

Qwest Corporation d/b/a CenturyLink QC
PRICE LIST

(T)

**PRIVATE LINE TRANSPORT
SERVICES
UTAH**

SECTION 5
Page 49
Release 2

Issued: 8-7-2024
(A.L. 2024-P05)

Effective: 8-15-2024

5. SERVICES

5.2 SERVICE DESCRIPTIONS (Cont'd)

5.2.12 DS1 SERVICE – GRANDFATHERED

(C)

Effective August 15, 2024, Private Line DS-1 and DS-3 Services are grandfathered. New contracts or renewal of existing contracts will no longer be accepted for these services, effective immediately. Existing services are limited to circuits in service at existing locations. Customers with a contract may retain their Intrastate Private Line circuit on a month-to-month basis once the contract expires.

(N)

(N)

A. General

1. DS1 Service provides point-to-point digital facilities for two-way transmission of serial, bipolar, return to zero, isochronous digital signals at a transmission speed of 1.544 Mbps.
2. Unless specified in the DS1 Service Agreement, the terms and conditions specified herein, apply in addition to the terms and conditions set forth in this Price List.
3. Information pertaining to the technical specifications and compatible channel interfaces is set forth in the Technical Publications listed under the Reference to Technical Publications in this Price List.

(M)

(M)

(M) Material moved to Pag49.1, Release 1.

UT2024-07

Qwest Corporation d/b/a CenturyLink QC
PRICE LIST

**PRIVATE LINE TRANSPORT
SERVICES
UTAH**

SECTION 5
Page 49.1
Release 1

Issued: 8-7-2024
(A.L. 2024-P05)

Effective: 8-15-2024

5. SERVICES

5.2 SERVICE DESCRIPTIONS (Cont'd)

5.2.12 DS1 SERVICE – GRANDFATHERED (Cont'd)

B. Definitions

Bit

Denotes the smallest unit of information in the binary system of notation.

Channel Service Unit (CSU)

Denotes equipment provided by the customer to terminate a digital facility on the customer's, user's or Other Common Carrier's premises.

Circuit

Denotes the channel, service function and those items required to provide the service functions that are furnished to the customer by the Company as an end to end unit (without intermediate connectors or switching arrangements).

Isochronous

Denotes data transmission where timing is derived from the signal carrying the data (i.e., no timing or clock lead is provided at the customer interface).

Network Access Channel

Denotes the transmission path between the customer premises and the serving wire center.

(M)

(M)

(M) Material moved from Page 49, Release 1.

Qwest Corporation d/b/a CenturyLink QC
PRICE LIST

(T)

**PRIVATE LINE TRANSPORT
SERVICES
UTAH**

SECTION 5
Page 50
Release 2

Issued: 8-7-2024
(A.L. 2024-P05)

Effective: 8-15-2024

5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.12 DS1 SERVICE – GRANDFATHERED

(C)

B. Definitions (Cont'd)

Network Channel Terminating Equipment

Denotes the part of a circuit that is located adjacent to and on the Company side of the demarcation point. It provides a physical interface to the circuit in terms of design, installation and testing.

Service Function

Denotes the means of improving the utility or quality of a circuit to meet specific communication needs.

Serving Wire Center

Denotes the Company office from which dial tone for local exchange service would normally be provided to the customer's premises. It is the demarcation point between the Network Access Channel and the Transport Mileage.

Transport Mileage

Denotes a path for digital transmission between serving wire centers. Transport Mileage can only be provided where the originating and terminating serving wire centers, as well as all intermediate Company offices, are equipped with suitable digital facilities and equipment.

Qwest Corporation d/b/a CenturyLink QC
PRICE LIST

(T)

**PRIVATE LINE TRANSPORT
SERVICES
UTAH**

SECTION 5
Page 51
Release 2

Issued: 8-7-2024
(A.L. 2024-P05)

Effective: 8-15-2024

5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.12 DS1 SERVICE – GRANDFATHERED (Cont'd)

(C)

C. Terms and Conditions

1. Availability of Service

- a. DS1 Service can only be provided from wire centers equipped for digital transmission. This service is subject to the technical limitations of the central office equipment used by the Company.
- b. A wire center or facilities may be equipped for digital transmission to accommodate a customer request. Special construction charges may apply depending on the circumstances in each case.

2. Provision of Service

DS1 Service is available only on a two point basis, 24 hours per day, 7 days a week.

3. End-Link or Mid-Link Application

This application is intended for customers requiring Private Line Transport as part of an overall circuit, extending beyond the LATA. A mechanized Design Layout Report (DLR) is provided to the customer to assist in their overall design. The network channel interface between the Company facility and the remainder of the overall circuit is referred to as the Mid User-POT (Point of Termination). The network channel interface that is at the terminating end of the overall circuit is referred to as the End User-POT.

4. End-to-End Application

This application is intended for customers requiring an overall Private Line Transport by the Company within the LATA. No DLR will be provided since the performance and maintenance will be the responsibility of the Company. The network channel interface at the terminating end of the overall circuit is referred to as the End User-POT.

Qwest Corporation d/b/a CenturyLink QC
PRICE LIST

(T)

**PRIVATE LINE TRANSPORT
SERVICES
UTAH**

SECTION 5
Page 52
Release 2

Issued: 8-7-2024
(A.L. 2024-P05)

Effective: 8-15-2024

5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.12 DS1 SERVICE – GRANDFATHERED

(C)

C. Terms and Conditions (Cont'd)

5. Facility Hubs

A customer has the option of ordering digital facilities (e.g., DS1) to a facility hub for channelizing to individual services requiring lower capacity facilities (e.g., Voice Grade, Audio, etc.) where facilities available.

Different locations may be designed as hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. When ordering, the customer will specify the desired multiplexing hub(s) selected from the National Exchange Carrier Association Tariff F.C.C. No. 4. This tariff identifies the type(s) of multiplexing functions which are available and the serving wire centers at which they are available.

Some of the types of multiplexing available include the following:

- From higher to lower bit rate
- From digital to voice frequency channels

End-to-end services may be provided on channels of these facilities to a hub. The transmission performance for the end-to-end service provided between the customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps facility is multiplexed to voice frequency channels, the transmission performance of the channelized services will be voice grade, not DS1.

The Company will commence billing the monthly rate for the facility to the hub on the service due date specified by the customer on the service order. Individual services utilizing these facilities may be installed coincident with the installation of the facility to the hub, or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for the appropriate Network Access Channel, Transport Mileage (when applicable), and the multiplexer at the time the DS1 facility is installed. Individual service rates (by service type) will apply for a Network Access Channel, Channel Performance and additional Transport Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed.

Qwest Corporation d/b/a CenturyLink QC
PRICE LIST

(T)

**PRIVATE LINE TRANSPORT
SERVICES
UTAH**

SECTION 5
Page 53
Release 2

Issued: 8-7-2024
(A.L. 2024-P05)

Effective: 8-15-2024

5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.12 DS1 SERVICE – GRANDFATHERED

(C)

C.5. (Cont'd)

Cascading multiplexing occurs when a digital channel is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a DS1 facility is de-multiplexed to twenty-three DSO facilities and then one of the DSO facilities is further de-multiplexed to subrate (e.g., ten 4.8 kbps).

When cascading multiplexing is performed whether in the same or a different hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different hubbing locations. Transport Mileage charges also apply between the hubs.

6. Shared Use

Shared use occurs when Private Line Transport Service and Switched Access Service are provided over the same DS1 facilities through a common interface. The facility will be ordered, provided and rated as Private Line Transport Service. The nonrecurring charge that applies when the Shared Use Facility is installed will be the nonrecurring charge associated with the appropriate Private Line Transport, DS1 Channel. Rating as Private Line Transport will continue until such time as the customer chooses to use a portion of the available capacity for providing Switched Access Service. As each individual channel is activated for Switched Access Service, the Private Line Transport rates will be reduced accordingly (e.g., 1/24th for a DS1 service, etc.). The customer must place an order for each individual Switched Access or Private Line Transport Service utilizing the Shared Use Facilities and specify the channel assignment for each such service.

Switched Access Service rates and charges will apply for each channel of the Shared Use Facility that is used to provide Switched Access Service. Where Private Line Transport Service is provided utilizing a channel of the Shared Use Facility to the hub, DS1 rates and charges will apply for the facility to the hub and individual service rates and charges will apply from the hub to the customer designated premises. The rates and charges that will apply to the portion from the hub to the customer designated premises will be dependent on the specific type of Private Line Transport Service that is provided (e.g., Voice Grade, etc.).

Qwest Corporation d/b/a CenturyLink QC
PRICE LIST

(T)

**PRIVATE LINE TRANSPORT
SERVICES
UTAH**

SECTION 5
Page 54
Release 2

Issued: 8-7-2024
(A.L. 2024-P05)

Effective: 8-15-2024

5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.12 DS1 SERVICE – GRANDFATHERED

(C)

C. Terms and Conditions (Cont'd)

7. Optional Features and Functions

Optional features and functions available where determined by the Company to be technically feasible.

a. Central Office Multiplexing

(1) DS1 to Voice

An arrangement that provides a Company multiplexer which converts a 1.544 Mbps channel to 24 channels. The 24 channels may be used for the provision of Voice or Data applications.

(2) DS1 to DSO

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

b. D.C. Line Power

D.C. Line Power provides a D.C. connection, between the simplexes of the transmit and receive pairs, and provides 60mA from a constant current source. The connection will be at the customer end user's point of termination, i.e., in accordance with Part 68 of the Federal Communications Commission Rules and in association with the DU channel interface code.

Qwest Corporation d/b/a CenturyLink QC
PRICE LIST

(T)

**PRIVATE LINE TRANSPORT
SERVICES
UTAH**

SECTION 5
Page 55
Release 2

Issued: 8-7-2024
(A.L. 2024-P05)

Effective: 8-15-2024

5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.12 DS1 SERVICE – GRANDFATHERED

(C)

C.7. (Cont'd)

c. Clear Channel Capability

An arrangement that allows a customer to transport 1.536 information rate signals through a 1.544 Mbps line rate with no constraint on the quantity or sequence of ones (mark) and zero (space) bits.

(1) Basic Option

This option requires the customer signal at the channel interface to conform to either the bipolar AMI line code with Zero Byte Time Slot Interchange (ZBTSI) algorithm or the Bipolar with Eight Zero Substitution (B8ZS) as described in Technical Reference PUB 77323. If the channel interface conforms to the B8ZS line code algorithm, it may be transcoded to ZBTSI for transmission through the network.

(2) B8ZS Option

This option requires the customer signal at the channel interface to conform to the Bipolar with Eight Zero Substitution (B8ZS) line code algorithm as described in Technical Reference PUB 77323. This option allows B8ZS line code transmission through the network without being transcoded.

8. Allowance For Interruptions

Allowance for Interruption will be provided for as specified in the DS1 Service Agreement under Out-of-Service Credit.

9. Mileage Measurements

The mileage for the Transport Mileage element is the airline distance measured between the serving wire centers as determined in the National Exchange Carrier Association Tariff F.C.C. No. 4.

Qwest Corporation d/b/a CenturyLink QC
PRICE LIST

(T)

**PRIVATE LINE TRANSPORT
SERVICES
UTAH**

**SECTION 5
Page 56
Release 3**

Issued: 8-7-2024
(A.L. 2024-P05)

Effective: 8-15-2024

5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.12 DS1 SERVICE – GRANDFATHERED

(C)

C. Terms and Conditions (Cont'd)

10. Connections

Equipment and Systems (i.e., terminal equipment, derivation equipment and customer provided communications systems) may be connected with DS1 Service when such a connection is made in compliance with CFR 47 Part 68 of the F.C.C.'s Rules and Regulations (commonly known as the F.C.C.'s Registration Program), and in accordance with the provisions specified in Technical Reference Publication AS No. 1 and in 2.1 of this Price List.

D. Rates and Charges

The rates and charges for DS1 and Optional Features and Functions will be developed on an individual case basis.

E. Service Information

SERVICE	NETWORK CHANNEL CODE
End-Link or Mid-Link 1.544	HC
End-To-End 1.544	UH