephoto and miscellaneous signaling purposes. Such identification is not intended to limit a customer's use of the circuits nor to imply that the circuit is limited to a particular use. These circuits are not suitable for the transmission of direct current pulses. The number of stations that may be connected and the distance over which transmission is possible may be limited by operating and transmission factors. Circuits are furnished as either two-wire or four-wire on a two-point or multipoint basis.

Service Categories

VG32 - is suitable for use as a two-point or multi-point line-type circuit. The basic channel is modified with Channel Performance providing no signaling, loop-start, automatic or manual signaling. Data capability may be added to specific combinations of loop-start signaling circuits. The loop-start signaling option provides the additional capabilities of extending the signaling ranges and of offering repeated ringing for PBX station ports.

VG33 - is suitable for use as a two-point trunk-type circuit. The basic channel is modified with Channel Performance providing no signaling, E&M or ground-start signaling. Data capability may be added to specific combinations of E&M or ground-start signaling circuits.

VG36 - is suitable for use as a two-point or multipoint voice grade (analog) circuit. All channels are provided with basic data transmission parameters modified by the appropriate Channel Performance. Additional conditioning parameters may be added to the basic Channel Performance. These conditioning parameters allow the section of attenuation distortion/envelope delay and intermodulation distortion as needed.

**INTRAEXCHANGE PRIVATE LINE SERVICES**

4. SERVICE DESCRIPTION (Cont'd)

4.3 LOCAL AREA DATA SERVICE (LADS)

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

(N)  
|  
(N)

Regulations

The customer must provide terminal equipment which converts DTE (Data Terminal Equipment) signals to a format suitable for transmission over the LADS circuit.

Basic Description

The Company will furnish Local Area Data Service, subject to availability of facilities, suitable for baseband transmission of digital data signals between two points within the same serving wire center area. Normal service is provided between two points that are not more than six route miles apart, as determined by the Company, using normal cable routing between the points to be served. Channel lengths in excess of three route miles per end from the wire center can be provided, however, a special construction charge will apply to deload and reload the cable to the original exchange specifications. The Company will not guarantee the noise and the insertion loss characteristics of circuits in excess of six route miles. Service is offered only for balanced transmission of data signals conforming to the signal power limitations and other parameters specified in the applicable Technical Reference. These circuits are furnished on either two-wire or four-wire non-loaded cable facilities.

Information pertaining to the technical specifications for this service is set forth in the Technical Publications listed under the Reference to Technical Publications.

Service Category

- LA - A circuit suitable for data transmission over limited distances. This service is provided on a two-point basis only and is provided over metallic facilities. The transmission interfaces are provided on a two-wire or four-wire basis.

Definition of Baseband Transmission

Baseband is defined as a form of modulation in which signals are pulsed directly on the transmission medium without frequency division and without a modem. The electronics of a baseband network are simpler than a broadband network.

**INTRAEXCHANGE PRIVATE LINE SERVICES**

4. SERVICE DESCRIPTION (Cont'd)

4.4 AUDIO SERVICE

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

(N)  
(N)

Basic Description

Audio channels are provided for the transmission of non-broadcast program signals on a two-point or multipoint basis. The channels are furnished on a monthly basis for closed circuit (non-broadcast) transmission of voice and/or music signals in one direction only.

Audio channels are provided between customer designated premises or between customer designated premises and a Company wire center. The service arrangement is limited to the Audio service category and may not be combined with other Private Line Services classes of service. The basic rate structure consists of the Network Access Channel and Channel Performance. Service for broadcast audio purposes may be found in United and Central Telephone Companies F.C.C. No. 1.

Information pertaining to the technical specifications and compatible channel interfaces is set forth in the Technical Publications listed under the Reference to Technical Publications preceding.

Service Categories

- AP31 - provides a non-equalized channel with a nominal bandpass from 200 to 3000 Hz.
- AP32 - provides an equalized channel with a nominal bandpass from 100 to 5000 Hz.
- AP33 - provides an equalized channel with a nominal bandpass from 50 to 8000 Hz.
- AP34 - provides an equalized channel with a nominal bandpass from 50 to 15000 Hz.

Optional Features and Functions

Central Office Bridging Capability

- Central Office Bridging (distribution amplifier) is offered for connection of multiple customer designated premises of three or more.

**INTRAEXCHANGE PRIVATE LINE SERVICES**

4. SERVICE DESCRIPTION (Cont'd)

4.4 DIGITAL DATA SERVICE

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

(N)  
(N)

Basic Description

Digital Data Service provides for the simultaneous two-way transmission of synchronous digital signals at speeds of 2.4, 4.8, 9.6 and 56 kbps between customer locations where appropriate digital facilities for this service are available as determined by the Company. To ensure satisfactory operation, the terminal equipment provided by the customer must be compatible with the channel facility provided by the Company.

Information pertaining to the technical specifications and compatible channel interfaces is set forth in the Technical Publications listed under the reference to Technical Publications preceding.

Service Categories

Digital Data Service will meet a monthly average performance equal to or greater than 95% error free seconds while the channel is in service.

- 2.4 kbps
- 4.8 kbps
- 9.6 kbps
- 56 kbps

Optional Features and Functions

Bridging - Bridging is an arrangement located in the Digital Data Service Node which allows channels to be connected to form multipoint networks.

**INTRAEXCHANGE PRIVATE LINE SERVICES**

4. SERVICE DESCRIPTION (Cont'd)

4.5 High Capacity Service (Cont'd)

Optional Features and Functions (Cont'd)

Central Office Multiplexing

DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS1 to the Hub can also be used for Digital Data.

DS1 to DS0 [1]

(C)

An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

Clear Channel Capability

Clear Channel Capability provides an increase in usable bandwidth from 1.344 Mbps to 1.536 Mbps of an unconstrained data stream across the network. Clear Channel Capability is provided only in offices with existing technical capability on 1.544 Mbps High Capacity Service and on multiplexed 44.736 Mbps High Capacity Service, and requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitutions (B8ZS) line code format. Customer equipment must be compatible with this method of providing the unconstrained signal.

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

	<u>Available with Technical Specifications Package HC-</u>		
	<u>0</u>	<u>1</u>	<u>3</u>
Automatic Loop Transfer		X	
Central Office Multiplexing:			
DS1 to Voice	X		
DS1 to DS0		X	
Clear Channel Capability		X	

[1] **Effective November 17, 2021, Private Line Services at speeds below 1.544 Mbps are grandfathered. Availability to current customers is limited to circuits in service at existing locations.**

(N)  
|  
(N)



**INTRAEXCHANGE PRIVATE LINE SERVICES**

5. RATES AND CHARGES

5.1 LOW SPEED DATA SERVICE - GRANDFATHERED

(C)

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

(N)

(N)

<u>USOC</u>	<u>MONTHLY RATE</u>	<u>NONRECURRING CHARGE</u>
<u>Network Access Channel</u>		
Per termination		
- two-wire	\$16.00	---
- four-wire	32.00	---
<u>Channel Performance</u>		
Per termination		
- LS31 Control Status Channel	10.70	138.00
- LS31 DC Channel	1.15	---
- LS31 Telegraph		
0 to 75 baud	9.15	131.00
0 to 150 baud	11.20	127.00
<u>Optional Features and Functions</u>		
<u>Bridging</u>		
- Telegraph Bridging		
per port		
0 to 75 baud	10.75	30.00
0 to 150 baud	11.20	127.00
- Direct Bridging		
per port	1.15	---

**INTRAEXCHANGE PRIVATE LINE SERVICES**

5. RATES AND CHARGES (Cont'd)

5.2 VOICE GRADE SERVICE - GRANDFATHERED

(C)

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

(N)

(N)

	<u>USOC</u>	<u>MONTHLY RATE</u>	<u>NONRECURRING CHARGE</u>
<u>Network Access Channel</u>			
Per termination			
- two-wire		\$16.00	---
- four-wire		32.00	---
<u>Channel Performance</u>			
<u>Voice Grade 32</u>			
- No Signaling		6.20	\$128.00
- Loop Start Signaling			
Type - LA		10.55	101.00
Type - LB		9.95	22.00
Type - LC		7.75	15.00
Type - LG		19.30	65.00
Type - LO		8.00	15.00
Type - LS		8.00	15.00
- Manual Ringdown		10.70	43.00
- Auto Ringdown		10.60	22.00
<u>Voice Grade 33</u>			
- No Signaling		8.10	126.00
- Ground-Start Signaling		8.70	15.00
- E&M Signaling		9.40	74.00
<u>Voice Grade 36</u>			
- No Signaling		6.10	127.00
- Data Stream		15.15	127.00

**INTRAEXCHANGE PRIVATE LINE SERVICES**

5. RATES AND CHARGES (Cont'd)

5.2 VOICE GRADE SERVICE - GRANDFATHERED (Cont'd)

(C)

<u>Optional Features and Functions</u>	<u>USOC</u>	<u>MONTHLY RATE</u>	<u>NONRECURRING CHARGE</u>
<u>Bridging</u>			
- Resistive Bridging per port			
- two-wire		\$17.45	---
- four-wire		12.95	\$20.00
- Bridge Lifter per port		5.15	30.00
- Split Frequency Bridging per port			
- two-wire		---	26.00
- four-wire		5.15	21.00

**INTRAEXCHANGE PRIVATE LINE SERVICES**

5. RATES AND CHARGES (Cont'd)

5.3 LOCAL AREA DATA SERVICE (LADS) – GRANDFATHERED

(C)

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

(N)

(N)

	<u>USOC</u>	<u>MONTHLY RATE</u>	<u>NONRECURRING CHARGE</u>
<u>Network Access Channel</u>			
<u>Per termination</u>			
two-wire		\$16.00	---
four-wire		32.00	---
<u>Channel Performance</u>			
Per termination		1.60	---

**INTRAEXCHANGE PRIVATE LINE SERVICES**

5. RATES AND CHARGES (Cont'd)

5.4 AUDIO SERVICE - GRANDFATHERED

(C)

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

(N)

(N)

<u>Network Access Channel</u>	<u>USOC</u>	<u>MONTHLY RATE</u>	<u>NONRECURRING CHARGE</u>
<u>Per Termination</u>			
- Two Wire		16.00	---
 <u>Channel Performance</u>			
<u>Per termination</u>			
- AP31 (3.0 kHz) non-equalized		.35	2.00
- AP32 (5.0 kHz) equalized		17.00	211.00
- AP33 (8.0 kHz) equalized		18.00	212.00
- AP34 (15.0 kHz) equalized		34.00	265.00
 <u>Optional Features and Functions</u>			
<u>Bridging</u>			
<u>Per port</u>			
- AP1/AP31 - 3.5/3.0 kHz		.35	2.00
- AP2/AP32 - 5.0 kHz		12.80	264.00
- AP3/AP33 - 8.0 kHz		13.70	265.00
- AP4/AP34 - 15.0 kHz		34.00	265.00

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United Telephone Company of the Northwest  
 d/b/a CenturyLink  
 PL No. 102 #21-009

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**INTRAEXCHANGE PRIVATE LINE SERVICES**

5. RATES AND CHARGES (Cont'd)

5.5 DIGITAL DATA SERVICE - GRANDFATHERED

(C)

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

(N)

(N)

<u>USOC</u>	<u>MONTHLY RATE</u>	<u>NONRECURRING CHARGE</u>
<u>Network Access Channel</u>		
Per termination		
- four-wire	\$32.00	---
<u>Channel Performance</u>		
Per termination		
- 2.4 kbps	36.00	97.50
- 4.8 kbps	37.50	97.50
- 9.6 kbps	39.15	97.50
- 56 kbps	40.50	97.50
<u>Optional Features and Functions</u>		
<u>Bridging</u>		
per port	15.00	---

**INTRAEXCHANGE PRIVATE LINE SERVICES**

5. Rates and Charges Cont'd)

5.6 High Capacity Service

Network Access Channel

	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>
1.544 Mbps - Per point of termination	\$200.00	\$250.00
Optional Features and Functions		
Multiplexing		
DS1 to DS0 [1] - Per arrangement	300.00	150.00
DS1 to Voice - Per Arrangement	300.00	150.00
Automatic Loop Transfer * - Per Arrangement	ICB	ICB
Clear Channel Capability ** - Per Channel Termination	None	50.00

(C)

\* An additional Network Access Channel Termination charge will apply whenever the spare line is provided as a leg to the customer's premises.

\*\* The nonrecurring charge only applies when Clear Channel Capability is ordered after initial service provisioning.

[1] **Effective November 17, 2021, Private Line Services at speeds below 1.544 Mbps are grandfathered. Availability to current customers is limited to circuits in service at existing locations.**

(N)  
|  
(N)