

Qwest Corporation

WN U-44
ACCESS SERVICE
WASHINGTON

SECTION 6
1st Revised Index Sheet 1
Cancels Original Index Sheet 1

6. SWITCHED ACCESS SERVICE

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6. SWITCHED ACCESS SERVICE

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6. SWITCHED ACCESS SERVICE

6.1 GENERAL

Switched Access Service, which is available to customers for their use in furnishing their services to end users, provides a two-point electrical communications path between a customer's premises and an end user's premises. It provides for the use of terminating, switching, transport facilities, and common subscriber plant of the Company. Switched Access Service provides for the ability to originate calls from an end user's premises to a customer's premises, and to terminate calls from a customer's premises to an end user's premises in the LATA where it is provided. Specific references to material describing the elements of Switched Access Service are provided in 6.1.1 and 6.1.2, following.

Rates and charges for Switched Access Service are set forth in 6.8, following. The application of rates for Switched Access Service is described in 6.7, following. Rates and charges for services other than Switched Access Service (e.g., the Company's or another customer's toll message service) may also be applicable when Switched Access Service is used in conjunction with these other services. Descriptions of such applicability are provided in 6.2.1.A.8.; 6.2.1.B.4.; 6.2.2.A.7.; 6.2.2.B.3.; 6.2.3.A.7.; 6.2.4.A.6.; 6.7.8 and 6.7.10, following. Finally, a credit is applied against Lineside Switched Access Service charges as described in 6.7.9, following.

6.1.1 SWITCHED ACCESS SERVICE ARRANGEMENTS AND MANNER OF PROVISION

Switched Access Services are differentiated by their technical characteristics, e.g., lineside vs. trunkside connection at the Company entry switch, and the manner in which an end user accesses them in originating calling, e.g., with or without an access code.

6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.1 SWITCHED ACCESS SERVICE ARRANGEMENTS AND MANNER OF PROVISION (CONT'D)

Lineside Access (FGA) is furnished on a per-line basis. Trunkside Access (FGB, FGC and FGD) is on a per-trunk basis.

Trunks are differentiated by type and directionality of traffic carried over a Switched Access Service arrangement. Differentiation among traffic types is necessary for the Company to properly design Switched Access Service to meet the traffic carrying capacity requirement of the customer.

There are six major traffic types. These are: Originating, Terminating, Directory Assistance, *SWITCHNET* 56, CCC Originating and CCC Terminating.

- Originating traffic type represents access capacity within a LATA for carrying traffic from the end user to the customer.
- Terminating traffic type represents access capacity within a LATA for carrying traffic from the customer to the end user.
- Directory Assistance traffic type represents access capacity within a LATA for carrying Directory Assistance traffic from the customer to a Directory Assistance location.
- *SWITCHNET* 56 traffic type represents access capacity in a LATA for carrying digital traffic at speeds up to 56 kbit/s between the customer and the end user.
- CCC Originating traffic type represents access capacity within a LATA for carrying circuit switched data and/or circuit switched voice traffic on FGD Service equipped with Clear Channel Capability from the end user to the customer.
- CCC Terminating traffic type represents access capacity within a LATA for carrying circuit switched data and/or circuit switched voice traffic on FGD Service equipped with Clear Channel Capability from the customer to the end user.

6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.1 SWITCHED ACCESS SERVICE ARRANGEMENTS AND MANNER OF PROVISION (CONT'D)

When ordering capacity for Trunkside Switched Access, the customer must, at a minimum, specify such access capacity in terms of Originating and/or Terminating traffic type, *SWITCHNET* 56 traffic type, CCC Originating and/or CCC Terminating traffic type or DA traffic type. Directory Assistance traffic type is used for ordering Directory Assistance Access Service as set forth in Section 9, following. Additionally, when ordering capacity for 800 DB Access Service and/or 900 Access Service, the customer must specify 8XX and/or 900 traffic type.

Because some customers will wish to segregate their originating FGC, FGD, 800 DB Access Service, or 900 Access Service traffic further into separate trunk groups, the Originating traffic type and CCC Originating traffic type are further categorized into Domestic, 8XX, 900 and Operator. Domestic traffic type represents access capacity for carrying only domestic traffic other than 8XX, 900 and Operator traffic; and 8XX, 900 and Operator traffic type represents access capacity for carrying, respectively, only 8XX, 900 or Operator traffic. When such customer wishes to segregate their traffic as described above, the customer must specify Domestic, 8XX, 900 or Operator traffic type.

6. SWITCHED ACCESS SERVICE

6.1 GENERAL (CONT'D)

6.1.2 RATE CATEGORIES

There are two rate categories which apply to Switched Access Service:

- Switched Transport (described in A., following)
- Local Switching (described in B., following)

In addition to the two rate categories, there are rate elements applicable to certain Switched Access Services:

- SWITCHNET 56 Service

Applicable to Feature Group D. The description and application of this charge is set forth in 6.7.1, following.

- 800 DB Access Service Charges

Applicable to 800 DB Access Service provided in conjunction with trunk-side Switched Access Service. The description and application of this charge are set forth in 6.7.1, following.

- 900 Access Service Charges

Applicable to 900 Access Service provided in conjunction with Feature Groups C, D, and 900 Access Service. The description and application of these charges are set forth in 6.7.1, following.

6. SWITCHED ACCESS SERVICE

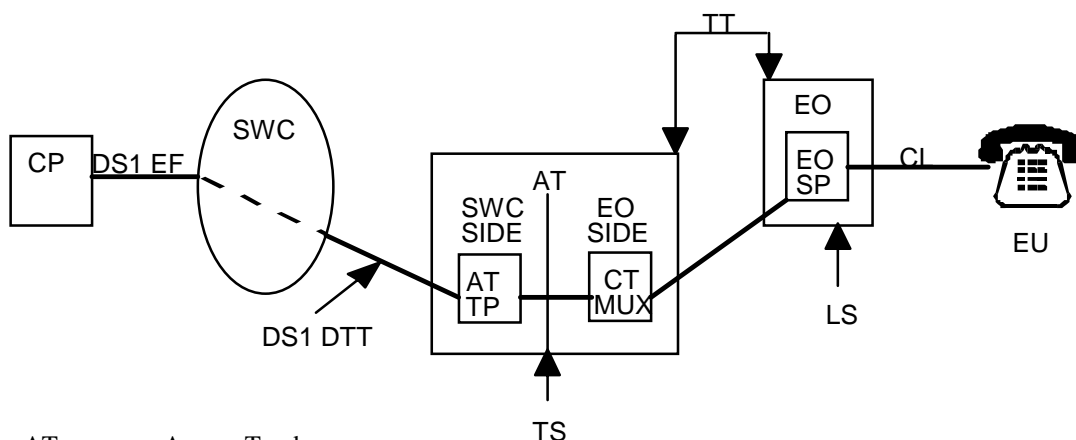
6.1 GENERAL

6.1.2 RATE CATEGORIES (CONT'D)

The following diagrams depict possible serving arrangements and components of Switched Access Service and the manner in which the components are combined to provide a complete access service. The following diagrams are not intended to depict all serving arrangements available.

EXAMPLE 1

Switched Access Service Ordered with Tandem Routing



- AT - Access Tandem
- ATTP - Access Tandem Trunk Port
- CL - Common Line
- CP - Customer's Premises
- CT MUX - Common Transport Multiplexing
- DTT - Direct Trunked Transport
- EF - Entrance Facility
- EO - End Office
- EO SP - End Office Shared Port
- EU - End User
- LS - Local Switching
- SWC - Serving Wire Center
- TS - Tandem Switching
- TT - Tandem Transmission

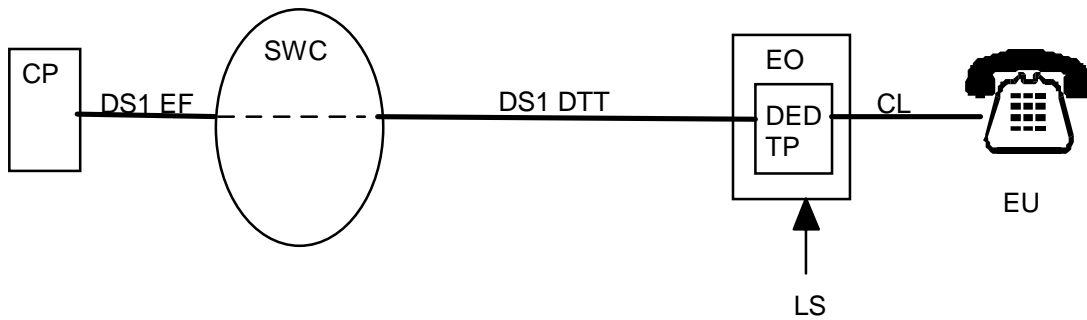
6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES (CONT'D)

EXAMPLE 2

Switched Access Service Ordered
with DS1 EF and DS1 DTT Facility



- CL - Common Line
- CP - Customer's Premises
- DED TP - Dedicated Trunk Port
- DTT - Direct Trunked Transport
- EF - Entrance Facility
- EO - End Office
- EU - End Users
- LS - Local Switching
- SWC - Serving Wire Center

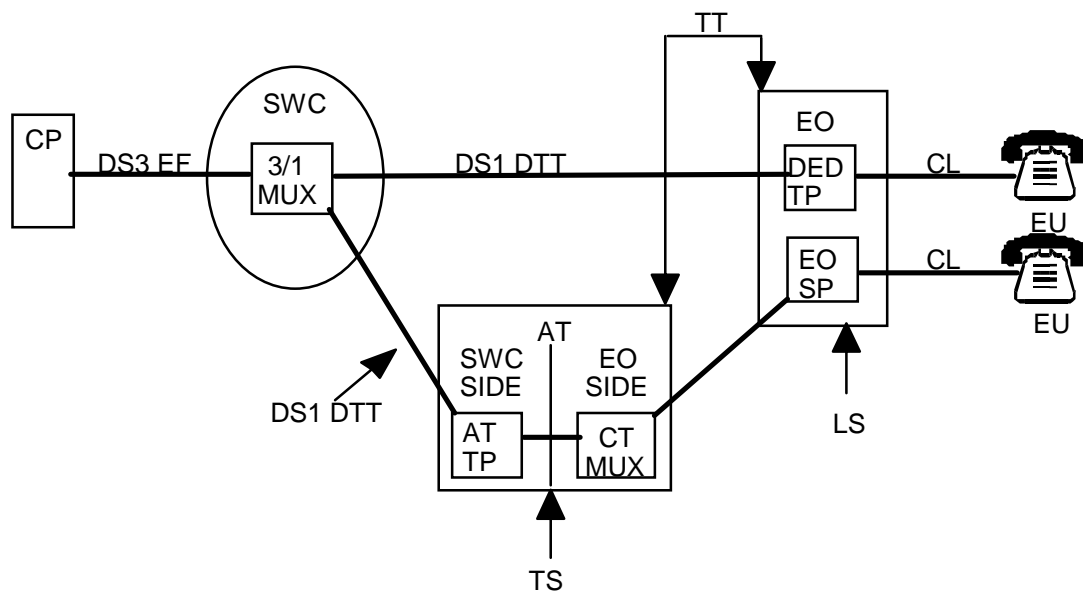
6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES (CONT'D)

EXAMPLE 3

Switched Access Service Ordered
with DS3 EF for DTT and TST



- AT - Access Tandem
- ATTP - Access Tandem Trunk Port
- CL - Common Line
- CP - Customer's Premises
- CT MUX - Common Transport Multiplexing
- DED TP - Dedicated Trunk Port
- DTT - Direct Trunked Transport
- EF - Entrance Facility
- EO - End Office
- EO SP - End Office Shared Port
- EU - End User
- LS - Local Switching
- MUX - EF Multiplexer
- SWC - Serving Wire Center
- TS - Trandem Switching
- TT - Tandem Transmission

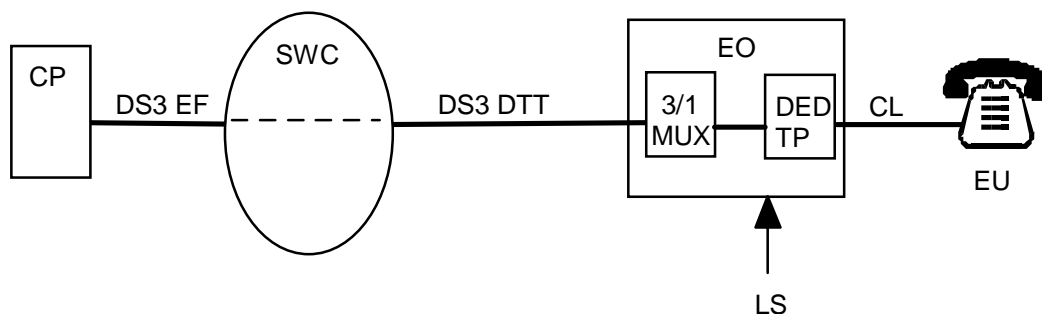
6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES (CONT'D)

EXAMPLE 4

Switched Access Service Ordered
with DS3 EF and DS3 DTT Facility to an End Office



- CL - Common Line
- CP - Customer's Premises
- DED TP - Dedicated Trunk Port
- DTT - Direct Trunked Transport
- EF - Entrance Facility
- EO - End Office
- EU - End Users
- LS - Local Switching
- MUX - DTT Multiplexer
- SWC - Serving Wire Center

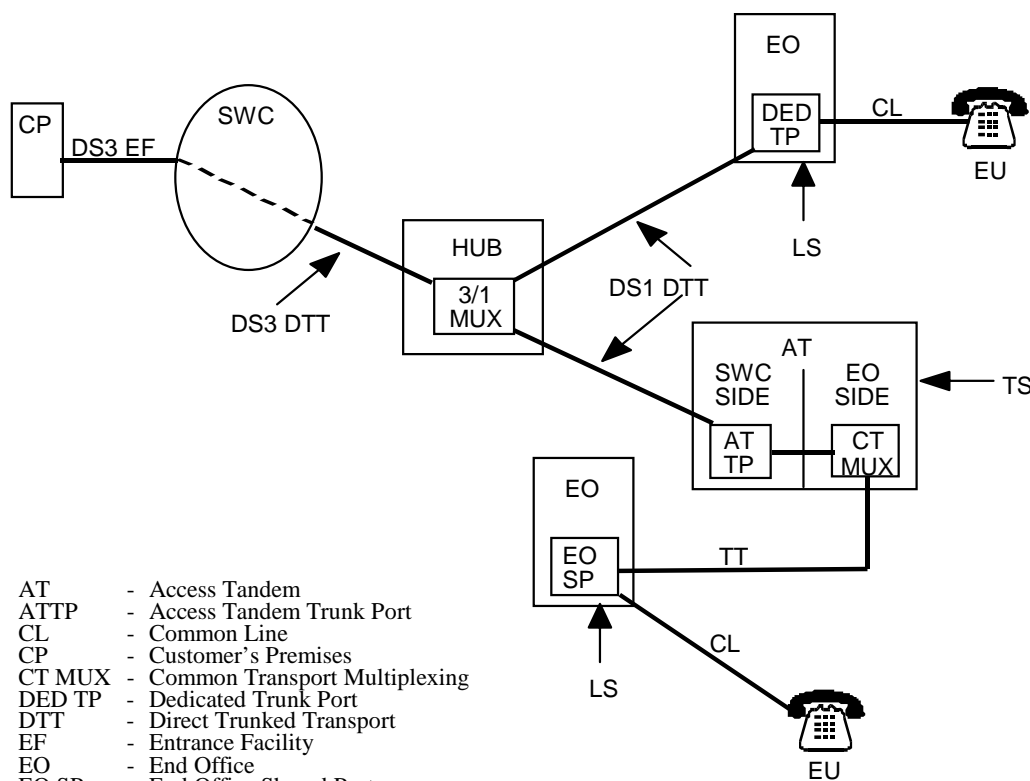
6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES (CONT'D)

EXAMPLE 5

Switched Access Service Ordered to a Company Hub



- AT - Access Tandem
- ATTP - Access Tandem Trunk Port
- CL - Common Line
- CP - Customer's Premises
- CT MUX - Common Transport Multiplexing
- DED TP - Dedicated Trunk Port
- DTT - Direct Trunked Transport
- EF - Entrance Facility
- EO - End Office
- EO SP - End Office Shared Port
- SWC - Serving Wire Center
- EU - End User
- HUB - HUB Location
- LS - Local Switching
- MUX - EF Multiplexer
- SWC - Serving Wire Center
- TS - Trandem Switching
- TT - Tandem Transmission

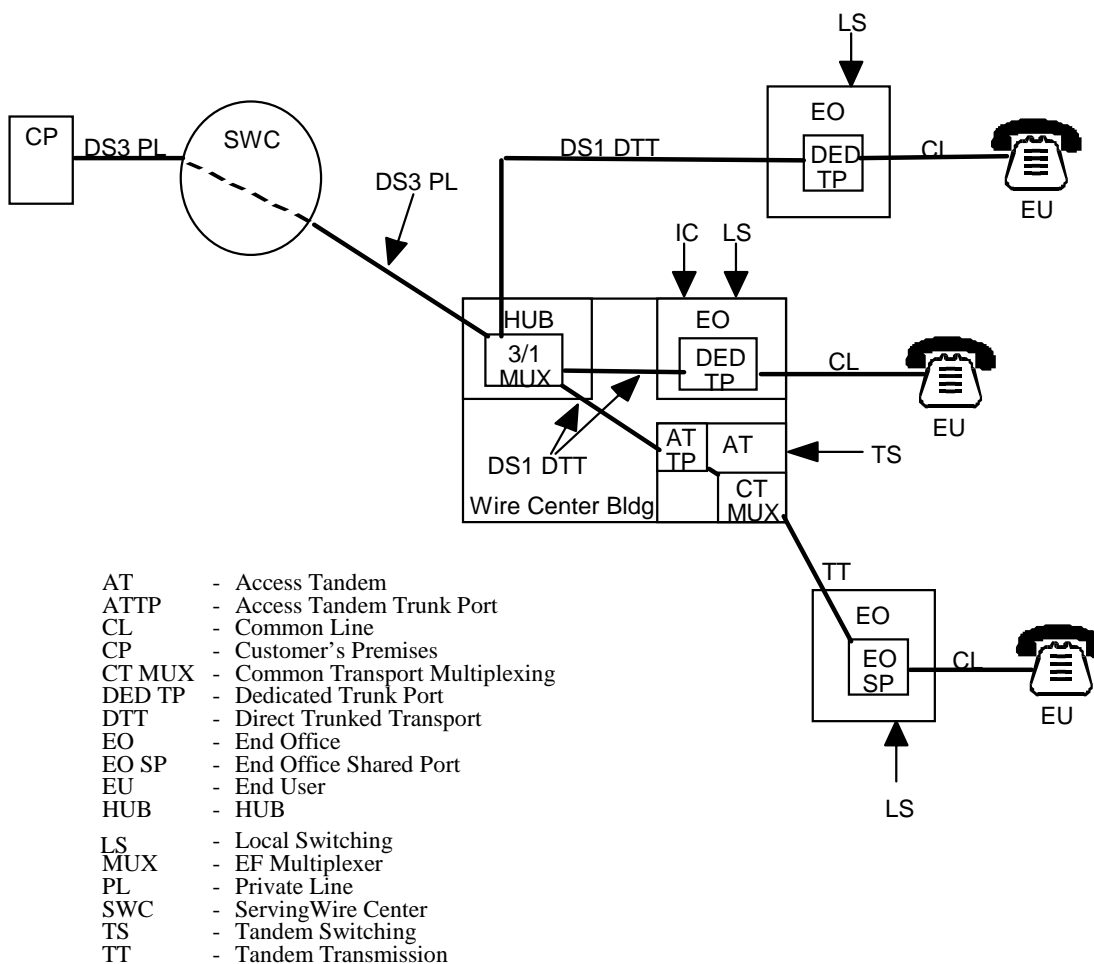
6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES (CONT'D)

EXAMPLE 6

Private Line Service and Switched Access
Ordered to a Company Hub



6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES (CONT'D)

A. Switched Transport

1. General Description

The Switched Transport rate category provides the transmission facilities between the customer's premises and the end office switch(es) where the customer's traffic is switched to originate or terminate its communications.

Switched Transport is a two-way voice-frequency transmission path composed of an Entrance Facility (EF) and a Direct-Trunked Transport (DTT) facility for direct routed traffic. For tandem routed traffic, the Switched Transport is composed of an EF, a DTT to an access tandem and Tandem-Switched Transport (TST) from the access tandem to the subtending end offices. The transmission path permits the transport of calls in the originating direction (from the end user's end office switch to the customer's premises) and in the terminating direction (from the customer's premises to the end office switch), but not simultaneously. The voice-frequency transmission path may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The Company will work cooperatively with the customer in determining (1) the EF, (2) whether the service is to be directly routed or routed through an access tandem switch, (3) the directionality of the service and (4) the hubbing arrangements. Switched Transport optional features are provided as set forth in 4., following.

6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES

A.1. (Cont'd)

Switched Transport is provided at the rates and charges set forth in 6.8, following. The application of these rates with respect to the different types of service is as set forth in 6.7.1, following.

Switched Access is ordered under the access order provisions as set forth in Section 5, preceding. Design and traffic routing of Switched Access Services is described in 6.5.2, following.

Switched Transport is composed of an Entrance Facility (EF) rate category, as described in a., following, a Direct-Trunked Transport (DTT) rate category, as described in b., following and a Tandem-Switched Transport (TST) rate category, as described in c., following.

a. Switched Transport EF Rate Category

An EF provides the communication path between a customer's premises and the Company serving wire center (SWC) of that premises for the sole use of the customer. The EF rate category is composed of a Voice Grade rate, a DS1 rate or a DS3 rate. An EF is provided even if the customer's premises and the SWC are located in the same building. The types of facilities available for Entrance Facilities are described in 2., following.

6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES

A.1. (Cont'd)

b. Switched Transport DTT Rate Category

DTT provides the transmission path on circuits dedicated to the use of a single customer between:

- The customer's SWC and an end office, or;
- The customer's SWC and an access tandem, or;
- The customer's SWC and a Company Hub where multiplexing functions are performed, or;
- A Company Hub and an end office, or;
- A Company Hub and an access tandem.

The DTT rate category is composed of a monthly fixed rate and a monthly per-mile rate based on the facility provided, (i.e., Voice Grade, DS1 or DS3). The fixed rate provides the circuit equipment at the ends of the transmission paths. The per-mile rate provides the transmission facilities, including intermediate transmission circuit equipment, between the end points of the circuit. The DTT rate is the sum of the fixed rate and the per-mile rate. For purposes of determining the per-mile rate, mileage will be measured as airline mileage using the V&H coordinates method. Mileage measurement rules are set forth in 6.7.11, following. The types of facilities available for DTT are described in 2., following.

6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES

A.1. (Cont'd)

c. Switched Transport TST Rate Category

TST provides the transmission facilities between an access tandem and end offices subtending that tandem utilizing tandem switching functions. TST is not available from or to a Company Hub. TST consists of circuits used in common by multiple customers from the access tandem to an end office. For TST, the Company will determine the type of facilities to the end office(s) based on the customer's order for service on a per-trunk basis.

The TST rate category is composed of the rate elements set forth in (1) through (4), following. Rates and charges are set forth in 6.8, following.

(1) Tandem Transmission

Tandem Transmission is composed of a fixed per-MOU rate and per-mile/per-MOU rate. The fixed rate provides for the circuit equipment at the end of the interoffice transmission paths. The per-mile rate provides for the transmission facilities, including intermediate transmission circuit equipment between the end points of the interoffice circuit. For purposes of determining the per-mile rate, mileage will be measured as airline mileage using the V & H coordinates method. Mileage measurement rules are set forth in 6.7.11, following.

(2) Tandem Switching

Tandem Switching is a per-MOU rate assessed for utilizing tandem switching functions when tandem routing is requested for trunkside services. Tandem Switching is not assessed to FGA services.

(3) Access Tandem Trunk Port

An access tandem trunk port (ATTP) is provided for each trunk terminated on the SWC side of the access tandem when the customer has requested tandem routing. The ATTP rate is assessed monthly per Feature Group trunk (excludes FGA).

6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES

A.1.c. (Cont'd)

(4) Common Transport Multiplexing

Common transport multiplexing equipment is utilized in the end office side of the access tandem when common transport is provided between the access tandem and the subtending end offices. This rate is assessed on a per-MOU basis. (Multiplexing equipment associated with a DTT facility ordered to the access tandem is provisioned on the SWC side of the access tandem. Multiplexing rates for EF and DTT facilities are described in 4., following, and if assessed, are in addition to the common transport multiplexing rates.)

2. Switched Transport Facilities

Customers requesting Lineside or Trunkside Switched Access service shall specify the type of Entrance Facility (Voice Grade, DS1 or DS3) between the customer's premises and the SWC. The customer shall also specify if tandem routing or direct routing will be utilized for trunkside services. If tandem routing is desired, the customer must specify the type of DTT facility (Voice Grade, DS1 or DS3) to be utilized from the SWC to the access tandem and the Company will determine the type of facilities (i.e., common transport) to the subtending end offices. Tandem routing is not available for Lineside Switched Access Service. If direct routing is requested, the customer shall specify the type of DTT facility (Voice Grade, DS1 or DS3) to be utilized from the SWC to the end office.

There are three types of facilities, Voice Grade, DS1 or DS3, available to the customer for Entrance Facilities and DTT facilities for Lineside or Trunkside Switched Access Service. Following is a brief description of each type of facility. Each type has its own characteristics and is available with EF and DTT multiplexing options as set forth in 4., following.

a. Voice Grade Facility

Voice Grade facilities are available for Entrance Facilities and for DTT facilities. A Voice Grade facility is an electrical communications path which provides voice-frequency transmission in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Compatible Interface Groups are described in 3., following.

6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES

A.2. (Cont'd)

b. DS1 Facility

DS1 facilities are available for Entrance Facilities and for DTT facilities. A DS1 facility is capable of transmitting electrical signals at a nominal 1.544 Mbit/s, with the capability to channelize up to 24 voice-frequency transmission paths. Compatible Interface Groups are described in 3., following.

c. DS3 Facility

DS3 facilities are available for Entrance Facilities and DTT facilities. A DS3 facility is capable of transmitting electrical signals at a nominal 44.736 Mbit/s, with the capability to channelize up to 672 voice-frequency transmission paths. Compatible Interface Groups are described in 3., following.

d. Hubbing

Hubbing arrangements requested from the SWC to a hub location, or from one hub location to a different hub location, shall be ordered out of this section as DTT for Switched Access only. Hubbing arrangements ordered from Section 7 of the Interstate Access Service Tariff F.C.C. No. 1, for the provision of Shared Use services can be utilized for both PLTS and Switched Access Service.

When the SWC is in the same wire center building as an end office, access tandem and/or hub, the customer must order DTT from the SWC as set forth in 1. and 2., preceding. A multiplexing function performed in the SWC for an EF is not a hubbing arrangement.

A hub is a Company designated wire center, other than the SWC, at which multiplexing functions are performed. Hubbing allows the customer to terminate a DTT facility to a hub so that the facility can be de-multiplexed to a lower capacity and the lower capacity DTT facility is then routed to an access tandem, end office or another hub. When the customer requests DTT from the SWC to a hub and facilities from the hub to an access tandem, the customer must order DTT from the hub to the access tandem and TST from the access tandem to end offices subtending that tandem.

Multiplexing functions for EF and DTT facilities are described in 4., following. Hub locations and the types of multiplexing available at each location for DS1 facilities are specified in the NECA Tariff F.C.C. No. 4. For DS3 facilities, the Company will work cooperatively with the customer to provide the desired hubbing arrangements.

6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES

A. Switched Transport (Cont'd)

3. Interface Groups

Four Interface Groups are provided for terminating Switched Transport at the customer's premises. Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.). Where transmission facilities permit, the individual transmission path between the customer's premises and the first point of switching may, at the option of the customer, be provided with optional features as set forth in 4., following.

As a result of the customer's access order and the type of Company transport facilities serving the customer's premises, the need for signaling conversions or two-wire to four-wire conversions, or the need to terminate digital or high frequency facilities in channel bank equipment, may require that Company equipment be placed at the customer's premises. For example, if a voice frequency interface is ordered by the customer and the Company facilities serving the customer's premises are digital, then Company channel bank equipment must be placed at the customer's premises in order to provide the voice frequency interface ordered by the customer.

Interface Group Transmission Specifications Data Transmission Parameters are delineated in Technical Reference GR-334-CORE.

Only certain Network Channel Interface Codes (NCI) are available at the customer's premises. The NCI codes associated with the Interface Groups may vary among different types of service based on the technical requirements. The various premises interfaces which are available with the Interface Groups, and the types of service with which they may be used, are set forth in e., following.

Based upon the Interface Group chosen by the customer, EF and DTT multiplexing arrangements may be required. Multiplexing arrangements are described in 4., following.

6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES

A.3. (Cont'd)

When Switched Access Services are ordered in conjunction with Private Line Transport DS3 Service which is provisioned with an optical interface ordered, provided and rated from Section 7 of the Interstate Access Service Tariff, F.C.C. No. 1, the common interface will be provisioned under the rules and regulations for Shared Use between Private Line Transport and Switched Access Services referenced in 2.7, preceding. Switched Access Services rates and charges as set forth in 6.8, following will apply for each channel of the Shared Use facility that is used to provide Switched Access Service. Technical specifications are delineated in Qwest Corporation Technical Publication PUB 77324.

When Interface Groups 1, 2, 6 or 9 are associated with FGD Service with SS7 Out of Band Signaling, no signaling will be done via the message channel.

When *SWITCHNET* 56 Service is ordered in conjunction with FGD, it requires the use of a separate trunk group equipped with Interface Group 6. This service allows a customer to establish a connection between the customer's premises and a suitably equipped end user premises over facilities capable of transmitting digital data at 56 kbit/s.

a. Interface Group 1

Interface Group 1, except as set forth in the following, provides two-wire voice frequency transmission at the customer's premises.

Interface Group 1 is not provided in association with Trunkside Access when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with Trunkside Access when the first point of switching provides only four-wire terminations.

b. Interface Group 2

Interface Group 2 provides four-wire voice frequency transmission at the customer's premises.

c. Interface Group 6

Interface Group 6 provides DS1 level digital transmission at the customer's premises. The interface may be provided with Clear Channel Capability.

6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES

A.3. (Cont'd)

d. Interface Group 9

Interface Group 9 provides DS3 level digital transmission at the customer's premises.

e. Available Premises Interface Codes

The following matrix lists the NCI codes available for each Interface Group with additional information defining the availability of each offering. The provision of some NCI codes generally requires placement of Company equipment at the customer's premises. These codes are denoted with the footnote symbol[1].

INTERFACE GROUP	COMPANY SWITCH SUPERVISORY	NCI CODE	SWITCHED ACCESS SERVICE					
			FGA	FGB	FGC	FGD	DID	
1	LO	2LS2	X					
	LO	2LS3	X					
	GO	2GS2	X					
	GO	2GS3	X					
	RV, EA, EB, EC	4EA3-E[1]			X	X	X	X
	RV, EA, EB, EC	4EA3-M[1]			X	X	X	X
	RV, EA, EB, EC	6EB3-E[1]			X	X	X	X
	RV, EA, EB, EC	6EB3-M[1]			X	X	X	X
	RV	2RV3-0			X	X	X	
	RV	2RV3-T			X	X	X	X
	CCS	2N02					X	

[1] Company equipment is generally required at the customer's premises.

6. SWITCHED ACCESS SERVICE

6.1 GENERAL

6.1.2 RATE CATEGORIES

A.3.e. (Cont'd)

INTERFACE GROUP	COMPANY SWITCH SUPERVISORY	NCI CODE	SWITCHED ACCESS SERVICE					
			FGA	FGB	FGC	FGD	DID	
2	LO, GO	4SF2	X					
	LO	4LS2	X					
	GO	4GS2	X					
	RV, EA, EB, EC	4SF2		X	X	X	X	
	RV, EA, EB, EC	6EA2-E[1]		X	X	X	X	
	RV, EA, EB, EC	6EA2-M[1]		X	X	X	X	
	RV, EA, EB, EC	8EB2-E[1]		X	X	X	X	
	RV, EA, EB, EC	8EB2-M[1]		X	X	X	X	
	EA, EB, EC	8EC2-M[1]		X	X	X		
	RV	4RV2-0		X	X	X		
	RV	4RV2-T		X	X	X	X	
	CCS	4N02				X		
	6	LO, GO	4DS9-15[1]	X				
		LO, GO	4DS9-15L[1]	X				
LO, GO		4DS9-15S[1]	X					
RV, EA, EB, EC		4DS9-15[1]		X	X	X	X	
RV, EA, EB, EC		4DS9-15L[1]		X	X	X	X	
RV, EA, EB, EC		4DS9-15S[1]		X	X	X	X	
CCS		4DS9-15				X		
CCS		4DS9-15B[2]				X		
CCS		4DS9-15S[2]				X		

[1] Company equipment is generally required at the customer's premises.

[2] Required with Clear Channel Capability.