

**Qwest**  
1801 California St.  
Suite 4700  
Denver, Colorado 80202



January 12, 2009

Patricia Van Gerpen, Executive Director  
Public Utilities Commission  
Capitol Building, 1<sup>st</sup> Floor  
500 East Capitol Avenue  
Pierre, South Dakota 57501-5070

Dear Ms. Van Gerpen:

RE: Docket TC08-138 -- Replacement Pages

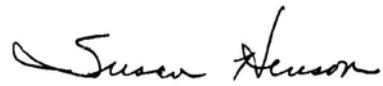
Pursuant to discussion with Commission Staff, Qwest is filing the attached Replacement Pages in Docket TC08-138. Qwest is making this replacement filing to extend the effective date from January 14, 2009 to January 27, 2009.

Qwest Corporation has attached for filing with the Commission the following replacement pages from the Access Service Tariff. Please substitute the pending pages with the attached replacement pages.

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Acknowledgment and date of receipt of this transmittal are requested. A duplicate letter and self-addressed, stamped envelope are attached for this purpose. If you have any questions regarding this filing, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Susan Henson".

Susan Henson  
Regulatory Manager  
Office: (206) 345-4341  
Email: [Susan.Henson@qwest.com](mailto:Susan.Henson@qwest.com)

Attachments

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**SECTION 1**

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**1. APPLICATION AND REFERENCE**

**1.6 EXPLANATION OF ABBREVIATIONS (Cont'd)**

dc	- Direct current
DD	- Service Date
DLRD	- Design Layout Report Date
DTMF	- Dual Tone Multifrequency
DTT	- Direct-Trunked Transport
EDD	- Envelope Delay Distortion
EF	- Entrance Facility
EI	- Expanded Interconnection
EICT	- Expanded Interconnection Channel Termination
ELEPL	- Equal Level Echo Path Loss
EML	- Expected Measured Loss
EO	- End Office
EPL	- Echo Path Loss
ERL	- Echo Return Loss
ESS	- Electronic Switching System
ESSX	- Electronic Switching System Exchange
EU	- End User
f	- Frequency
F.C.C.	- Federal Communications Commission
FGA	- Feature Group A
FGB	- Feature Group B
FGC	- Feature Group C
FGD	- Feature Group D
FID	- Field Identifier
FSPOI	- Facility Signaling Point of Interconnection
FX	- Foreign Exchange
HC	- High Capacity
Hz	- Hertz
IAM	- Initial Address Message
IC	- Interexchange Carrier
ICB	- Individual Case Basis
ICL	- Inserted Connection Loss
ISUP	- Integrated Services Digital Network User Part
kbps	- Kilobits per second
kHz	- Kilohertz
LATA	- Local Access and Transport Area
LIDB	- Line Information Data Base
LOF	- Letter on File
LS	- Local Switching
Ma	- Milliampere
Mbps	- Megabits per second
MF	- Multifrequency
MHz	- Megahertz

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**2. GENERAL REGULATIONS**

**2.6 DEFINITIONS (Cont'd)**

Facility Signaling Point of Interconnection (FSPOI)

The term Facility Signaling Point of Interconnection (FSPOI) denotes a Company designated ordering point within a Company LATA to which customers may establish SS7 Signaling connections.

Field Identifier (FID)

The term "Field Identifier" denotes two to four characters that are used on service orders to convey specific instructions. Field Identifiers may or may not have associated data. Selected Field Identifiers are used in Company billing systems to generate nonrecurring charges.

First Come, First Served

The term "First-Come, First-Served" denotes a procedure followed when the first Access Service Request (ASR) received will be the first service order processed.

First Point of Switching

The term "First Point of Switching" denotes the first Company location at which switching occurs on the terminating path of a call proceeding from the customer's premises to the terminating end office and, at the same time, the last Company location at which switching occurs on the originating path of a call proceeding from the originating end office to the customer's premises.

Flexible Automatic Number Identification

The term "Flexible Automatic Number Identification" denotes the two digit ANIii pair assignments which are installed in a switch via a flexible software program controlled by the Company.

Frequency Shift

The term "Frequency Shift" denotes the change in the frequency of a tone as it is transmitted over a channel.

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**20. COMMON CHANNEL SIGNALING NETWORK (CCSN)**

**20.1 GENERAL DESCRIPTION**

The Company's Common Channel Signaling Network (CCSN) is a digital data network carrying signaling information that interfaces with the Company's voice/data network for services using the American National Standards Institute (ANSI) CCS7 signaling protocol.

A. Common Channel Signaling Access Capability (CCSAC)

Common Channel Signaling Access Capability (CCSAC) allows a customer to connect with the Company's SS7 network. CCSAC is used in conjunction with other SS7 based features and services. CCSAC provides the means for transmitting SS7 out of band signaling information via Switched Access CCS Links between the customer's Signaling Point of Interface (SPOI) and the Company's Signal Transfer Point (STP) or Facility Signaling Point of Interconnection (FSPOI). The STP provides translations and routing functions for SS7 signaling messages received from the Company's network signaling points and the SS7 networks of other entities. There are two types of signaling messages. ISDN User Part (ISUP) messages are used for call set-up (establishing and closing transmission paths for voice and data calls over the public switched network). Transaction Capabilities Application Part (TCAP) messages are used to carry information between signaling points for call related database services. CCSAC acts as a platform for the following applications.

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The customer's SPOI and the Company's STP or FSPOI wire center must be located within the same LATA.

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1. Call Set-Up

This application provides the customer the capability to send originating and terminating call set-up signaling information, via ISUP messages, between the customer's designated premises, the Company's STP and other entities in association with message telecommunications service. Call Set-Up may be associated with calls that utilize the Company's switched access network or may be associated with calls that do not utilize the Company's switched access network. If the message trunks are provided by the Company, the customer must order the associated FGD trunks with SS7 Out of Band Signaling option as set forth in Section 6, preceding. Call Set-Up associated with calls that do not utilize the Company's switched access network is referred to as transient call set-up and the customer must have message trunks with SS7 capabilities. CCSAC Service as set forth in this section is required to provide both capabilities.

**20. COMMON CHANNEL SIGNALING NETWORK (CCSN)**

**20.2 SERVICE DESCRIPTION**

**20.2.1 COMMON CHANNEL SIGNALING ACCESS CAPABILITY (CCSAC) (Cont'd)**

A. CCS Link

CCSAC is provided by a CCS Link. The CCS Link provides digital bidirectional transmission and operates at a DS0-A level (i.e., 56 kbps of CCS7 signaling data and 8 kbps of control/supervisory data). Each DS0-A channel (link) occupies a single DS0 (i.e., 64 kbps) channel of a 24 channel DS1 digital transmission system. The DS0-A channel (link) is multiplexed into a DS1 format for hand off at the customer's SPOI. One STP Port is required for each 56 kbps signaling link utilized for CCSAC at the Company STP. The customer's SPOI and the Company's STP or FSPOI, wire center must be located within the same LATA. Customer connections at an FSPOI will only provide signaling access for the LATA served by the FSPOI. Customer connections for multiple LATAs, where available, must be made at the Company STP. The STP Port is the POT to the signal switching capability of the STP and is dedicated to the customer. The CCS Link is transported via an Entrance Facility and a Direct Link Transport (DLT) facility as described in A. and B., following, and is utilized exclusively for connecting the customer's CCS network and the Company's CCSN for the transmission of network control signaling data only.

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B. Entrance Facility

The Entrance Facility provides the connection from the customer's SPOI to the serving wire center (SWC) of the customer's SPOI on a dedicated DS1 facility ordered as set forth in this section and is utilized exclusively for the transmission of network control signaling data only. The customer may utilize an existing DS1 Entrance Facility previously ordered from this section for additional CCS Links or order a new DS1 Entrance Facility from this section. The customer may also choose to utilize a portion (i.e., DS1) of an existing DS3 facility under the regulations of Shared Use. The DS3 facility can only be ordered from Section 6, preceding, or Section 7, of the Interstate Access Service Tariff, F.C.C. No. 1. When the customer chooses to use a portion of an existing DS3 facility, the customer must allocate, at the minimum, one dedicated DS1 for the provision of the signaling links. Rate applications for Shared Use are set forth in 2.7, preceding.

C. Direct Link Transport (DLT)

The DLT provides for the transmission facilities between the SWC of the customer's SPOI and the Company's STP or FSPOI. The customer has the option of ordering a DS1 DLT facility from this section, utilized exclusively for the transmission of network control signaling data only, or a single DS0-A channel (i.e., 64 kbps) of a 24 channel DS1 facility. The customer may utilize an existing DS1 DLT facility previously ordered from this section for additional CCS Links or order a new DS1 DLT or a DS0 DLT facility.

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**20. COMMON CHANNEL SIGNALING NETWORK (CCSN)**

**20.2 SERVICE DESCRIPTION**

**20.2.1 COMMON CHANNEL SIGNALING ACCESS CAPABILITY (CCSAC)**

C. Direct Link Transport (DLT) (Cont'd)

Company hubbing arrangements can be utilized for CCSAC. If the customer has an existing DS3 facility between the SWC of the customer's premises and a Company Hub, ordered and provisioned as set forth in Section 6, preceding, or Section 7, of the Interstate Access Service Tariff, F.C.C. No. 1, the customer may utilize a portion (i.e., DS1) of the existing DS3 facility for the CCS Link(s) under the provisions of the Shared Use regulations as set forth in 2.7, preceding. In addition, the customer must order the DS1 or DS0 DLT from the Company Hub to the Company STP or FSPOI.

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When the customer orders a DS1 DLT facility from the SWC of the customer's SPOI or a Company Hub to a Company STP or FSPOI, the customer must also order a DS1 to DS0 Multiplexer at the Company STP or FSPOI for termination into the STP Port. When the customer orders a DS0 DLT channel, the customer must also order a DS1 to DS0 Multiplexer at the SWC of the customer's SPOI. Multiplexing rates are set forth in 20.8, following.

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**20. COMMON CHANNEL SIGNALING NETWORK (CCSN)**

**20.3 RATE CATEGORIES**

**20.3.1 CCSAC RATE CATEGORIES AND APPLICATIONS**

CCS Link rates and charges are set forth in 20.8, following. Carrier Common Line rates, as set forth in Section 3, preceding, and Switched Access rates, as set forth in Section 6, preceding, are not applicable.

A. Nonrecurring Charges

Each CCS Link is assessed a nonrecurring charge per link provided on a first and each additional basis, per order. A nonrecurring charge is also assessed for each DS1 Entrance Facility provided.

Any change in CCSAC Service, except a change in jurisdiction, will be treated as a discontinuance of the existing service and an installation of a new service. Minimum period requirements are as set forth in 5.2.5, preceding.

B. Monthly Rates

The Entrance Facility monthly rate is assessed on a per DS1 facility provided when the Entrance Facility is ordered from this section for CCSAC. A nonrecurring charge is assessed for each DS1 Entrance Facility provided. When the customer has Shared Use facilities, the monthly rates are apportioned as set forth in 2.7, preceding.

For each DLT facility provided, DS0 or DS1, a fixed monthly rate, per mile band, and a monthly rate per mile is assessed. When the customer has Shared Use facilities, the monthly rates are apportioned as set forth in 2.7, preceding. Mileage measurement is calculated on a airline mile basis, using the V & H coordinates method, between the SWC of the customer's SPOI and the Company's STP or FSPOI. When DLT facilities of different capacities are connected by a multiplexer at a Company Hub, mileage is measured separately from the SWC of the customer's premises to the Company Hub, where multiplexing occurs, and then measured from the Company Hub to the Company STP or FSPOI.

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An STP Port is provided for each CCS Link and each STP Port is assessed a monthly rate.

EF and DTT multiplexing equipment is assessed a monthly rate per arrangement provided. When the customer has Shared Use facilities, the monthly rates are apportioned as set forth in 2.7, preceding.



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**20. COMMON CHANNEL SIGNALING NETWORK (CCSN)**

**20.5 ORDERING, SERVICE PROVISIONING AND PERFORMANCE REQUIREMENTS**

**20.5.1 ORDERING REQUIREMENTS**

A. CCSAC Ordering Requirements (Cont'd)

In addition the customer must specify the type of DLT facility, DS1 or DS0, to be utilized or provided between the SWC of the customer's SPOI and the Company's STP or FSPOI. (C)

The Company will allow hubbing arrangements in association with CCSAC. If the customer has an existing DS3 facility (ordered and provisioned from Section 6, preceding, or Section 7, of the Interstate Access Service Tariff, F.C.C. No. 1) to a Company Hub, the customer may use a portion of the DS3 facility (i.e., DS1) for the CCS Link(s) from the SWC of the customer's SPOI to the Company Hub and then order the DS1 or DS0 DLT from the Company Hub to the Company's STP or FSPOI. If the customer requests a DS1 DLT, multiplexing equipment must be ordered at the Company's STP or FSPOI. CCSAC orders are subject to the provisions (e.g., access order intervals, modification charges, cancellation charges and minimum periods) specified in Section 5, preceding. When a customer orders CCSAC in association with other services (e.g., FGD with SS7 Out of Band Signaling for call set-up), separate orders shall be issued. (T)  
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B. LIDB Ordering Requirements

When a customer orders LIDB, the customer must specify, per access order, the LIDB Originating Point Code(s), Location Identification Code(s) and projected percent of interstate use that will access the Company's LIDB. LIDB orders are subject to the provisions (e.g., access order intervals, modification charges, cancellation charges and minimum periods) as specified in Section 5, preceding.

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**20. COMMON CHANNEL SIGNALING NETWORK (CCSN)**

**20.5 ORDERING, SERVICE PROVISIONING AND PERFORMANCE REQUIREMENTS  
(Cont'd)**

**20.5.2 SERVICE PROVISIONING**

A. CCSAC Service Provisioning

CCSAC transmission specifications, diversity requirements, testing parameters and design requirements for STP Links (i.e., CCS Signaling Links) are set forth in Technical References GR-905-CORE and 77342. CCSAC network interface specifications between the Company STP location and the customer's STP location supporting Integrated Services Digital Network (ISDN) signaling are described in Technical Reference GR-905-CORE.

CCSAC is provided from either the customer's Signaling Point (SP) which requires a minimum of two STP Links and two STP Ports or from the customer's STP which requires a minimum of four STP Links and four STP Ports. A group of signaling links that connect the same two signaling points is described as a link set. There are a maximum of 16 signaling links located within one link set. The quantity of CCS Links required is based upon diversity requirements. Diversity is provided as mutually agreed upon by the Company and the customer based upon the availability of facilities from the customer's SPOI location to the Company's STP or FSPOI. Customer connections at an FSPOI will only provide two diverse routes to the Company STP. If applicable, Special Construction regulations and charges apply. CCSAC interconnection is available only in suitably equipped Company STP locations.

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**20. COMMON CHANNEL SIGNALING NETWORK (CCSN)**

**20.5 ORDERING, SERVICE PROVISIONING AND PERFORMANCE REQUIREMENTS  
(Cont'd)**

**20.5.3 PERFORMANCE REQUIREMENTS**

A. CCSAC Performance Requirements

The Company supports the performance standards for CCSN as defined in Technical References GR-905-CORE and 77342. The overall end-to-end CCSN network objective from any SP to any other SP is less than ten minutes unavailable access per year based on design and diversity requirements and the performance objective for any single SP, including a Service Control Point (SCP), is less than three minutes unavailable access per year. The combined link set from the SCP to the STP has a performance objective of less than two minutes unavailable access per year.

The Company will administer its CCSN network to ensure acceptable service provision levels. The Company maintains the right to apply protective controls to its CCSN as a result of occurrences such as failure or overload of CCSN facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Company result in the complete loss of CCSAC service by the customer, the customer will be entitled to a credit allowance for Switched Access service interruptions as set forth in 2.4.4, preceding.

When the customer or the Company, pursuant to an order for service, arranges to establish a route to a signaling point, such route will be used by all messages delivered to the Company's signaling network.

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