

NEW APPLICATION



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CenturyLink™

2017 MAR - 9 P 3 36

March 9, 2017

Docket Control
Arizona Corporation Commission
1200 W. Washington Street
Phoenix, Arizona 85007

T-01051B-17-0068

Dear Sir or Madam:

This filing is being made on behalf of Qwest Corporation d/b/a CenturyLink QC, Entity Code T-01051B.

Enclosed for filing with the Commission is an original plus thirteen (13) copies of revisions to CenturyLink's Competitive Private Line Transport Services Tariff No. 6.

In this filing CenturyLink is adding a 40 Gigabit Port as an option on GeoMax circuits and grandfathering the OC768 Port. As part of this filing CenturyLink is also removing obsolete U S West tariff references.

CenturyLink respectfully requests that this proposed changes become effective April 9, 2017.

If you have any questions regarding this filing, please contact me directly.

Sincerely,

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Enclosures

Arizona Corporation Commission

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1.6 EXPLANATION OF ABBREVIATIONS (Cont'd)

MST	- Manual Scheduled Testing
MTS	- Message Telecommunications Service
N.	- North
NA	- Not Applicable
No.	- Number
NRC	- Nonrecurring Charge
NST	- Nonscheduled Testing
NTS	- Non-Traffic Sensitive
OTPL	- Zero Transmission Level Point
OWS	- Optical Wavelength Service
PBX	- Private Branch Exchange
PCM	- Pulse Code Modulation
PI	- Priority Installation
PIU	- Percent Interstate Use
PL	- Private Line
PLAR	- Private Line Automatic Ringdown
P.O.	- Post Office
POT	- Point of Termination
PR	- Priority Restoration
rms	- root-mean-square
S.	- South
SRL	- Singing Return Loss
SWC	- Serving Wire Center
TAS	- Telephone Answering Service
TIM	- Tariff Information Management
TLP	- Transmission Level Point
TSP	- Telecommunications Service Priority
TST	- Tandem Switched Transport
U.S.	- United States
USASCII	- U.S. American Standard Code For Information Interexchange
V	- Vertical
VG	- Voice Grade
V & H	- Vertical & Horizontal
W.	- West

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1.9 REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

- C. The following Qwest Corporation Technical publications are referenced in this Tariff and may be viewed at <http://www.qwest.com/techpub>.

TITLE	PUBLICATION NUMBER	
DS1 Service Publication	77200	(T)
Digital Data Service Product Description, Applications, and Interface Combinations	77204	(T)
Voice Grade Special Service - Basic Voice - Transmission Parameters and Interface Combinations	77309	
Qwest Corporation - Analog Channels for Non-Access Services	77311	
Digital Data Service, Technical Description	77312	(T)
Qwest Corporation Technical Publication Low-Speed Data Channels Interface Specifications Combinations	77313	
Qwest Corporation - Local Area Data Service	77314	
Special High Voltage Protection	77321	

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1.9 REFERENCE TO TECHNICAL PUBLICATIONS

C. (Cont'd)

TITLE	PUBLICATION NUMBER	
DS3 Service	77324	(T)
Simultaneous Voice and Data Service (SVDS), (Digital Data Over Voice Technology) Digital Access Arrangements, Network Interface Specifications	77331	
Qwest Corporation Self Healing Network Service	77332	
Qwest Corporation Self Healing Alternate Route Protection	77340	
Qwest Corporation Diversity and Avoidance	77344	
Command A Link Technical Descriptions and Interface Combinations	77371	
1.544 Mbit/s Channel Interfaces Technical Specifications for Network Channel Interface Codes Describing Electrical Interfaces at Customer Premises and at Qwest Corporation Central Offices	77375	
Expanded Interconnection and Collocation for Private Line Transport and Switched Access Service	77386	
GeoMax	77407	
Optical Wavelength Service (formerly QWave)	77412	

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5. SERVICES

5.1 GENERAL

5.1.1 SERVICE TYPES (Cont'd)

Digital Data Service

A channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6, 19.2, 56 and 64 kbps. Subrated DS0 is also available.

Simultaneous Voice Data Service (SVDS)

A data channel derived from a voice service that allows for the simultaneous transmission of voice and digital data signals over a shared exchange access line or network access channel facility.

DS1

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A channel for point to point two-way transmission at a speed of 1.544 Mbps per second.

DS3

(T)

A channel for point to point, two-way high speed digital transmission at speeds of 45 Mbps.

Self-Healing Network Service (SHNS)

A service designed to provide high capacity digital services, connecting multiple customer locations and a Company wire center, which automatically detects a failure anywhere within its network, and reconfigures itself around the point of failure, to insure a near continuous flow of information within the survivable network.

GeoMax Service

A service that provides a high speed, multi-protocol, dedicated fiber optic connection between customer locations, with a total transport capacity of either 80 Gbps for a protected system or 160 Gbps for an unprotected system.

Optical Wavelength Service (OWS)

Optical Wavelength Service (OWS) is a circuit-based service, utilizing shared Dense Wave Division Multiplexing (DWDM) technology to provide dedicated, point-to-point bandwidth on a common Qwest infrastructure.

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5. SERVICES

5.1 GENERAL (Cont'd)

5.1.2 RATE CATEGORIES

There are four basic rate categories which apply to Private Line Transport Service:

- Network Access Channel
- Channel Performance
- Transport Mileage
- Optional Features and Functions

A. Network Access Channel[1]

The Network Access Channel provides a two-wire or four-wire communications path between the POT and the normal serving wire center of that premises. One Network Access Channel charge applies per channel terminated at the POT. This charge will apply even if the customer designated premises and the serving wire center are collocated in the same building.

B. Channel Performance[1]

The Channel Performance provides the electronic equipment which is added to the Network Access Channel to provide the desired level of transmission performance. It modifies the circuit with the basic performance necessary for the circuit to function. If appropriate, it may also provide various signaling parameters to enhance the basic performance. Included as part of the Channel Performance is a Network Channel Interface (NCI) or POT arrangement which defines the technical characteristics at the interface between the customer and the Company. One Channel Performance charge will apply per Network Access Channel.

[1] Not applicable on DS1 and DS3 service.

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5.1 GENERAL (Cont'd)

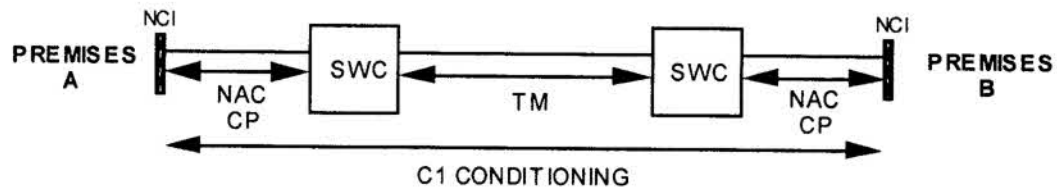
5.1.3 SERVICE CONFIGURATIONS

The two types of service configurations over which Private Line Transport Service can be provided are:

- Two point
- Multipoint

A. Two-Point Service

1. A two-point service connects two customer-designated premises through a Company wire center or a customer designated premises and a wire center.
2. Applicable rate categories are:
 - Network Access Channel[1]
 - Transport Mileage (when applicable)
 - Channel Performance[1]
 - Optional Features and Functions (when applicable)
3. The following diagram depicts a two-point service connecting two customer-designated premises with serving wire centers (SWC) located 15 miles apart. This service is provided with C1 - Type Conditioning. The location of the Network Channel Interface (NCI) is noted on the diagram.



Applicable rate categories for this example are:

- Network Access Channels (NAC) (2)
- Transport Mileage (TM) (Mileage band over 8 to 25 miles)
- Channel Performance (CP) (2)
- Optional Features and Functions (C1 Conditioning) (2)

[1] For DS1 and DS3 Services, a Channel Termination rate element applies instead of a Network Access Channel and Channel Performance.

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5.1 GENERAL

5.1.3 SERVICE CONFIGURATIONS (Cont'd)

B. Multipoint Service

1. Multipoint service connects three or more customer-designated premises through a Company wire center. When more than four bridging locations are provided in tandem, the quality of the service may be degraded. Only certain types of Private Line Transport Service are provided as multipoint service. These are so designated in the Service Descriptions set forth in 5.2, following.
2. When ordering, the customer may specify the desired bridging location(s) selected from National Exchange Carrier Association Tariff F.C.C. No. 4. The Company, when requested to do so, will assist the customer in selecting the bridge location(s).
3. Applicable rate categories are:
 - Network Access Channel[1]
 - Transport Mileage (when applicable)
 - Channel Performance[1]
 - Optional Features and Functions (when applicable)

[1] For DS1 and DS3 Services, a Channel Termination rate element applies instead of a Network Access Channel and Channel Performance.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS (Cont'd)

5.2.13 DS1 SERVICE

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A. Description

DS1 Service provides for the two-way transmission of 1.544 Mbit/s digital signals, on a point-to-point basis only. DS1 Service can be provisioned on copper, fiber, or other suitable facilities, at the discretion of the Company. DS1 Service may be used for the transmission of voice, data, and video signals, or any combination thereof. DS1 Service is provided between two customer designated premises, between a customer designated premises and a Company Serving Wire Center, or between Company Serving Wire Centers. When DS1 Service is requested between two Company Serving Wire Centers, Central Office Multiplexers must also be ordered on each end (i.e., each Serving Wire Center) of the DS1 circuit, and a Private Line Transport service must be ordered from each Central Office Multiplexer to the customer premises.

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DS1 Service may also be provided without framing. A Free-Framed DS1 signal shall have electrical characteristics identical to the framed 1.544 Mbit/s signals for DS1 Service with B8ZS, except for the lack of an apparent Frame Format. Free-Framing is not compatible with multiplexed DS1 Service. Free-Framed DS1 can only be provided where suitable equipment is available.

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. All Frame Format and line code combinations found in the Technical Publication are available for DS1 Service provisioned as point-to-point, or as Central Office multiplexed service.

B. Terms and Conditions

The terms and conditions specified in the DS1 Service Agreement, apply, in addition to the terms and conditions set forth here and in Section 2 of this Tariff.

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1. Availability

- DS1 is available only on a two-point basis, 24 hours per day, 7 days a week.
- DS1 Service can only be provided from wire centers equipped for digital transmission and is subject to the technical limitations of the CO equipment used by the Company.
- Where suitable facilities are unavailable for provision of the service, special construction of the facilities may be necessary and will be charged for as specified in Private Line Transport Service Catalog.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

B.1. (Cont'd)

- If a customer requests that DS1 service be provided on fiber facilities, special construction charges as specified in Private Line Transport Service Catalog, may apply.
 - A customer may request that the facilities used to provide DS1 Service be specially routed. The terms, conditions and charges for Facilities Protection-Special Facilities Routing (i.e., Avoidance and Diversity) are as set forth in Private Line Transport Service Catalog.
2. Credit Allowance for Service Interruption shall be as specified in 2.4.5, preceding.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

B. Terms and Conditions (Cont'd)

3. Payment Options

DS1 Service is offered on a month-to-month basis, and on one through ten year Fixed-Period Rate Plans, as specified in 5.2.13.G.5., following.

4. Route Discounts

Route discounts are available for customers who purchase multiple, identical DS1 circuits between the same two (2) customer designated premises (i.e., circuits must terminate at the same addresses). Route discounts are applicable only on the Channel Termination and Transport Mileage rate elements. The rates, as specified in 6.2.13, include the route discounts.

5. Custom Offering

If the standard service, as described and offered, does not meet a particular customer requirement, the customer may request and the Company may develop a Custom offering. The service and/or optional features will be developed and rated on an individual case basis. Special Construction Charges as defined in Private Line Transport Service Catalog may apply.

6. Service Guarantee

Service Guarantee - Repair, as specified in 2.4.5.B.5., preceding, and Service Guarantee - Provisioning, as specified in Private Line Transport Service Catalog, do not apply for Free-Framed DS1 Service.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE (Cont'd)

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C. End-Link or Mid-Link Application

This application is intended for customers requiring DS1 as part of an overall circuit, extending beyond the LATA. A Design Layout Report (DLR) is available to the customer to assist in their overall design. A DLR will be provided as specified in Private Line Transport Service Catalog. 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.

D. End-to-End Application

This application is intended for customers requiring a DS1 service provided 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.

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5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE (Cont'd)

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E. Rate Categories

There are three basic rate categories which apply to DS1 Service:

- Channel Termination
- Transport Mileage
- Optional Features and Functions

1. Channel Termination

The Channel Termination provides for the communications path between the Demarcation Point at the customer designated premises, and the Serving Wire Center of that premises. One Channel Termination charge applies per DS1 terminated at the Demarcation Point. This charge will apply even if the customer designated premises and the Serving Wire Center are collocated in the same building.

If a customer provides the channel facility assignment (CFA) for the multiplexer of a higher capacity service, the DS1 Channel Termination charge does not apply between the Serving Wire Center and the customer's designated premises, connected by the higher capacity service.

- For example, if an end-user wants to connect to an Interexchange Carrier's (IC) point of presence (POP), and the IC provides CFA, the DS1 Channel Termination connecting the Serving Wire Center to the IC POP is not billed because the IC is already paying for that connection, via the higher capacity service. If the IC does not provide CFA, then the Company must provide the connection from the Serving Wire Center to the IC POP and the DS1 Channel Termination applies.

2. Transport Mileage

The Transport Mileage provides for the transmission facilities between the Serving Wire Centers associated with two customer designated locations. Transport Mileage is portrayed in mileage bands. There are two elements that apply for each band i.e., a fixed rate and a per mile rate. Transport Mileage is measured by airline miles between Serving Wire Centers via the V and H Coordinates Method, as set forth in the National Exchange Carrier Association Tariff F.C.C. No. 4.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

E. Rate Categories (Cont'd)

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3. Optional Features and Functions

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

a. Central Office Multiplexing

(1) DS1 to Voice/Data

An arrangement that provides a Company multiplexer, in a Company central office, which converts a 1.544 Mbit/s channel to twenty-four 64 kbit/s channels. The twenty-four channels may be used for the provision of Private Line Transport Voice or Data applications.

- SuperFrame format with AMI line code
- SuperFrame format with B8ZS line code
- Extended SuperFrame format with AMI line code
- Extended SuperFrame format with B8ZS line code
- ANSI Extended SuperFrame with AMI line code
- ANSI Extended SuperFrame with B8ZS line code

(2) DS1 to DS0

An arrangement that converts a 1.544 Mbit/s DS1 channel to twenty-four 64 kbit/s DS0 channels utilizing time division multiplexing. The twenty-four channels are used for Digital Data Services. This option is provided with the following network channel interfaces:

- SuperFrame format with AMI line code
- SuperFrame format with B8ZS line code
- Extended SuperFrame format with AMI line code
- Extended SuperFrame format with B8ZS line code
- ANSI Extended SuperFrame with AMI line code
- ANSI Extended SuperFrame with B8ZS line code

Network channel interfaces are further described in PUB 77200.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

E.3. (Cont'd)

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b. Central Office Multiplexer to Multiplexer Connecting Arrangement

This arrangement allows a customer to connect an individual DS1 channel from one multiplexer to an individual DS1 channel of another multiplexer, within the same Company serving wire center. In addition, this arrangement can be used to connect an individual DS1 channel of one multiplexer to an individual DS1 channel of another multiplexer, located in a different Company serving wire center. This feature may be optioned for the Bipolar with Eight Zero Substitution (B8ZS) line code.

When a Central Office Multiplexer to Multiplexer Connecting Arrangement is made within the same serving wire center, only one arrangement will apply. When a Central Office Multiplexer to Multiplexer Connecting Arrangement is made in different serving wire centers, one arrangement will apply for each serving wire center. Transport Mileage, if applicable, will also apply. For example, a customer who wants to connect one 1.544 Mbit/s channel on a DS3 to DS1 Multiplexer from serving wire center A to a DS3 to DS1 Multiplexer in serving wire center B, would pay for two Central Office Multiplexer to Multiplexer Connecting Arrangements and Transport Mileage as set forth in 6.2.13, following.

c. Clear Channel Capability

An arrangement that allows a customer to transport any framed sequence of binary ones and zeroes through a 1.544 Mbit/s channel.

(1) 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 PUB 77375. This option allows B8ZS line code transmission through the network without being transcoded.

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5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

E.3. (Cont'd)

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d. Central Office Connecting Channel

The Central Office Connecting Channel provides for connections within the same Hub wire center between one customer leased DS1 Channel and a different customer leased DS1 Channel provided by the Company (e.g., two like services installed as two separate services). One Central Office Connecting Channel charge applies per connection made.

e. Automatic Loop Transfer (Automatic Protection Switching)

The Automatic Loop Transfer option provides protection against failure of metallic facilities between a customer designated premises and the Serving Wire Center for the premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare DS1 when the working DS1 fails. The spare DS1 is not included as a part of this option, and is charged for in addition to this option. This option requires compatible equipment at both the Serving Wire Center and the customer premises. The customer is responsible for providing the equipment at its premises. This feature is not available with channel having the B&ZS line code.

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5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

E.3. (Cont'd)

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f. Command A Link

This option allows the customer to control the reconfiguration of a Private Line Transport Service (digital or analog) on a near real-time basis, by means of the special provisioning of these services through a digital cross-connect device. Command A Link can accommodate the termination of circuits up to the 64 kbit/s[1], 1.544 Mbit/s[2], and 44.736 Mbit/s[3] signal levels. Customer access to the reconfiguration capability is via a Web Based Access arrangement and/or an Attendant Access arrangement. Terms, conditions, rates and charges for Command A Link are specified in Private Line Transport Service Catalog.

Command A Link is available only in selected serving wire centers.

g. Self-Healing Alternate Route Protection (SHARP)

SHARP provides added reliability to DS1 Service transported over fiber facilities. This feature provides a separate facility path to avoid any single point of failure for the protection system between the Serving Wire Center and the Company Demarcation Point, located in the same building as the customer designated premises, when the customer or building owner provides the structure for diverse entrance facilities into the building. In those instances where the customer or building owner requests the SHARP Option but does not provide the structure for diverse entrance facilities into the building, this feature provides a separate facility path for the protection system between the first utility vault outside the Serving Wire Center (generally all facilities leave a wire center, to the first utility vault within the same conduit, cable, sheath, etc.) and the last terminal prior to the customer's premises.

[1] Applicable to Voice Grade and Digital Data Service.

[2] Applicable to Voice Grade, Digital Data Service and DS1 Service.

[3] Applicable to DS1 and DS3 Service.

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5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

E.3.g. (Cont'd)

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The added protection is provided by ensuring that backup electronics and two physically separate facility paths are used in the provisioning of the service. A primary (or working) service path is established between the Serving Wire Center and the customer designated premises. A secondary (or protect path) is provisioned between the customer designated premises and the Serving Wire Center via a Company designated Alternate Wire Center. Should the working path or electronics fail, or the service performance become impaired (i.e., the bit error rate degenerates to less than or equal to 10 to the minus 6) the DS1 Service will automatically switch to the service protect path in order to maintain a near continuous flow of information between locations.

Due to constraints of the local network architecture as determined by the Company, there may be occasions where the service will be provisioned without the use of an Alternate Wire Center.

The offering of SHARP contemplates the use of existing facilities. There may be occasions where the SHARP option is not available due to facilities limitations, or where it may be necessary to construct such facilities, either as normal or Special Construction. If Special Construction is involved using a route or type of facility other than that which the Company would normally use, an additional charge to the recurring monthly rates for service, is applicable. The charge is equal to the difference between the charges of the specially constructed facilities and the recurring cost of the facilities the Company would have normally used. The additional charges will be designed to recover the additional costs over the requested service period of the Special Facilities Routing in order to allow all rates and charges to expire consecutively.

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5.2 SERVICE DESCRIPTIONS

5.2.13 DSI SERVICE

E.3.g. (Cont'd)

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Rate applicable to SHARP is in addition to the DSI Channel Termination(s) and Transport Mileage, if applicable, on the primary portion of the circuit.

The Transport Mileage, if applicable, applies in addition to the SHARP rate elements, and is calculated on the airline distance between Alternate Wire Center(s) utilized to provide the alternate route protection.

Technical Specifications for SHARP are delineated in PUB 77340.

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5.2 SERVICE DESCRIPTIONS
5.2.13 DS1 SERVICE (Cont'd)

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F. Service Information

SERVICE	NETWORK CHANNEL CODE
End-Link or Mid-Link	
1.544 - Month-to-Month	HC++
- 1 Year	HC++
- 2 Year	HC++
- 3 Year	HC++
- 4 Year	HC++
- 5 Year	HC++
- 6 Year	HC++
- 7 Year	HC++
- 8 Year	HC++
- 9 Year	HC++
- 10 Year	HC++
End-to-End	
1.544 - Month-to-Month	HC++
- 1 Year	HC++
- 2 Year	HC++
- 3 Year	HC++
- 4 Year	HC++
- 5 Year	HC++
- 6 Year	HC++
- 7 Year	HC++
- 8 Year	HC++
- 9 Year	HC++
- 10 Year	HC++

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5. SERVICES

5.2 SERVICE DESCRIPTIONS 5.2.13 DS1 SERVICE (Cont'd)

(T)

G. Rate Terms and Conditions

This section contains specific terms and conditions governing the rates and charges for DS1 Service. The monthly rates and nonrecurring charges are described as follows.

1. Monthly Rates

Monthly rates are flat rates that apply each month or fraction thereof that service is provided. These rates apply on a monthly basis. For billing purposes, each month is considered to have 30 days.

2. Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for DS1 Service are: Channel Termination Initial and Subsequent, Transport Mileage, installation of Optional Features and Functions, and Service Rearrangements. Special Construction Charges as defined in Private Line Transport Service Catalog may also apply. Customers who order service under a Custom Arrangement, as defined in B.4., preceding, may incur Special Construction Charges.

a. Channel Termination - Initial and Subsequent

An Initial or Subsequent nonrecurring charge applies for the installation of each Channel Termination and includes its predefined technical specifications and the facilities from the customer designated premises to the Serving Wire Center.

The Initial nonrecurring charge applies for work to be performed on one Channel Termination, at a customer designated premises. The initial nonrecurring charge applies for new installation of a Channel Termination or for work to be performed on an existing Channel Termination.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DSI SERVICE

G.2.a. (Cont'd)

(T)

The Subsequent nonrecurring charge applies per Channel Termination, at one customer designated premises, when;

- At the same time as the initial Channel Termination is requested, a customer orders additional Channel Termination(s), due the same date, for the same type of service and exact NC/NCI combinations, at the same location.
- At the same time as a request for additional work on an existing Channel Termination, a customer requests the same additional work to be performed on identical existing Channel Termination(s), due the same date, for the same type of service and exact NC/NCI combinations, at the same location.

b. Transport Mileage

A nonrecurring charge applies for the installation of Transport Mileage which provides the transmission facilities between wire centers. This charge applies only when Transport Mileage is installed without a Channel Termination.

c. Installation of Optional Features and Functions

Nonrecurring charges apply for the installation of some of the optional features and functions available with DSI Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service, unless otherwise specified.

d. Service Rearrangements

Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum billing period requirements or a change in the physical location of the Channel Termination at a customer designated premises. The charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves actual physical change to the service. Changes which result in the establishment of new minimum billing period obligations are treated as disconnects and new connects. Changes in the physical location of the Channel Termination are treated as moves and are described in e., following.

- If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

G.2.d. (Cont'd)

(T)

- If the change involves reterminating an existing DS1 Channel Termination onto a spare channel of a higher capacity service, the Rollover nonrecurring charge, as specified in Private Line Transport Service Catalog, will apply.
- If the change involves changing Frame Format or Line Code, (e.g., AMI to B8ZS line code, SuperFrame to ANSI Extended SuperFrame, or any frame format to Free-Frame, or vice versa), or if the customer wishes to add Clear Channel Capability to an existing DS1 Service, a Service Rearrangement nonrecurring charge will apply.

NONRECURRING[1] CHARGE

Service Rearrangement, per
Channel Termination

\$140.00

- For all other changes, including the addition of optional features without separate nonrecurring charges (except for Clear Channel Capability), a charge equal to a Channel Termination nonrecurring charge will apply. Only one such charge will apply per service, per change.

e. Moves

A move involves a change in the physical location of one of the following:

- The Point of Termination at the customer's designated premises.
- The customer's premises.

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(1) Moves within the Same Building or Between Buildings on the Same Premises

When the move is to a new location within the same premises or between buildings on the same premises, the move is the responsibility of the customer. There will be no change in the minimum billing period requirements.

[1] Pursuant to Decision No. 73354, the rates, terms and conditions associated with Nonrecurring Charges (NRCs) are deregulated. NRC Terms and Conditions can now be found in the Private Line Transport Services Catalog.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

G.2.e. (Cont'd)

(T)

(2) Moves to a Different Building

A customer who has existing service may choose to move either a portion of or the entire existing service without incurring discontinuance charges provided the following conditions are met:

- Both the existing and the new services are provided solely by the Company,
- The customer's request for both the disconnect order for the existing service and the new connect order for the new service are received at the same time,
- The customer's request for the disconnect order for the existing service must reference the new connect order,
- The new service installation must be completed within thirty calendar days of the disconnection of the old service, unless the installation delay is caused by the Company,
- If the customer's service is under a Fixed-Period Rate Plan, an amendment to the existing agreement must be completed. The original expiration date of the agreement is not affected, unless the customer wishes to extend the term of the agreement.
- The monthly charges for the new service will be those charges in effect at the time the new DS1 Service is installed. All nonrecurring charges apply for the new service.

Should changes to either the disconnect order or the new connect order exclude one or more of the conditions above, applicable discontinuance and/or cancellation charges will be assessed, as specified in 2.4.7, preceding.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

G. Rate Terms and Conditions (Cont'd)

(T)

3. Minimum Billing Period and Fractional Charges

- a. Charges for service offered under this document are for a minimum billing period of one month or the length of time specified in a Fixed-Period Rate Plan or a Custom Arrangement.
- b. When the minimum billing period has been met, charges for a fraction of a month will be the monthly charge, prorated for the actual number of days service is furnished. For this purpose every month is considered to have 30 days.
- c. Fractions of a cent are carried throughout the computation of the charge. When the computed charge includes a fraction of a cent;
 - One-half cent or more is treated as one cent;
 - Less than one-half cent is disregarded
- d. The charges for service installed or changes in service which involve a change in charges will become effective on the day the service is installed or changed.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

G. Rate Terms and Conditions (Cont'd)

(T)

4. Mileage Measurement

The mileage to be used to determine the monthly charge for the Transport Mileage is calculated using the airline distance between Serving Wire Centers. The Serving Wire Center associated with a customer designated premises is the Serving Wire Center from which the customer designated premises would normally obtain dial tone.

Transport Mileage is shown in terms of mileage bands. To determine the charge to be billed, first compute the mileage using the V & H coordinates method, as set forth in the National Exchange Carrier Association Tariff F.C.C. No. 4, then find the band into which the computed mileage falls and apply the charges shown for that band. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage band and applying the charges.

5. Fixed-Period Rate Plans

- a. A customer may subscribe to a one year through a ten year Fixed-Period Rate Plan. The minimum billing period for the rate plan is the same as the length of the rate plan selected by the customer.
- b. For customers that subscribe to a Fixed-Period Rate Plan, the monthly rates for the entire fixed period will be protected from Company-initiated increases, at the rates in effect for the fixed period on the service date.
- c. If an Optional Feature is added to a circuit that is under an existing Fixed-Period Rate Plan, the feature is rated based on the length of the original Fixed-Period Rate Plan.
- d. Services charged for under month-to-month billing may be upgraded to a Fixed-Period Rate Plan at any time the customer chooses without incurring nonrecurring or discontinuance charges.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

G.5. (Cont'd)

(T)

- e. A customer may renegotiate from an existing rate plan to a new rate plan at any time, with the condition that the new rate plan period must equal or exceed the number of months remaining in the existing rate plan.
- f. Customers with service under a Fixed-Period Rate Plan that is within 6 months of expiration may extend their Fixed-Period Rate Plan rates for a period of 12 months, by notifying the Company in writing of their intent to do so. The 12 month extension will begin upon expiration of the existing Fixed-Period Rate Plan. Extension of an existing Fixed-Period Rate Plan is available only for the original customer of record of the service.

At the end of the Fixed-Period Rate Plan or of the extension (whichever is applicable), the customer must choose to:

- Renew the service under a new Fixed-Period Rate Plan,
- Continue service under the month-to-month option, or
- Discontinue the service.

If the customer renews the service, the monthly rates for a new Fixed-Period Rate Plan will be the rates in effect, in this Tariff, on the renewal date. Should the customer not make a choice by the end of the existing Fixed-Period Rate Plan or extension period, the rates will automatically revert to the month-to-month option.

- g. Discontinuance of Service
 - (1) If the customer terminates service, in whole or in part, at any time during the term of a Fixed-Period Rate Plan, a termination charge may apply as specified in 2.4.7, preceding

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

G.5.g. (Cont'd)

(T)

- (2) Discontinuance charges do not apply to Fixed-Period Rate Plan services purchased by local, State or Federal government entities (or to customers that have purchased services solely for resale to local, State or Federal government entities) when they are discontinued prior to the completion of the Fixed-Period Rate Plan only when all of the following conditions are met:
- The service(s) purchased by the local, State or Federal government entity or customers that have purchased services for resale to local, State or Federal government entities are utilized solely for provision of services for that local, State or Federal government entity,
 - Funding for the service ordered by the authorized local, State or Federal government entity is included in the budget request for each fiscal period appropriation sufficient to cover the authorized local, State or Federal government entity's obligations under the Fixed-Period Rate Plan for that fiscal period,
 - Non-appropriation may not be used as a means of terminating the service to acquire a functionally similar product or service,
 - The local, State or Federal government entity ordered the Fixed-Period Rate Plan service under the good faith belief that moneys in amounts sufficient to discharge its obligations could and would lawfully be appropriated and be made available for this purpose and,
 - The local, State or Federal government entity or the customer that ordered the service on their behalf must provide the Company notarized documents agreed upon by both the Company and the customer showing that the entity is allotted insufficient funds for the remainder of then current fiscal period (or for a succeeding fiscal period) by appropriation, appropriation limitation or grant to continue payments under the Fixed-Period Rate Plan and has no other funding source lawfully available to it for such purpose. The service may be terminated by giving the Company not less than thirty (30) days written notice. Should the customer receive funding for the cancelled service prior to physical disconnect of service, the customer may cancel the disconnect order. Upon termination, the local, State or Federal government entity or the customer that ordered the service on their behalf shall pay all applicable monthly and nonrecurring charges incurred through the date of termination and through the end of the then current fiscal period to the extent of lawfully available funds.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

G. Rate Terms and Conditions (Cont'd)

(T)

6. Service Conversion

- a. An existing service that is provided under a Fixed-Period Rate Plan, may be converted to another service without incurring a discontinuance charge, provided all the following conditions are met:
 - Both the existing and the new higher capacity service(s) are provided solely by the Company,
 - The customer's request for the disconnect of the existing service and the new connect of the new service are received at the same time,
 - The customer's request for the disconnect of the existing service must reference the requested new connect order,
 - The new service(s) installation must be completed within thirty calendar days of the disconnection of the old service(s), unless the installation delay is caused by the Company;
 - The total value of the new service agreement(s), excluding any special construction charges and any other nonrecurring charges, is equal to or greater than 115% of the remaining value of the existing agreement(s);
 - A new minimum service period goes into effect when the new service agreement term begins;
 - The customer agrees to pay any previously billed, but unpaid recurring, and any outstanding nonrecurring charges. These charges cannot be included as part of the new service agreement;
 - All applicable nonrecurring charges will be assessed for the new contracted service(s).
- b. Should the customer choose to upgrade either a portion of or the entire service under a Fixed-Period Rate Plan, and move the service to new customer locations, discontinuance charges will not apply, provided all the conditions are met as set forth in G.2.d.(2), preceding.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.13 DS1 SERVICE

G. Rate Terms and Conditions (Cont'd)

7. Cancellation of an Order for Service

Cancellation of an order for service will be as specified in Private Line Transport Service Catalog.

8. Expedites

If a customer desires that service be provided on an earlier date than that which has been established for the order, the customer may request that service be provided on an expedited basis. If the Company agrees to provide the service on an expedited basis, an Expedited Order Charge will apply.

Expedite of an order for service will be as specified in Private Line Transport Service Catalog.

(T)

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5. SERVICES

5.2 SERVICE DESCRIPTIONS (Cont'd)

5.2.14 DS3 SERVICE

(T)

A. Description

DS3 Service provides a high capacity channel for the transmission of 44.736 Mbit/s isochronous serial data having a line code of bipolar three zero substitution (B3ZS). DS3 Service is provided between customer designated premises, between a customer designated premises and a Company Hub or between Company Hubs. DS3 Service is available utilizing an Electrical Interface. The interface will have the characteristics of its respective signal at the Point of Termination as described in the Technical Publication 77324.

(T)

B. Terms and Conditions

The terms and conditions specified in the DS3 Service Agreement, apply, in addition to the terms and conditions set forth here and in Section 2 of this Tariff.

(T)

1. Availability

- DS3 is available only on a two-point basis, 24 hours per day, 7 days a week.
- DS3 Service can only be provided from wire centers equipped for digital transmission and is subject to the technical limitations of the CO equipment used by the Company.
- Where suitable facilities are unavailable for provision of the service, special construction of the facilities may be necessary and will be charged for as specified in Private Line Transport Service Catalog.
- A customer may request the facilities used to provide DS3 Service be specially routed. The regulations and charges for Facilities Protection-Special Facilities Routing (i.e., Avoidance and Diversity) are as set forth in Private Line Transport Service Catalog.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.14 DS3 SERVICE

B. Terms and Conditions (Cont'd)

(T)

2. Payment Options

DS3 Service is offered on a month-to-month basis, and on one through ten year fixed periods as specified under DS1 Service. For Electrical Capacity Channel Terminations larger than one DS3, the Capacity Channel Termination must be ordered before an associated Per DS3 Channel Termination can be ordered. In addition, the Capacity Channel Termination cannot be disconnected until all of the Per DS3 Channel Terminations are disconnected.

3. Electrical Interface Capacity Channel Terminations

Electrical Interface Capacity Channel Terminations will be provisioned utilizing Company provided equipment. Electrical Interface has eight different sizes of Capacity Channel Termination available. The capacities are capable of deriving the following number of DS3 signals, as described in PUB 77324.

**ELECTRICAL INTERFACE
DS3 CAPACITY CHANNEL
TERMINATION**

1	9
2	12
3	24
6	36

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.14 DS3 SERVICE

B. Terms and Conditions (Cont'd)

4. Custom Offering

If the standard service, as described and offered, does not meet a particular customer requirement, the customer may request and the Company may develop a Custom offering. The service and/or optional features will be developed on an individual case basis. Special Construction Charges as defined in Private Line Transport Service Catalog may apply.

C. End-Link or Mid-Link Application

This application is intended for customers requiring DS1 as part of an overall circuit, which connects to an Interexchange Carrier and extends beyond the LATA. A Design Layout Report (DLR) is available to the customer to assist in their overall design. A DLR will be provided as specified in Private Line Transport Service Catalog. 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.

D. End-to-End Application

This application is intended for customers requiring a DS1 service provided 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.

(T)

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.14 DS3 SERVICE (Cont'd)

(T)

E. Rate Categories

There are three basic rate categories which apply to DS3 Service:

- Channel Termination
- Transport Mileage
- Optional Features and Functions

1. Channel Termination

The Channel Termination provides for the communications path between the Demarcation Point at the customer designated premises, and the Serving Wire Center of that premises. One Channel Termination charge applies per DS3 terminated at the Demarcation Point. For Capacity Channel Terminations larger than one DS3, the Capacity Channel Termination must be ordered before an associated per DS3 Channel Termination can be ordered. These charges will apply even if the customer designated premises and the Serving Wire Center are collocated in the same building. The Capacity Channel Termination can not be disconnected until all of the per DS3 Channel Terminations are disconnected.

2. Transport Mileage

The Transport Mileage provides for the transmission facilities between the Serving Wire Centers associated with two customer designated locations, between a Serving Wire Center associated with a customer location and a Company Hub or between Company Hubs. Transport Mileage is portrayed in mileage bands. There are two elements that apply for each band i.e., a fixed rate and a per mile rate. Transport Mileage is measured by airline miles between Serving Wire Centers via the V and H Coordinates Method, as set forth in the National Exchange Carrier Association Tariff F.C.C. No. 4.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.14 DS3 SERVICE

E.3. (Cont'd)

(T)

c. Self-Healing Alternate Route Protection (SHARP)

SHARP provides added reliability to DS3 Service transported over fiber facilities. This feature provides a separate facility path to avoid any single point of failure for the protection system between the Serving Wire Center and the Company Demarcation Point, located in the same building as the customer designated premises, when the customer or building owner provides the structure for diverse entrance facilities into the building. In those instances where the customer or building owner requests the SHARP Option but does not provide the structure for diverse entrance facilities into the building, this feature provides a separate facility path for the protection system between the first utility vault outside the Serving Wire Center (generally all facilities leave a wire center, to the first utility vault within the same conduit, cable, sheath, etc.) and the last terminal prior to the customer's premises.

The added protection is provided by ensuring the backup electronics and two physically separate facility paths are used in the provisioning of the service. A primary (or working) service path is established between the Serving Wire Center and the customer designated premises. A secondary (or protect path) is provisioned between the customer designated premises and the Serving Wire Center via a Company designated Alternate Wire Center. Should the working path or electronics fail, or the service performance become impaired (i.e., the bit error rate degenerates to less than or equal to 10 to the minus 6) the DS3 Service will automatically switch to the service protect path in order to maintain a near continuous flow of information between locations.

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COMPETITIVE Arizona
PRIVATE LINE TRANSPORT
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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.14 DS3 SERVICE

E.3.c. (Cont'd)

(T)

Due to constraints of the local network architecture as determined by the Company, there may be occasions where the service will be provisioned without the use of an Alternate Wire Center.

The offering of SHARP contemplates the use of existing facilities. There may be occasions where the SHARP option is not available due to facilities limitations, or where it may be necessary to construct such facilities, either as normal or Special Construction. If Special Construction is involved using a route or type of facility other than that which the Company would normally use, an additional charge to the recurring monthly rates for service, is applicable. The charge is equal to the difference between the charges of the specially constructed facilities and the recurring cost of the facilities the Company would have normally used. The additional charges will be designed to recover the additional costs over the requested service period of the Special Facilities Routing in order to allow all rates and charges to expire consecutively.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.14 DS3 SERVICE

E.3.c. (Cont'd)

(T)

Rates applicable to SHARP are in addition to the DS3 Channel Termination(s) and Transport Mileage, if applicable, on the primary portion of the circuit.

The Transport Mileage, if applicable, applies in addition to the SHARP rate elements, and is calculated on the airline distance between Alternate Wire Center(s) utilized to provide the alternate route protection.

Technical Specifications for SHARP are delineated in PUB 77340.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS
5.2.14 DS3 SERVICE (Cont'd)

(T)

F. Service Information

SERVICE	NETWORK CHANNEL CODE
1. End-Link or Mid-Link	
44.736 Mbit/s	
- Month-to-Month	HH++,HF++
- 1 Year	HH++,HF++
- 2 Year	HH++,HF++
- 3 Year	HH++,HF++
- 4 Year	HH++,HF++
- 5 Year	HH++,HF++
- 6 Year	HH++,HF++
- 7 Year	HH++,HF++
- 8 Year	HH++,HF++
- 9 Year	HH++,HF++
- 10 Year	HH++,HF++
2. End-to-End	
44.736 Mbit/s	
- Month-to-Month	HH++,HF++
- 1 Year	HH++,HF++
- 2 Year	HH++,HF++
- 3 Year	HH++,HF++
- 4 Year	HH++,HF++
- 5 Year	HH++,HF++
- 6 Year	HH++,HF++
- 7 Year	HH++,HF++
- 8 Year	HH++,HF++
- 9 Year	HH++,HF++
- 10 Year	HH++,HF++

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5. SERVICES

5.2 SERVICE DESCRIPTIONS 5.2.14 DS3 SERVICE (Cont'd)

(T)

G. Rate Terms and Conditions

This section contains specific terms and conditions governing the rates and charges for DS3 Service. The monthly rates and nonrecurring charges described as follows.

1. Monthly Rates

Monthly rates are flat rates that apply each month or fraction thereof that service is provided. These rates apply on a monthly basis. For billing purposes, each month is considered to have 30 days.

2. Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for DS3 Service are: Channel Termination, Installation of Optional Features and Functions, and Service Rearrangements. Special construction charges as defined in Private Line Transport Service Catalog, may also apply. Customers who order service under a Custom Arrangement, as defined in B.4., preceding, may incur Special Construction Charges.

a. Channel Termination

The nonrecurring charge applies for the installation of each Channel Termination and includes its predefined technical specifications and the facilities from the customer designated premises to the Serving Wire Center.

The nonrecurring charge applies for work to be performed on one Channel Termination, at a customer designated premises. The nonrecurring charge applies for new installation of a Channel Termination or for work to be performed on an existing Channel Termination.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.14 DS3 SERVICE

G.2. (Cont'd)

(T)

b. Installation of Optional Features and Functions

Nonrecurring charges apply for the installation of some of the optional features and functions available with DS3 Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service, unless otherwise specified.

c. Service Rearrangements

Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum billing period requirements or a change in the physical location of the Channel Termination at a customer designated premises. The charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves actual physical change to the service. Changes which result in the establishment of new minimum billing period obligations are treated as disconnects and new connects. Changes in the physical location of the Channel Termination are treated as moves and are described in d., following.

- If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.
- If the change involves reterminating an existing DS3 Channel Termination onto a spare channel of a higher capacity service, the Channel Termination nonrecurring charge will apply.
- For all other changes, including the addition of optional features without separate nonrecurring charges, a charge equal to a Channel Termination nonrecurring charge will apply. Only one such charge will apply per service, per change.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.14 DS3 SERVICE

G.2. (Cont'd)

(T)

d. Moves

A move involves a change in the physical location of one of the following:

- The Point of Termination at the customer's designated premises
- The customer's premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(1) Moves Within the Same Building or Between Buildings on the Same Premises

When the move is to a new location within the same premises or between buildings on the same premises, the move is the responsibility of the customer. There will be no change in the minimum billing period requirements.

(2) Moves to a Different Building

A customer who has existing DS3 Service may choose to move either a portion of or the entire existing service without incurring discontinuance charges provided the following conditions are met:

- Both the existing and the new services are provided solely by the Company,
- The customer's request for both the disconnect order for the existing service and the new connect order for the new service are received at the same time.
- The customer's request for the disconnect order for the existing service must reference the new connect order,

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.14 DS3 SERVICE

G.2.d.(2) (Cont'd)

(T)

- The new service(s) installation must be completed within thirty calendar days of the disconnection of the old service(s), unless the installation delay is caused by the Company;
- If the customer's service is under a Fixed-Period Rate Plan, an amendment to the existing agreement must be completed. The original expiration date of the agreement is not affected, unless the customer wishes to extend the term of the agreement.

The monthly charges for the new service will be those charges in effect at the time the new service is installed. All nonrecurring charges apply for the new service. Should changes to either the disconnect order or the new connect order exclude one or more of the conditions above, applicable discontinuance and/or cancellation charges will be assessed, as specified in 2.4.7, preceding.

3. Minimum Billing Period and Fractional Charges

The application of this condition to DS3 is the same as described in 5.2.13.G. under DS1 Service.

4. Mileage Measurement

Mileage measurement will be as specified in 5.2.13.G.4. for DS1 Service.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.14 DS3 SERVICE

G. Rate Terms and Conditions (Cont'd)

(T)

5. Fixed-Period Rate Plans

A customer must initially subscribe to a one through a ten year Fixed-Period Rate Plan. A month-to-month option is available only after the customer completes the initial Fixed-Period Rate Plan. The minimum Fixed-Period Rate Plan is one year.

All other terms and conditions for Fixed-Period Rate Plans for DS3 Service are the same as those specified in 5.2.13.G.5. for DS1 Service.

6. Service Conversion

Service Conversion for DS3 Service is offered under the same terms and conditions as those specified in 5.2.13.G.6. for DS1 Service.

7. Cancellation of an Order for Service

Cancellation of an Order for Service will be as specified in Private Line Transport Service Catalog.

8. Expedites

Expedite of an order for service will be as specified in Private Line Transport Service Catalog.

9. Service Guarantee-Provisioning for DS3 Service is offered in accordance with the provisions specified in Private Line Transport Service Catalog.

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.18 GEOMAX SERVICE

D.7. Ports (Cont'd)

- OC192 Port, An Optical Carrier Level 192 of 9.953 Gbps
 - Protected
 - Unprotected

- Fast Ethernet Port, 125 Mbps
 - Protected
 - Unprotected

- ISC-3 Port, An InterSystem Coupling Facility or A Coupling Facility link – An IBM 2.215 Gbps signal that provides data caching, locking and queuing services between a Coupling Facility and a CPU.
 - Protected
 - Unprotected

- FICON Port, Fibre Connection (FICON™) channel – An IBM version of the industry standard Fibre Channel operating at either 1.062 Gbps or 2.125 Gbps signal which provides for connectivity similar to ESCON™ while enabling full duplex transfer and multiple concurrent Input/Output (I/O) operations on a single channel
 - Protected
 - Unprotected

- Gigabit Ethernet Port, 1.25 Mbps
 - Protected
 - Unprotected

- WAN PHY Ethernet Port, 10 Gbps
 - Protected
 - Unprotected

- LAN PHY Ethernet Port, 10 Gbps
 - Protected
 - Unprotected

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.18 GEOMAX SERVICE

D.7. Ports (Cont'd)

- Fibre Channel Port, A set of ANSI standard supporting the following speeds:
1.062 Gbps, 2.125 Gbps, 4 Gbps, 10 Gbps
 - Protected
 - Unprotected
- Optical Transport Unit 1 (OTU1) Port;
A signal with a line rate of 2.666 Gbps
 - Protected
 - Unprotected
 - Unprotected Dual
- Optical Transport Unit 2 (OTU2) Port; A signal with a line rate of 10.709 Gbps capable of transporting an OC-192, 10G WAN PHY
 - Protected
 - Unprotected
 - Unprotected Dual
- Optical Transport Unit 2E (OTU2E) Port; A signal with a line rate of 11.09 Gbps capable of transporting a 10G LAN PHY (10 GigE)
 - Protected
 - Unprotected
 - Unprotected Dual
- Optical Transport Unit 3 (OTU3) Port;
A signal with a line rate of 43.018 Gbps
 - Protected
 - Unprotected
 - Unprotected Dual
- Optical Transport Unit 4 (OTU4) Port;
A signal with a line rate of 111.810 Gbps
 - Protected
 - Unprotected
 - Unprotected Dual

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5. SERVICES

5.2 SERVICE DESCRIPTIONS

5.2.18 GEOMAX SERVICE

D.7. Ports (Cont'd)

- 40 Gigabit Ethernet Port at 41.25 Gbps (N)
 - Protected |
 - Unprotected (N)
 - Unprotected Dual

- 100 Gigabit Ethernet Port at 115.125 Gbps (M)
 - Protected |
 - Unprotected |
 - Unprotected Dual (M)

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COMPETITIVE
PRIVATE LINE TRANSPORT
SERVICES TARIFF NO. 6

Qwest Corporation d/b/a CenturyLink QC
Arizona

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105. OBSOLETE SERVICES

105.2 SERVICE DESCRIPTIONS (Cont'd)

105.2.18 GEOMAX SERVICE

D. Rate Categories

The basic rate categories that apply to *GeoMax* are:

- Additional Shelf (described, below)

1. Additional Shelf

The shelf is equipped with common equipment to support a maximum of 32 ports, depending on customer specific configurations and port requirements.

7. Ports

- OC768 Port, An Optical Carrier Level 768 of 39.813 Gbps
 - Protected
 - Unprotected

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(M) Material moved from Section 5, Page 104.