

ACCESS SERVICE

6. Switched Access Service6.1 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 end office. Each path is capable of the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Switched Access Service provides for the use of common terminating, switching and trunking facilities of the Telephone Company's public switched network by customers for their use in furnishing their services. Directory listings are not included with Switched Access. These are provided from the Telephone Company's Local General Tariff.

Switched Access Service is provided in various service categories which are differentiated by their technical characteristics, e.g., the manner in which an end user accesses them in originating calling, e.g., with or without an access code.

Switched Access Service provides end users the ability to originate calls to a customer's premises, and to terminate calls from a customer's premises to an end user in the state associated with the specific service category provided.

At the option of the customer, Switched Access Service may be provided for both interstate and intrastate communications. When the customer orders such mixed access, it is responsible for providing the reports in 2.3.10 preceding to the Telephone Company.

When the customer plans to use Switched Access Service in connection with the resale of services of another customer, such Switched Access Service will be provided as set forth in the following paragraphs of this Section. The customer shall order the features and options it desires in accordance with the provisions of this Section.

Pursuant to FCC Report and Order and Order On Further Reconsideration and Supplemental Notice of Proposed Rulemaking, 6 FCC Rcd 4524 (1991), the Telephone Company offers a Lineside Switched Access BSA (Lineside BSA) and a Trunkside Switched Access BSA (Trunkside BSA) and a number of BSEs (see FCC No. 1, Section 6)

6.1.1 Switched Access Service Arrangements

There are four service categories through which Switched Access Service is provided, Feature Groups A, B, D and 900 Access Service. Following is a brief description of the Feature Group arrangements and 900 Access Service. More detailed descriptions are set forth in 6.2 following.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Switched Access Service Arrangements (Cont'd)(A) Feature Group A (FGA)

FGA Access, which is available to all customers, provides line side access to Telephone Company end office switches with an associated seven digit local telephone number for the customer's use in originating and terminating communications to an Interexchange Carrier's intrastate access service.

When ordering FGA service, the customer must specify the Interexchange Carrier to which the FGA service is physically connected. If the customer cannot specify the type of connection used to transport traffic to the Interexchange Carrier's access service, the lineside service should be obtained as provided under the Telephone Company's Local General Tariffs.

A more detailed description of FGA Access is provided in 6.2.1 following.

(B) Feature Group B (FGB)

FGB Access, which is available to all customers, provides trunk side access to Telephone Company end office switches with an associated uniform 950-0XXX or 950-1XXX access code for the customer's use in originating and terminating communications.

(C) Feature Group D (FGD)

FGD Access, which is available to all customers, provides trunk side access to Telephone Company end office switches with an associated 101XXXX access code for the customer's use in originating and terminating communications.

(D) 900 Access Service

Originating 900 Access Service is a service that is provided via 900 Access Service Switched trunk groups, or may be provided in conjunction with FGD. The Service provides for the six-digit screening and translation of dialed 1+900+NXX+XXXX numbers, and based on the assigned NXX code, routes the call to the designated customer premise.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Switched Access Service Arrangements (Cont'd)

Switched Access Service categories are available as follows:

- Feature Group A: to all customers.
- Feature Group B: to all customers.
- Feature Group D: to all customer
- 900 Access Service: to all customers.

A. WATS Service

WATS Service is a type of Switched Access Service which provides a connection from a customer's premises to a customer's end user's premises through the combination of a WATS Access Connection (WAC) which connects the customer's end user's premises to a WATS Serving Office (WSO) and Feature Group D Access Service as set forth in 6.2.3 following.

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories

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

- Access Connections
- Switched Transport
- Local Switching

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Access Connections

The Access Connections rate category provides for the quantities of lines or trunks, and interface arrangements established for the customer. Such Access Connections are provided at rates and charges as set forth in 6.8.1 following.

Access Connections are differentiated by type of traffic. There are three major Traffic Types. These are: Originating, Terminating and Directory Assistance. Originating Traffic Type represents access capacity within the state for carrying traffic from the end user to the customer; Terminating Traffic Type represents access capacity within the state for carrying traffic from the customer to the end user; and Directory Assistance Traffic Type represents access capacity within the state for carrying Directory Assistance Traffic from the customer to a Directory Assistance location. Originating capacity may be further categorized to Domestic, Toll Free Data Base Access Service, 900, Operator and Operator Transfer Service. When ordering capacity for FGs A, B or D the customer must, at a minimum, specify originating, and/or terminating Traffic Types. Directory Assistance Traffic Type is used for ordering Directory Assistance Service as set forth in Section 35 of the Guide for Detariffed Services - Competitive.

Access Connections are provided in ten separate Interface Groups. Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.). Where transmission facilities permit, the individual transmission paths 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 6.1.2(A)(12) following. Provision of the Interface Groups and any optional features may require placement of Telephone Company equipment on the customer's premises.

Interface Group 1 is provided with Transmission Specifications Type C, and Interface Groups 2 through 10 are provided with Transmission Specifications Type A or B, depending on the Feature Group and whether the Access Service is routed directly or through an access tandem. Interface Groups 1 through 10 are provided with Data Transmission Parameters.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Access Connections (Cont'd)

Only certain premises interface codes are available at the customer's premises. The premises interfaces associated with the Interface Groups may vary among Feature Groups. The various premises interfaces which are available with the Interface Groups, and the Switched Access Arrangements with which they may be used, are set forth in 6.1.2(A) (11) following.

The capacity provided with each Interface Group is based on the customer's order subject to 5.3 preceding.

(1) Interface Group 1

- (a) Interface Group 1, except as set forth in (b) following, provides two-wire voice frequency transmission at the point of termination at the customer's premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.
- (b) Interface Group 1 is not provided in association with FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB or FGD when the first point of switching provides only four-wire terminations.
- (c) The transmission path between the point of termination at the customer's premises and the first point of switching 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 300 to 3000 Hz.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Access Connections (Cont'd)(1) Interface Group 1 (Cont'd)

(d) The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(2) Interface Group 2

- (a) Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer's premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.
- (b) The transmission path between the point of termination at the customer's premises and the first point of switching 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.
- (c) The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Access Connections (Cont'd)(3) Interface Group 3

(a) Interface Group 3 provides a group level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 60 to 108 kHz, with the capability to channelize up to 12 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex equipment to derive 12 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

(b) The interface is provided with individual transmission path SF supervisory signaling.

(4) Interface Group 4

(a) Interface Group 4 provides supergroup level group analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 312 to 552 kHz, with the capability to channelize up to 60 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 60 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

(b) The interface is provided with individual transmission path SF supervisory signaling.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Access Connections (Cont'd)(5) Interface Group 5

(a) Interface Group 5 provides mastergroup level analog transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals between the frequencies of 564 to 3084 kHz, with the capability to channelize up to 600 voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Group are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex and channel bank equipment to derive 600 transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

(b) The interface is provided with individual transmission path SF supervisory signaling.

(6) Interface Group 6

(a) Interface Group 6 provides DS1 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive 24 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, a DS1 signal in D3/D4 format.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Access Connections (Cont'd)(6) Interface Group 6 (Cont'd)

(b) The interface is provided with individual transmission path bit stream supervisory signaling.

(7) Interface Group 7

(a) Interface Group 7 provides a DS1C level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 3.152 Mbps, with the capability to channelize up to 48 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 48 voice frequency transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

(b) The interface is provided with individual transmission path bit stream supervisory signaling.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Access Connections (Cont'd)(8) Interface Group 8

- (a) Interface Group 8 provides DS2 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 6.312 Mbps, with the capability to channelize up to 96 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment in its office to derive up to 96 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.
- (b) The interface is provided with individual transmission path bit stream supervisory signaling.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Access Connections (Cont'd)(9) Interface Group 9

- (a) Interface Group 9 provides DS3 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 44.736 Mbps, with the capability to channelize up to 672 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 672 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.
- (b) The interface is provided with individual transmission path bit stream supervisory signaling.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Access Connections (Cont'd)(10) Interface Group 10

- (a) Interface Group 10 provides DS4 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 274.176 Mbps, with the capability to channelize up to 4032 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 4032 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.
- (b) The interface is provided with individual transmission path bit stream supervisory signaling.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Access Connections (Cont'd)(11) Available Premises Interface Codes

Following is a matrix showing, for each Interface Group, which premises interface codes are available as a function of the Telephone Company switch supervisory signaling and Feature Group. For explanations of these codes, see 6.1.7 following.

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Service Arrangements			
			A	B	900 Service	D
1	LO	2LS2	X			
	LO	2LS3	X			
	GO	2GS2	X			
	LO, GO	2GS3	X			
	LO, GO	2DX3	X			
	LO, GO	4EA3-E	X			
	LO, GO	4EA3-M	X			
	LO, GO	6EB3-E	X			
	LO, GO	6EB3-M	X			
	RV, EA, EB, EC	2DX3		X	X	X
	RV, EA, EB, EC	4EA3-E		X	X	X
	RV, EA, EB, EC	4EA3-M		X	X	X
	RV, EA, EB, EC	6EB3-E		X	X	X
	RV, EA, EB, EC	6EB3-M		X	X	X
	EA, EB, EC	6EC3		X	X	X
	RV	2RV3-O		X	X	X
	RV	2RV3-T		X	X	X
	Out Of Band Signaling	2NO2				X

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Access Connections (Cont'd)

(11) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Service Arrangements			
			A	B	900 Service	D
2	LO, GO	4SF2	X			
	LO, GO	4SF3	X			
	LO	4LS2	X			
	LO	4LS3	X			
	LO	6LS2	X			
	GO	4GS2	X			
	GO	4GS3	X			
	GO	6GS2	X			
	LO, GO	4DX2	X			
	LO, GO	4DX3	X			
	LO, GO	6EA2-E	X			
	LO, GO	6EA2-M	X			
	LO, GO	8EB2-E	X			
	LO, GO	8EB2-M	X			
	LO, GO	6EX2-B	X			
	RV, EA, EB, EC	4SF2		X	X	X
	RV, EA, EB, EC	4SF3		X		
	RV, EA, EB, EC	4DX2		X	X	X
	RV, EA, EB, EC	4DX3		X		
	RV, EA, EB, EC	6DX2			X	
	RV, EA, EB, EC	6EA2-E		X	X	X
	RV, EA, EB, EC	6EA2-M		X	X	X
	RV, EA, EB, EC	8EB2-E		X	X	X
	RV, EA, EB, EC	8EB2-M		X	X	X
	EA, EB, EC	8EC2-M		X	X	X
	RV	4RV2-O		X	X	X
	RV	4RV2-T		X	X	X
	RV	4RV3-O		X	X	
	RV	4RV3-T		X	X	
	Out of Band Signaling	4NO2				X
3	LO, GO	4AH5-B	X			
	RV, EA, EB, EC	4AH5-B		X	X	X
	Out of Band Signaling	4AH5-B				X
4	LO, GO	4AH6-C	X			
	RV, EA, EB, EC	4AH6-C		X	X	X
	Out of Band Signaling	4AH6-C				X
5	LO, GO	4AH6-D	X			
	RV, EA, EB, EC	4AH6-D		X	X	X
	Out of Band Signaling	4AH6-D				X
6	LO, GO	4DS9-15	X			
	RV, EA, EB, EC	4DS9-15		X	X	X
	RV, EA, EB, EC	4DS9-15L		X	X	X
	Out of Band Signaling	4DS9-15				X
	64CCC	4DS9-15S				X
	64CCC	4DS9-1S				X

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Access Connections (Cont'd)(11) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Service Arrangements			
			A	B	900 Service	D
7	LO, GO	4DS9-31	X			
	LO, GO	4DS9-31L	X			
	RV, EA, EB, EC	4DS9-31		X	X	X
	RV, EA, EB, EC	4DS9-31L		X	X	X
	Out of Band Signaling	4DS9-31				X
8	LO, GO	4DS0-63	X			
	LO, GO	4DS0-63L	X			
	RV, EA, EB, EC	4DS0-63		X	X	X
	RV, EA, EB, EC	4DS0-63L		X	X	X
	Out of Band Signaling	4DS0-63				X
9	LO, GO	4DS6-44	X			
	LO, GO	4DS6-44L	X			
	RV, EA, EB, EC	4DS6-44		X	X	X
	RV, EA, EB, EC	4DS6-44L		X	X	X
	Out of Band Signaling	4DS6-44				X
10	64CCC	4DS6-44				X
	LO, GO	4DS6-27	X			
	LO, GO	4DS6-27L	X			
	RV, EA, EB, EC	4DS6-27		X	X	X
	RV, EA, EB, EC	4DS6-27L		X	X	X
	Out of Band Signaling	4DS6-27				X

(12) Out of Band Signaling Connection (USOC TPPSX)Premises Interface Codes

The Out of Band Signaling Ordering Option is provided only with Feature Group D. Out of band signaling connections are provided using Interface Groups 6 through 10. Following is a matrix for Interface Groups 6 through 10 showing which premises interface codes are available for signaling connections as a function of the out of band signaling level of digital transmission.

<u>Interface Groups</u>	<u>Level of Transmission</u>	<u>Premises Interface Codes</u>
6	DS1	4DS9-15
7	DS1C	4DS9-31
8	DS2	4DS0-63
9	DS3	4DS6-44
10	DS4	4DS6-27

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Access Connections (Cont'd)(13) Interface Group Nonchargeable Optional Features

The Telephone Company will provide the following optional features in association with the Interface Groups listed in (1) through (10) preceding. Only those Interface Groups referenced with each optional feature will be provided with that feature. The provision of such features may require placement of Telephone Company equipment on the customer's premises.

(a) Supervisory Signaling

A Supervisory signaling capability is provided for each Interface Group as listed in (1) through (10) preceding.

Where the transmission parameters permit, and where signaling conversion is required by the customer to meet its signaling capability, the customer may order an optional supervisory signaling arrangement for each transmission path provided as follows:

- For Interface Groups 1 and 2

DX Supervisory Signaling,
E&M Type I Supervisory Signaling, or
E&M Type II Supervisory Signaling

- For Interface Group 2

SF Supervisory Signaling,
Tandem Supervisory Signaling, or
E&M Type III Supervisory Signaling

In addition, with the agreement of the Telephone Company, Interface Groups 6 through 10, may at the option of the customer, be provided with individual transmission path SF supervisory signaling, where such signaling is available in Telephone Company central office(s).

These optional supervisory signaling arrangements are not available in combination with the Out of Band Ordering Option as specified in 6.1.2(2)(a) following.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Access Connections (Cont'd)(13) Interface Group Nonchargeable Optional Features (Cont'd)(b) Customer Specified Entry Switch Receive Level

This feature allows the customer to specify the receive transmission level at the first point of switching. The range of transmission levels which may be specified is described in Technical Reference TR-NPL-000334. This feature is available with Interface Groups 2 through 10 with Feature Groups A and B.

(B) Switched Transport

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 the customer's communications. For purposes of determining Switched Transport mileage, distance will be measured from the wire center that normally serves the customer's premises to the end office switch(es). Mileage measurement rules are set forth in 6.7.8 following and in this Section.

Switched Transport is a two-way voice frequency transmission path composed of Switched Entrance facilities, Direct-Trunked Transport facilities, and/or Tandem Switched Transport facilities which permit the transport of calls in the originating direction (from the end user 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 Telephone Company will work cooperatively with the customer in determining: (1) the Entrance Facility, (2) whether the service is to be directly routed to an end office switch or through an access tandem switch via Tandem Switched facilities, and (3) the directionality of the service. When the customer has ordered FGD with the Switched 56 Kilobit Service, the Telephone Company will provide facilities that are capable of supporting transmission of digital data at a speed of 56 Kbps.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Switched Transport (cont'd)

Switched Transport is provided at the rates and charges set forth in 6.8.1 following. The application of these rates with respect to individual Switched Access Arrangements is as set forth in 6.7.1(D) following.

Switched Transport is comprised of an Entrance Facility rate category, as described in (1) following, a Direct-Trunked Transport rate category, as described in (2) following, a Tandem Switched Transport rate category, as described in (3) following.

(1) Entrance Facility Rate Category

An Entrance Facility provides the communication path between a customer's premises and the Telephone Company SWC of that premises for the sole use of the customer. The Entrance Facility category is comprised of a Voice Grade rate, a DS1 rate or a DS3 rate. An Entrance Facility is required whether the customer's premises and the SWC are located in the same or different buildings. The types of facilities available for Entrance Facilities are described in 6.2.6 following.

(2) Direct-Trunked Transport Rate Category

Direct-Trunked Transport provides the transmission path from the SWC of the customer's premises to an end office or as an option from the SWC to a tandem or, in the case of voice grade service used for FGA, from the SWC to the Dial Tone Office (DTO). This transmission path is dedicated to the use of a single customer.

The Direct-Trunked Transport rate category is comprised 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 links. The per mile rate provides the transmission facilities, including intermediate transmission circuit equipment, between the end points of the circuit. The Direct-Trunked Transport rate is the sum of the fixed rate and the per mile rate. For purposes of determining the per mile rate, mileage shall be measured as airline mileage between the SWC of the customer's premises and the end office or directly to the access tandem using the V&H coordinates method. The types of facilities available for Direct-Trunked Transport are described in 6.2.6 following.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Switched Transport (Cont'd)(3) Tandem Switched Transport Rate Category

Tandem Switched Transport provides the transmission facilities from the SWC of the customer's premises to an end office utilizing tandem switching functions. Tandem Switched Transport consists of circuits dedicated to the use of a single customer from the SWC of the customer's premises to the access tandem and circuits used in common by multiple customers from the access tandem to an end office. For Tandem Switched Transport the Telephone Company shall determine the type of facilities from the SWC of the customer's premises to the end office(s) via the access tandem, unless the customer has ordered Direct-Trunked Transport to the tandem. The Telephone Company will base its determination on a busy hour minutes of capacity or on a per trunk basis provided by the customer when ordering service.

The Tandem Switched Transport rate category is comprised of a Tandem Transport fixed MOU rate, Tandem Transport Per Mile/Per MOU rate, and a Tandem Switching MOU rate. The fixed rate provides the circuit equipment at the end of the interoffice transmission links. The per mile rate provides 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 shall be measured as airline mileage between the access tandem and end office or Host Office housing the V&H coordinates method. For Toll Free Data Base Access Service originating access minutes, the Tandem Switching rate provides for tandem transport, tandem transmission, and tandem switching. No other Tandem Switched Transport usage charges will be assessed for Toll Free originating access minutes. For Other Than Toll Free Data Base Access Service originating access minutes, the Tandem Switching rate provides for tandem switching facilities. The Tandem Switched Transport rate is the sum of the fixed rate, the per mile rate, and the Tandem Switching MOU rate.

(C)

(C)

The Tandem Switched Transport fixed rate and the Tandem Transmission per mile/per MOU rate also apply to FGA with a Voice Grade Facility. The miles are measured from the DTO to the End Office.

The Dedicated Tandem Trunk Port is a monthly per port rate that provides a port for each dedicated trunk terminating on the serving wire center side of the access tandem.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Switched Transport (cont'd)(4) Transitional Terminating Access Charge

A Transitional Per-Minute Charge will apply from July 1, 2012 through June 30, 2013 to all Transitional Intrastate Access Service end-office switching minutes, as defined in 47 C.F.R. 51.903(j). The charge will be calculated as set forth in 47 C.F.R. §51.907(b)(2)(v). The charge will be eliminated July 1, 2013.

When the customer has ordered Feature Group D with out of band signaling the Telephone Company will provide out of band signaling in accordance with the technical specifications set forth in Verizon Supplement Common Channel Signaling (CCS) Network Interface Specification Issue #1 December 1990, and Supplement, August 1992, and Technical Reference TR-TSV-000905, August 1989, and TR-TSV-000962, Issue 1, September 1990, and as specified in 6.2.6 following.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Switched Transport (Cont'd)

The number of Switched Transport transmission paths provided is based on the customer's order and is determined by the Telephone Company as set forth in 6.5.5 following.

When the customer has ordered Feature Group D with the Out of Band Signaling ordering option as set forth in 6.2.3 following, the Telephone Company will provide Out of Band Signaling in accordance with the technical specifications set forth in Verizon Supplement Common Channel Signaling (CCS) Network Interface Specification, Issue #1, December 1990, and Technical Reference TR-TSV-000905, Issued July 1989.

(5) Chargeable Optional Features(a) Provision of Other Than Telephone Company Selected Traffic Routing

This option allows the customer to specify a particular traffic routing for trunk groups in lieu of Telephone Company selected routing, i.e., the customer may specify that the routing be on a direct trunk basis or via an access tandem. It is available with Feature Groups B and D.

(b) Customer Specification of Feature Group Directionality

This option allows the customer to specify that the operation of a trunk group will be one-way originating or terminating calling in lieu of Telephone Company selected two-way calling or, alternatively, that operation will be two-way calling in lieu of Telephone Company selected one-way calling. It is available with Feature Groups B and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Switched Transport (Cont'd)(5) Chargeable Optional Features (Cont'd)(c) Customer Specification of Switched Transport Termination

This option allows the customer to specify, for Feature Group B routed directly to an end office or access tandem, a four-wire termination of the Switched Transport at the entry switch in lieu of a Telephone Company selected two-wire termination. This option is available only when the Feature Group B arrangement is provided with Type B Transmission Specifications.

These options are rated on an individual case basis with both nonrecurring charges and monthly recurring rates applying.

(d) Toll Free Data Base Access Service

Toll Free Data Base Access Service is an originating only trunk side service. When a Toll Free call is originated by an end user, the Telephone Company will perform customer identification based on screening of the full ten-digits of the Toll Free number to determine the customer location to which the call is to be routed.

Customers can receive calls from within the state.

Toll Free Data Base Access Service calls may be delivered to the customer directly from an end office only when the end office is equipped with Toll Free Data Base query functionality, i.e., ability to query the Toll Free Data Base to perform ten-digit customer identification. When the end office does not have Toll Free Data Base query functionality, the query is delivered to the customer from the access tandem (all access tandems have Toll Free Data Base query functionality).

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Switched Transport (Cont'd)(5) Chargeable Optional Features (Cont'd)(d) Toll Free Data Base Access Service (Cont'd)

Feature Group D rates and charges apply to Toll Free Data Base Access Service calls. In addition to Feature Group D usage charges, a basic query charge as specified in 6.8.2 following applies to each Toll Free Data Base Access Service call delivered to the customer. A basic query charge consists of customer identification, i.e., Carrier Identification Number (CIC), delivery of the dialed Toll Free ten-digit number, ANI, and the allowable area of service from which Toll Free calls can be received.

(1) Transmission Specifications

Toll Free Data Base Access Service is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- When routed directly to the end office either Type B or C is provided.
- When routed to an access tandem only Type A is provided.
- Type A is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type A and Type B Transmission Specifications are provided with Interface Groups 2 through 10.

For Toll Free Data Base Access Service traffic originating from end offices with Data Base query functionality, all normal Feature Group D parameters apply.

For Toll Free Data Base Access Service traffic originating from all other end offices, Type A Transmission Specifications are provided for the facility between the access tandem and the customer's premises.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Switched Transport (Cont'd)(5) Chargeable Optional Features (Cont'd)(d) Toll Free Data Base Access Service (Cont'd)(2) Basic Query Charge

The basic query charge is assessed the customer based on the query of the Toll Free number dialed and/or delivered to the customer in conjunction with Toll Free Data Base Access Service. Toll Free calls delivered to the customer are routed based on information derived via queries to the Toll Free Data Base.

(e) Vertical Feature Package (VFP)

This feature package, available only with Toll Free Data Base Access Service, provides feature functionality in addition to the basic query. The feature package may include various destination options. The options available are POTS translation, carrier selection, time of day routing, day of week routing, specific date routing, geographic routing, routing based on percent of allocation, and emergency routing profiles.

(1) Vertical Feature Package Charge

The vertical feature package charge is assessed the customer when, in addition to the basic query, an Toll Free Data Base query contains one, all, or any combination of the vertical features.

(f) Multiplexing

Multiplexing provides the capability of converting the capacity or bandwidth of a facility from a higher level to a lower level or from a lower level to a higher level. Multiplexing arrangements available for Entrance Facilities and Direct-Trunked Transport facilities are described in 1. and 2. following. Rates and charges are set forth in Section 6.8 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Switched Transport (Cont'd)(5) Chargeable Optional Features (Cont'd)(f) Multiplexing (Cont'd)

When the customer requests Tandem Switched Transport and Direct-Trunked Transport to connect to the same Entrance Facility, multiplexing is required at the SWC and must be ordered by the customer as a chargeable optional feature of the Entrance Facility as set forth in 1. and/or 2. following.

Chargeable multiplexing arrangements ordered with an Entrance Facility at a SWC or a Direct-Trunked Transport facility at an end office are associated with the facility with the higher capacity or bandwidth (e.g., a DS1 to Voice Grade multiplexing arrangement is associated with the facility using a DS1 connection).

1. DS1 to Voice Grade

An arrangement that converts a DS1 channel to twenty-four Voice Grade channels utilizing time division multiplexing. For example, the customer has the option of ordering a DS1 to Voice Grade multiplexing for the Entrance Facility at the SWC when Voice Grade Direct-Trunked Transport is requested to an end office. A DS1 to Voice Grade multiplexing is required at the end office when the customer orders Lineside Access which is transported via a DS1 Direct-Trunked Transport facility.

2. DS3 to DS1

An arrangement which converts a DS3 channel to twenty-eight DS1 channels utilizing time division multiplexing. The twenty-eight channels may be further multiplexed utilizing DS1 to Voice Grade multiplexers. DS3 to DS1 multiplexing is available as a chargeable optional feature for Entrance Facilities and Direct-Trunked Transport facilities. DS3 to DS1 multiplexing is always required at the SWC of the customer's premises when a DS3 Entrance Facility is to connect to a lower level of capacity.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Switched Transport (Cont'd)(5) Chargeable Optional Features (Cont'd)(g) Diversity

Diversity denotes that a service must be provided over not more than two different physical routes. The rates for Diversity as specified in 6.8.2 following, applies per Entrance Facility, and is in addition to the Entrance Facility and channel mileage rates and charges for each high capacity service.

(h) Shared Network Arrangement

1. A Shared Network Arrangement is a service offering that enables a customer (the "Service User") to connect subtending services to the multiplexed High Capacity service or IntelliMuxSM service of another customer (the "Host Subscriber"), with the Telephone Company maintaining separate records and billing for each. Each customer will be billed for those rate elements associated with his own portion of the service configuration. Under no circumstances will the rates or charges for individual rate elements be split. This offering is limited to service configurations where a Service User obtains either subtending Voice Grade or Data Digital circuits from a Host's multiplexed DS1 service, or DS1 circuits from a Host's multiplexed DS3 service.
2. Under the Shared Network Arrangement, the Telephone Company may share with the host subscriber record information pertaining to the services of other users of the shared network. Such disclosure will be under the sole discretion of the Telephone Company as is necessary to perform billing reconciliations and/or other functions required in connection with maintaining account records.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Switched Transport (Cont'd)(5) Chargeable Optional Features (Cont'd)(h) Shared Network Arrangement (Cont'd)

3. Rate regulations specific to Shared Network Arrangements are contained in 6.8 following.

(i) Alternate Serving Wire Center

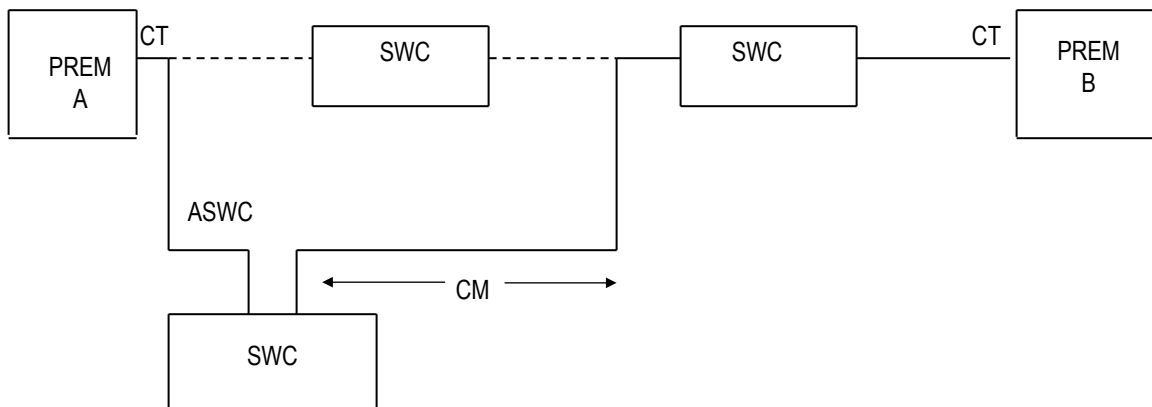
1. Alternate Serving Wire Center (ASWC) is an optional feature which provides a transmission path for DS1 or DS3 Entrance Facilities between the customer's designated premises and a serving wire center separate from the normal serving wire center.
2. The Telephone Company will designate the serving wire center to be used as the alternate. The ASWC feature is available where continuous wire centers with adjacent fiber feeder routes exist. Where facilities are not available, Special Construction rates and regulations may apply as set forth in the appropriate Special Construction Tariff. Where service is available, provisioning is based on a Negotiated Interval as described in 5.2.1(B) preceding.
3. The rate for Alternate Serving Wire Center, as specified in 6.8.2 following, applies per point of termination, and is in addition to the Entrance Facilities and Direct-Trunked Transport Charges for each DS1 or DS3 service provided over the alternate path. Direct-Trunked Transport for the alternately routed service is based on mileage measured from or to the alternate serving wire center.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Switched Transport (Cont'd)(5) Chargeable Optional Features (Cont'd)(i) Alternate Serving Wire Center (Cont'd)

3. (Cont'd)

Example: Rate application for a High Capacity service connecting two customer premises via ASWC.



----- Normal Transmission Path
 _____ Alternate Transmission Path

Rate Elements

2 Channel Terms (CT)

Channel Mileage (CM)

1 ASWC

Applicable Charges

Monthly and nonrecurring

Monthly

Monthly

(6) Nonchargeable Optional Features(a) Out of Band Signaling

- (1) This ordering option allows the customer to exchange signaling for Feature Group D call set-up over a communications path which is separate from the message path. This option is provided with SS7 protocol and is only available with Feature Group D. This option requires the establishment of a Common Channel Signal Access Service between the customer's SPOI and the Telephone Company's STP.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Switched Transport (Cont'd)(6) Nonchargeable Optional Features (Cont'd)(a) Out of Band Signaling (Cont'd)

- (2) Out of Band signaling is provided in both the originating and terminating direction on FGD service.

Each signaling connection is provisioned for two-way transmission of out of band signaling information.

- (3) Customers ordering out of band signaling are subject to the requirements specified in 2.3.9 and 2.3.10(B) preceding.
- (4) Out of band signaling is subject to the rates and charges as specified in 6.8.2 following.
- (5) Conversion from MF signaling to SS7 signaling or from SS7 signaling to 64 Clear Channel Capability (64CCC) is not subject to charges as specified in section 6.7.1(C)(3) following. These conversions will be performed at Telephone Company access tandems and end offices designated as having SS7 signaling or 64CCC. The number of trunks converted to SS7 signaling cannot exceed the number of trunks with MF signaling that are converted, and the number of trunks converted to 64CCC cannot exceed the number of trunks with MF or SS7 signaling that are converted. The customer must retain the same technical interface specifications unless otherwise mutually agreed upon by the Telephone Company and the customer, when appropriate Telephone Company central office switching equipment and other facilities exist. Conversion of tandem or end office trunks from MF signaling to SS7 signaling or from SS7 signaling to 64CCC will be scheduled on a project basis by the Telephone Company, in cooperation with the customer.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Switched Transport (Cont'd)(6) Nonchargeable Optional Features (Cont'd)(a) Out of Band Signaling (Cont'd)

- (6) At the customer's request, the Telephone Company will modify FGD with out of band signaling to accept SS7 signaling messages and protocol contained in TR-TSV-000962, Issue 1, September 1990, pursuant to successful completion of testing specified in section 6.2.5, following.
- (7) 64CCC will be provided in connection with FGD with out of band signaling digital trunk facilities provisioned at Interface Group 6 or 9, where appropriate Telephone Company equipment and other facilities exist.
- (8) 64CCC is provided through the use of Bipolar with Eight-Zeros Substitution line code which must be provided in both directions of transmission. 64CCC will be provisioned on T1 facilities whose digital transmission signaling is framed in the Extended Superframe Format. The same framing format must be used in both directions of transmission. Technical Reference TR-NWT-000938, Issue 1, August 1990, provides the technical specifications for 64CCC.
- (9) 64CCC requires the establishment of CCSAS as specified in section 6.2.5, following. The CCS/SS7 protocol requirements for 64CCC are specified in TR-TSV-000962, Issue 1, September 1990. When 64CCC is ordered, the Telephone Company will schedule additional network compatibility and other operational tests as specified in section 6.2.5, following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(C) Local Switching (Cont'd)(1) Common Switching (Cont'd)

Included as part of the Common Switching are various nonchargeable optional features which the customer can order to meet its specific communications requirements. These optional features are described in 6.3.1 following.

(2) Transport Termination

The Transport Termination functions provide for the trunk side arrangements which terminate the Switched Transport facilities. Included as part of Transport Termination are various nonchargeable optional termination arrangements. These optional terminating arrangements are described in 6.3.2 following.

Local Switching use is measured on an originating and terminating basis. Rates for Local Switching use are applied by Switched Access Service arrangements, e.g., FGs A, B, D and 900 Access Service, on an originating access minutes basis and by Switched Access Service arrangements, e.g., FGs A, B and D, on a terminating access minutes basis. Rates for Local Switching WATS, provided through the use of WATS Access Line Service ordered in association with FGD are applied on an originating access minutes basis. Rates for Local Switching Toll Free use provided through the use of WATS Access Line Service ordered in association with FGD and Local Switching 900 use are applied on a terminating access minutes basis.

The rates are further differentiated based upon the directionality of the traffic carried over the Switched Access Service.

(N)
|
(N)

The access minutes for Local Switching will be multiplied by the charges as set forth in 6.8.3(A) following. The access minutes for Local Switching WATS will be multiplied by the charges as set forth in 6.8.3(B) following. The access minutes for Local Switching 900 will be multiplied by the charges as set forth in 6.8.3 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(C) Local Switching (Cont'd)

The number of end office switching transmission paths provided will be determined as set forth in 6.5.5 following.

(3) 900 Access Service Nonrecurring Charge

The 900 Access Service nonrecurring charge is assessed to the customer based on NXX codes activated, or deactivated, in conjunction with 900 Access Service. The charge varies depending on how the customer orders NXXs activated or deactivated, i.e., by State or LATA. When ordered on a LATA basis, for both NXXs activated and deactivated, each NXX in the LATA is subject to the charge. If subsequent orders activate or deactivate NXX codes previously ordered in a different LATA, the nonrecurring charge still applies to the NXX codes activated or deactivated on the subsequent order.

(4) Operator Transfer Service Charge

The Operator Transfer Service charge is assessed the customer based on the number of 0 minus calls transferred to the customer by the Telephone Company operator, i.e., the customer's end user dials only the 0 digit with no additional digits. Rates and charges are set forth in 6.8 following.

The Operator Transfer Service charge recovers the costs associated with operator functions required to transfer end users to the customer of choice for operator services.

(5) Local Switching Shared End Office Trunk Port

The Local Switching Shared End Office Trunk Port minutes-of-use rate provides for the use of the shared end office trunk ports for termination of common transport trunk, and/or FGA access minutes at an end office.

(6) Local Switching Dedicated End Office Trunk Port *

The Local Switching Dedicated End Office Trunk Port monthly rate provides for termination of a dedicated trunk in the end office port. The rate is assessed per activated trunk for all trunkside services, per analog or digital end office.

* Rate will only apply to the portion associated with originating usage.

(C)
(C)

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(C) Local Switching (Cont'd)(7) Local Switching Composite Terminating End Office Charge (CTEOC)

The composite terminating end office charge will apply to all terminating access minutes of use.

(N)

(N)

6.1.3 Special Facilities Routing

A customer may request that the facilities used to provide Switched Access Service be specially routed. If, in the judgment of the Telephone Company there is no reason to refuse the special routing, rates and charges will be developed on an individual case basis.

6.1.4 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the makeup of the facilities and services provided from the customer's premises to the first point of switching. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

6.1.5 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test, at the time of installation, the following parameters: loss, C-notched noise, C-message noise, 3-tone slope, d.c. continuity and operational signaling, when these parameters are applicable. When the Access Connection is provided with interface groups 2 through 10 and the Transport Termination is two-wire (i.e., there is a four-wire to two-wire conversion in Switched Transport), balance parameters (equal level echo path loss) may also be tested.

If acceptance tests are not started within 30 minutes after pre-service tests have been completed and the customer has been notified by the Telephone Company that the tests have been completed, additional charges will apply, as set forth in 13. following, unless the delay in starting the tests is caused by The Telephone Company, in which event no additional charges will apply.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.6 Ordering Options and Conditions

Switched Access Service is ordered under the access order provisions set forth in 5. preceding. Also, included in that Section are other charges which may be associated with ordering Switched Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

6.1.7 Channel Interface and Network Channel Codes

This section explains the Channel Interface codes and Network Channel codes that the customer must specify when ordering Switched Access Service. Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces.

Material on this page formerly appeared on Page 117.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.7 Channel Interface and Network Channel Codes (Cont'd)

Example: If the customer specifies a MT Network Channel Code and a 2DC8-3 Channel Interface at the customer's premises, the following is being requested:

MT = Metallic Channel with a Predefined Technical Specification Package (1)
 2 = Number of physical wires at customer premises
 DC = Facility interface for direct current or voltage
 8 = Variable impedance level
 3 = Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

(A) Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
AB -		accepts 20 Hz ringing signal at customer's point of termination
AC -		accepts 20 Hz ringing signal at customer's end user's point of termination
AH -		analog high capacity interface
-	B	60 kHz to 108 kHz (12 channels)
-	C	312 kHz to 552 kHz (60 channels)
-	D	564 kHz to 3084 kHz (600 channels)
CT -		Centrex Tie Trunk Termination
DA -		data stream in VF frequency band at customer's end user's point of termination
DB -		data stream in VF frequency band at customer's point of termination
-	10	VF for TG1 and TG2
-	43	VF for 43 Telegraph Carrier type signals, TG1 and TG2
DC -		direct current or voltage
-	1	monitoring interface with series RC combination (McCullon format)
-	2	Telephone Company energized alarm channel
-	3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.7 Channel Interface and Network Channel Codes (Cont'd)(A) Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DD -		DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination
DE -		DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination
DS -		digital hierarchy interface
-	15	1.544 Mbps (DS1) format per PUB 41451 plus D4
-	15E	8-bit PCM encoded in one 64 kbps of the DS1 signal
-	15F	8-bit PCM encoded in two 64 kbps of the DS1 signal
-	15G	8-bit PCM encoded in three 64 kbps of the DS1 signal
-	15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal
-	15J	1.544 Mbps format per PUB 41451
-	15K	1.544 Mbps format per PUB 41451 plus extended framing format
-	15L	1.544 Mbps (DS1) with SF signaling
-	27	274.176 Mbps (DS4)
-	27L	274.176 Mbps (DS4) with SF signaling
-	31	3.152 Mbps (DS1C)
-	31L	3.152 Mbps (DS1C) with SF signaling
-	44	44.736 Mbps (DS3)
-	44L	44.736 Mbps (DS3) with SF signaling
-	63	6.312 Mbps (DS2)
-	63L	6.312 Mbps (DS2) with SF signaling
DU -		digital access interface
-	24	2.4 kbps
-	48	4.8 kbps
-	56	56.0 kbps
-	96	9.6 kbps
-	A	1.544 Mbps format per PUB 41451
-	B	1.544 Mbps format per PUB 41451 plus D4
-	C	1.544 Mbps format per PUB 41451 plus extended framing format

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.7 Channel Interface and Network Channel Codes (Cont'd)(A) Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DX -		duplex signaling interface at customer's point of termination
DY -		duplex signaling interface at customer's end user's point of termination
EA -	E	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EA -	M	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EB -	E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EB -	M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EC -		Type III E&M signaling at customer POT
EX -	A	tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions.
EX -	B	tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions.
GO -		ground start loop signaling - open end function by customer or customer's end user
GS -		ground start loop signaling - closed end function by customer or customer's end user
-	C	Centrex foreign exchange termination
-	M	for terminating in central office located answering service concentrator
IA -		E.I.A. (25 pin RS-232)
LA -		end user loop start loop signaling - Type A OPS registered port open end
LB -		end user loop start loop signaling - Type B OPS registered port open end
LC -		end user loop start loop signaling - Type C OPS registered port open end

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.7 Channel Interface and Network Channel Codes (Cont'd)(A) Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
LO -		loop start loop signaling - open end function by customer or customer's end user
LR -		20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR
LS -		loop start loop signaling - closed end function by customer or customer's end user
NO -		no signaling interface, transmission only
PG -		program transmission - no dc signaling
-	1	nominal frequency from 50 to 15000 Hz
-	3	nominal frequency from 200 to 3500 Hz
-	5	nominal frequency from 100 to 5000 Hz
-	8	nominal frequency from 50 to 8000 Hz
PR -		protective relaying*
RV -	0	reverse battery signaling, one way operation, originate by customer
-	T	reverse battery signaling, one way operation, terminate function by customer or customer's end user
SF -		single frequency signaling with VF band at either customer POT or customer's end user POT
TF -		telephotograph interface
TT -		telegraph/teletypewriter interface at either customer POT or customer's end user POT
-	2	20.0 milliamperes
-	3	3.0 milliamperes
-	6	62.5 milliamperes
TV -		television interface
-	1	combined (diplexed) video and one audio signal
-	2	combined (diplexed) video and two audio signal
-	5	video plus one (or two) audio 5 kHz signal(s) or one (or two) two wire
-	15	video plus one (or two) audio 15 kHz signal(s)
WA -		wideband bandwidth interface at customer's end user POT
-	1	limited bandwidth
-	2	nominal passband from 29000 to 44000 Hz
WB -		wideband data interface at customer POT

* Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.7 Channel Interface and Network Channel Codes (Cont'd)(A) Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
-	18S	18.75 kbps, synchronous
-	19A	up to 19.2 kbps, asynchronous
-	19S	19.2 kbps, synchronous
-	23A	up to 230.4 kbps, asynchronous
-	23S	230.4 kbps, synchronous
-	40S	40.8 kbps, synchronous
-	50A	up to 50.0 kbps, asynchronous
-	50S	50.0 kbps, synchronous
WC -		wideband data interface at customer's end user POT
-	18	18.75 kbps, synchronous
-	19	for 12-wire interface: 19.2 kbps, synchronous for 10-wire interface: up to 19.2 kbps, asynchronous
-	23	up to 230.4 kbps, asynchronous
-	23S	230.4 kbps, synchronous
-	40	40.8 kbps, synchronous
-	50	for 12-wire interface: 50.0 kbps, synchronous for 10-wire interface: up to 50.0 kbps, asynchronous
WD -		wideband bandwidth interface at customer POT
-	1	nominal passband from 300 to 18000 Hz
-	2	nominal passband from 28000 to 44000 Hz
-	3	nominal passband from 29000 to 44000 Hz

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.7 Channel Interface and Network Channel Codes (Cont'd)(B) Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

<u>Value (ohms)</u>	<u>Code(s)</u>
110	0
150	1
600	2
900	3+
35	5
75	6
124	7
Variable	8
100	9

- + For those interface codes with a 4-wire transmission path at the customer designated POT, rather than a standard 900 ohm impedance, the code (3) denotes a customer provided transmission equipment termination. Such terminations were provided to customers in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

(C) Digital Hierarchy Channel Interface Codes (4DS)

This interface is available to customers that select the multiplexed four-wire DSX-1 or higher facility interface option at the customer designated premises. Customer will be requested to provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS9, 4DS0 or 4DS6 plus the speed options indicated below:

<u>Interface Code and Speed Option</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>
4DS9-15	1.544	DS1
4DS9-31	3.152	DS1C
4DS0-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements

Switched Access Service is provided in four different Switched Access Service arrangements, Feature Groups A, B, D and 900 Access Service. The provision of each Switched Access Service arrangement requires an Access Connection, Switched Transport facilities and the appropriate Local Switching functions.

There are three specific transmission specifications that have been identified for the provision of Switched Access Service arrangements (i.e., Types A, B and C). The transmission specification provided is dependent on the Interface Group and the routing of the service, i.e., whether the service is routed directly to the end office or via an access tandem. The parameters for the transmission specifications are set forth in 6.4. following.

Feature Groups are arranged for either originating, terminating or two-way calling, based on the customer end office switching capacity ordered. Originating Toll Free Data Base Access Service, an optional feature of FGD, and 900 Access Service are arranged for originating only. Additional charges will apply for customer specification of directionality. Originating calling permits the delivery of calls from Telephone Exchange Service locations to the customer's premises. Terminating calling permits the delivery of calls from the customer premises to Telephone Exchange Service locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously. The Telephone Company will determine the type of calling to be provided unless the customer specifies in its order that a different type of directional calling is to be provided.

There are various chargeable and nonchargeable optional features available with the Switched Access Arrangements. These additional optional features are provided as Access Connections, Switched Transport, Common Switching or Transport Termination options.

Following are detailed descriptions of each of the available Switched Access Arrangements. Each is described in terms of its specific physical characteristics and calling patterns, the transmission specifications with which it is provided, optional features available for use with it and the standard testing capabilities.

The Common Switching and Transport Termination optional features, which are described in 6.3. following, are available at all Telephone Company end office switches, unless specifically stated otherwise.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements
(Cont'd)6.2.1 Feature Group A (FGA)(A) Description

- (1) FGA is provided in connection with Telephone Company electronic and electromechanical end offices. At the option of the customer, FGA is provided on a single or multiple line group basis and is arranged for originating calling only, terminating calling only, or two-way calling. FGA is arranged for use by the customer in the provision of its MTS/WATS-Type service or FX/ONAL Service.
- (2) FGA provides a line side termination at the first point of switching. The line side termination will be provided with either ground start supervisory signaling or loop start supervisory signaling. The type of signaling is at the option of the customer.
- (3) The Telephone Company shall select the first point of Switching, within the state, at which the line side termination is to be provided unless the customer requests a different first point of switching and Telephone Company facilities and measurement capabilities are available to accommodate such a request. Feature Group A service will only be provided in switch types with technical capabilities to provide terminating call screening and individualized call billing detail for both originating and terminating traffic.
- (4) Entrance Facilities are required between the serving wire center and an interexchange carrier's point of presence, and the customer shall provide the connecting facility assignment (CFA) information, as defined in Section 2.6 preceding, using the industry standard Common Language Facility Identification. The CFA must include channel assignment information necessary to connect the FGA service to the intrastate access network.
- (5) For existing FGA service installed prior to August 29, 1998, connecting facility assignment information is not required. This information must be provided if any changes or rearrangements are requested for the existing services. Administrative changes will be allowed to all existing service customers without having to provide CFA.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.1 Feature Group A (FGA) (Cont'd)(A) Description (Cont'd)

- (6) A seven digit local telephone number assigned by the Telephone Company is provided for access to FGA switching in the originating direction. The seven digit local telephone number will be associated with the selected end office switch and is of the form NXX-XXXX.

If the customer requests a specific seven digit telephone number that is not currently assigned, and the telephone company can, with reasonable effort, comply with that request, the requested number will be assigned to the customer.

- (7) FGA switching, when used in the terminating direction, is arranged with dial tone start-dial signaling. When used in the terminating direction FGA switching may, at the option of the customer, be arranged for dial pulse or dual tone multifrequency address signaling, subject to availability of equipment at the first point of switching. When FGA switching is provided in a hunt group or uniform call distribution arrangement, all FGA switching will be arranged for the same type of address signaling.
- (8) No address signaling is provided by the Telephone Company when FGA Switching is used in the originating direction. Address signaling in such cases, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Switched Transport provided.
- (9) FGA switching, when used in the terminating direction, may be used to access valid NXXs in the state, local operator service (0- and 0+), directory assistance (555-1212), emergency reporting service (911), exchange telephone repair, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate digits). Charges for FGA terminating calls requiring operator assistance on calls to exchange telephone repair or 911 will only apply where sufficient call details are available. Additional non-access charges will also be billed on a separate account for (1) an operator surcharge, as set forth in the general

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.1 Feature Group A (FGA) (Cont'd)(A) Description (Cont'd)

(9) (Cont'd)

services tariffs, for local operator assistance (0- and 0+) calls and, (2) calls from a FGA line to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. For calls to Directory Assistance (555-1212), Switched Access Service usage rates will not apply. Instead, calls to this service are subject to the Directory Assistance Service per call rates as set forth in Section 9 following.

- (10) When a FGA switching arrangement for an individual customer (a single line or entire hunt group) is discontinued at an end office, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

(B) Optional Features(1) Common Switching Optional Features

- (a) Hunt Group Arrangement
- (b) Uniform Call Distribution Arrangement
- (c) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement
- (d) Call Denial
- (e) Service Code Denial
- (f) Toll Billing Exception
- (g) WATS Access Line Service with the following options:
 - 1) Hunt Group Arrangement
 - 2) Uniform Call Distribution Arrangement
 - 3) Nonhunting Number for use with Hunt Group or Uniform Call Distribution Arrangements
 - 4) Code Screening
 - 5) Overflow Advance Arrangement

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements
(Cont'd)6.2.1 Feature Group A (FGA) (Cont'd)(B) Optional Features (Cont'd)(2) Transport Termination Optional Features

- (a) Two-way operation with dial pulse address signaling and loop start supervisory signaling
- (b) Two-way operation with dial pulse address signaling and ground start supervisory signaling
- (c) Two-way operation with dual tone multifrequency address signaling and loop start supervisory signaling
- (d) Two-way operation with dual tone multifrequency address signaling and ground start supervisory signaling
- (e) Terminating operation with dial pulse address signaling and loop start supervisory signaling
- (f) Terminating operation with dial pulse address signaling and ground start supervisory signaling
- (g) Terminating operation with dual tone multifrequency address signaling and loop start supervisory signaling
- (h) Terminating operation with dual tone multifrequency address signaling and ground start supervisory signaling
- (i) Originating operation with loop start supervisory signaling
- (j) Originating operation with ground start supervisory signaling

(3) Switched Transport Optional Features

- (a) Supervisory Signaling (as set forth in 6.1.2(A) (2) (a) preceding)
- (b) Customer Specified Entry Switch Receive Level

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements
(Cont'd)6.2.1 Feature Group A (FGA) (Cont'd)(B) Optional Features (Cont'd)

(4) Certain other features which may be available in connection with Feature Group A are provided under the Telephone Company's local general services tariffs. These are:

- (a) Call Forwarding
- (b) Call Waiting
- (c) Speed Dialing
- (d) Remote Call Forwarding
- (e) IntraLATA extensions
- (f) Directory listings

(C) Transmission Specifications

FGA is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGA to the first point of switching.

(D) Testing Capabilities

FGA is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line and milliwatt (102 type) test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, additional Cooperative Acceptance Testing and Nonscheduled Testing are available for FGA as set forth in 13 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements
(Cont'd)6.2.2 Feature Group B (FGB)(A) Description

- (1) FGB, when directly routed to an end office (i.e., provided without the use of an access tandem switch), is provided at appropriately equipped Telephone Company electronic end office switches. When provided via Telephone Company designated electronic access tandem switches, FGB switching is provided at Telephone Company electronic end office switches.
- (2) FGB is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling.
- (3) FGB switching is provided with multifrequency address signaling in both the originating and terminating directions. Except for FGB switching provided with the automatic number identification (ANI) or rotary dial station signaling arrangements as set forth in 6.3 following, any other address signaling in the originating direction, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Access Connections and Switched Transport provided.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.2 Feature Group B (FGB) (Cont'd)(A) Description (Cont'd)

- (4) The access code for FGB switching is a uniform access code. The form of the uniform access code is 950-0XXX or 950-1XXX for carriers. These uniform access codes will be the assigned access numbers of all FGB Switched Access Service provided to the customer by the Telephone Company.
- (5) FGB switching, when used in the terminating direction, may be used to access valid NXXs in the state, community information services of an information service provider and other customer's services (by dialing the appropriate digits). When directly routed to an end office, only those valid NXX codes served by that end office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. Non-access charges will be billed for calls from a FGB trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-0XXX or 950-1XXX access codes, local operator assistance (0- and 0+), directory assistance (555-1212), service code (911) or 101XXXX access codes. Calls will be completed to Directory Assistance (555-1212) when FGB switching is combined with Directory Assistance switching. The combination of FGB Switched Access Service with DA service is provided as set forth in Section 35 of the Guide for Detariffed Services - Competitive. FGB may not be switched, in the terminating direction, to Switched Access Service Feature Groups B and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements
(Cont'd)6.2.2 Feature Group B (FGB) (Cont'd)(A) Description (Cont'd)

- (6) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGB switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGB switching arrangement provided. Different types of FGB or other switching arrangements may be combined in a single trunk group subject to availability of Telephone Company equipment.
- (7) When all FGB switching arrangements are discontinued at an end office in the state, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

(B) Optional Features(1) Common Switching Optional Features

- (a) Automatic Number Identification (ANI)
- (b) Up to 7 Digit Outpulsing of Access Digits to customer
- (c) WATS Access Line Service with the following options:
 - 1) Hunt Group Arrangement
 - 2) Uniform Call Distribution Arrangement
 - 3) Nonhunting Number for use with Hunt Group or Uniform Call Distribution Arrangements
 - 4) Code Screening
 - 5) Overflow Advance Arrangement
- (d) Alternate Traffic Routing

(2) Transport Termination Optional Features

- (a) Rotary Dial Station Signaling

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements
(Cont'd)6.2.2 Feature Group B (FGB) (Cont'd)(B) Optional Features (Cont'd)(3) Switched Transport Optional Features

- (a) Customer Specification of Feature Group Directionality
- (b) Provision of Other Than Telephone Company Selected Traffic Routing
- (c) Customer Specification of Switched Transport Termination

(C) Transmission Specifications

FGB is provided with either Type B or Type C Transmission Specifications. The parameters associated with these specifications are guaranteed to the end office when routed directly or to the first point of switching when routed via an access tandem. Type C Transmission specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGB to the first point of switching.

(D) Testing Capabilities

FGB is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.6 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Automatic Scheduled Testing, Cooperative Scheduled Testing, Manual Scheduled Testing and Non-Scheduled Testing will be provided as set forth in 13. following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.3 Feature Group D (FGD)(A) Description

- (1) FGD is provided at Telephone Company designated electronic end office switches whether routed directly or via Telephone Company designated electronic access tandem switches.

The out of band signaling ordering option on Feature Group D is provided where conditions permit through Telephone Company designated switches.

- (2) FGD is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling, or without signaling when Out of Band Signaling is specified.
- (3) FGD switching is provided with multifrequency address or Out of Band signaling. Up to 7 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer premises where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Access Connections and Switched Transport provided.
- (4) FGD switching, when used in the terminating direction, may be used to access valid NXXs in the state, community information services of an information service provider, and other customers' services (by dialing the appropriate codes) when such services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. Non-access charges will be billed for calls from a FGD trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.3 Feature Group D (FGD) (Cont'd)(A) Description (Cont'd)

(4) (Cont'd)

terminating direction will not be completed to 950-0XXX or 950-1XXX access codes, local operator assistance (0- and 0+), Directory Assistance (555-1212), service code (911 where available) and 101XXXX access codes. Calls will be completed to Directory Assistance (555-1212) when FGD switching is combined with Directory Assistance switching. The combination of FGD switched access with DA service is provided as set forth Section 35 of the Guide for Detariffed Services - Competitive. FGD may not be switched, in the terminating direction, to Switched Access Service Feature Groups B or D.

- (5) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGD switching is provided. When required by technical limitations and Operator Transfer Service, a separate trunk group will be established for each type of FGD switching arrangement provided. Different types of FGD or other switching arrangements may be combined in a single trunk group subject to availability of Telephone Company equipment.
- (6) The access code for FGD switching is a uniform access code of the form 101XXXX. A single access code will be the assigned number of all FGD access provided to the customer by the Telephone Company.

The number dialed by the customer's end user shall be a seven or ten digit number. The form of the numbers dialed by the customer's end users is NXX-XXXX, 0 or 1 + NXX-XXXX, or 1 + Toll Free Code + NXX-XXXX.

FGD switching also provides for dialing the digits "00" for access to the customer's operator or 911 for access to the Telephone Company's emergency reporting service.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.3 Feature Group D (FGD) (Cont'd)(A) Description (Cont'd)

- (7) A WATS Access Connection may, at the option of the customer, be provided for use with FGD Switched Access Service. A WATS Access Connection provides a connection between a customer's end user's premises and a Telephone Company end office switch and is provided only for use at the closed end of Toll Free and WATS services.

WATS Access Connections are arranged for either originating calling only or terminating calling only. They are provided with rotary dial or dual tone multifrequency address signaling and either loop start or ground start supervisory signaling. The choice of the type of signaling is at the option of the customer.

WATS Access Connections are provided as an effective two-wire transmission path. Each transmission path is provided with Standard Transmission Specifications as set forth in Verizon Telephone Companies' Tariff F.C.C.-No. 1. A WATS Access Connection may, at the option of the customer, be provided as an effective four-wire transmission path on an Individual Case Basis.

Originating only WATS Service customers, at their option and at no charge, may be provided access to test lines in their local central office to test the WATS Access Connection. Access to two types of lines is available, balance (type 100) and milliwatt (type 102). Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Connections are provided.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangement (Cont'd)6.2.3 Feature Group D (FGD) (Cont'd)(A) Description (Cont'd)

- (8) At the option of the customer, Operator Transfer Service as specified following is available for use with Feature Group D. Operator Transfer Service is ordered as set forth in 5.2 preceding and is provided to the customer via separate FGD trunks dedicated to Operator Transfer Service traffic.

Operator Transfer Service is an arrangement in which Telephone Company operators transfer 0 minus end user dialed calls, i.e., the end user dials 0 with no additional digits, to the customer designated by the end user.

The operator transfer function will be performed in the following manner:

- The operator answers the end user 0 minus dialed call.
- Initially, if the End User requests access to an Interexchange Carrier Service, the Telephone Company Operator will direct the end user to dial the interexchange carrier on a direct basis. If the end user insists that the Operator complete the call, the Operator will ask the end user to identify the Operator Services Provider or customer to which he/she desires to be connected. The Operator will then transfer the call to the designated service provider.
- If the end user has no preference, or the identified service provider has not subscribed to Operator Transfer Service, the end user will be asked to select from a list of available service providers.

The list of available Operator Transfer Service customers will be updated monthly. The order in which customers will be read to end users will be initially determined by lottery. For each subsequent monthly update, following the initial order selection, the customer in the first position on the list will be moved to the last position on the list. All other customers on the list will be moved up one position, e.g., 3rd to 2nd, 2nd to 1st, etc. New Operator Transfer Service customers will be placed at the bottom of the list of customers pending the next monthly update.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.3 Feature Group D (FGD) (Cont'd)(A) Description (Cont'd)

(8) (Cont'd)

0 minus from a Network Controlled Coin Line calls will be transferred to the end user designated customer. When the call is coin sent-paid, the customer, in order to accept such calls, will be required to order signalling as specified in TR-SY-00506 and TR-PL-0258.

The customer may receive inband, multi-link, or expanded inband coin control signalling, where available, from end offices served by an Operator Services Access Point. Different signalling types cannot be mixed on a single trunk group.

All rates and charges normally applicable to Feature Group D, i.e., non-recurring, monthly recurring, and usage sensitive, apply to Operator Transfer Service. Additionally, a charge as specified in 6.1.2(5) preceding, and 6.8 following, is assessed the customer per 0 minus call transferred.

- (9) An out of band signaling connection switched transport optional feature as described in 6.1.2(B) following is provided in conjunction with Feature Group D equipped with the Out of Band Signaling Ordering Option. An out of band signaling connection provides the interconnection between the Telephone Company's STP pair and the customer's SPOI(s).

When ordering an out of band signaling connection on Feature Group D the customer shall specify that all traffic is to be equipped with out of band signaling.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.3 Feature Group D (FGD) (Cont'd)(B) Optional Features(1) Common Switching Optional Features

- (a) Automatic Number Identification (ANI)
- (b) Service Class Routing
- (c) Alternate Traffic Routing
- (d) Hunt Group Arrangement for Use with WATS Service
- (e) Uniform Call Distribution Arrangement for Use with WATS Service
- (f) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Service
- (g) End Office End User Line Service Screening for Use with WATS Access Lines
- (h) Calling Party Number*
- (i) Charge Number*
- (j) Carrier Selection Parameter* ++
- (k) Access Transport Parameter (ATP)* ++

(2) Transport Termination Optional Features

- (a) Operator Trunk, Full Feature Arrangement

* Available only on originating FGD with Out of Band Signaling
++ Available only at selected Telephone Company Switches

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.3 Feature Group D (FGD) (Cont'd)(B) Optional Features (Cont'd)(3) Switched Transport Optional Features

- (a) Customer Specification of Feature Group Directionality
- (b) Provision of Other Than Telephone Company Selected Traffic Routing
- (c) Out of Band Signaling

(4) WATS Access Connections

- (a) Two-wire WATS Access Connections
- (b) Four-wire WATS Access Connections

(C) Transmission Specifications

FGD is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- When routed directly to the end office either Type B or C is provided.
- When routed to an access tandem only Type A is provided.
- Type A is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type A and Type B Transmission Specifications are provided with Interface Groups 2 through 10.

For Toll Free Data Base Access Service traffic originating from end offices with Data Base query functionality, all normal Feature Group D parameters apply.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.3 Feature Group D (FGD) (Cont'd)(C) Transmission Specifications (Cont'd)

For Toll Free Data Base Access Service traffic originating from all other end offices, Type A Transmission Specifications are provided for the facility between the access tandem and the customers premises.

Type DA Data Transmission Parameters are provided for the transmission path between the customer's premises and the access tandem and between the access tandem and the end office. Type DB Data Transmission Parameters are provided with FGD for the transmission path between the customer's premises and the end office when directly routed to the end office.

Feature Group D trunks equipped for Operator Transfer Service are subject to Feature Group D transmission specifications unless otherwise specified.

(D) Testing Capabilities

FGD is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. Automatic Scheduled Testing will be provided from the customer's premises to the first point of switching and from the first point of switching to the end office(s) for FGD as set forth in 13. following. Additional Cooperative Acceptance Testing, Cooperative Scheduled Testing, or Manual Scheduled Testing, and Non-Scheduled Testing, will be provided to the first point of switching for FGD as set forth in 13. following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.4 900 Access Service(A) Description

Originating 900 Access Service is a trunk side switched service that is available to the customer, at their option, via 900 Access Service trunks or trunk groups or in conjunction with Feature Group D. 900 Access Service traffic provided in conjunction with FGD is delivered on the same trunk group as non-00 Access Service traffic.

When a 1+900+NXX+XXXX call is originated by an end user, the Telephone Company will perform six digit screening of the dialed 900 NXX digits to identify the designated 900 customer. The call is routed based on the six digit screening function. If the call originates from an end office not equipped to perform the six digit screening function, the call will be routed to a switch with such capability.

The manner in which 900 Access Service is provided depends on whether the end office from which the call originates has equal access capability and/or the six digit screening capability. Additionally, provision of 900 Access Service is subject to the criteria specified in 6.5. following. In equal access end offices with six digit screening capability, served either on a direct or tandem basis, 900 Access Service will be provided via Feature Group D trunks and will utilize exchange access signaling.

In equal access end offices lacking the six digit screening capability, the call will be delivered utilizing conventional signaling, via an equal access tandem, to the customer over 900 Access Service or Feature Group D trunks, at the customer's option. The customer has the option of receiving both conventional

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.4 900 Access Service (Cont'd)(A) Description (Cont'd)

and exchange access signaling over Feature Group D trunks.

Calls to a 900 number originating from coin telephones, 0+ calls, third number calls, Inmate Service, Hotel/Motel Service and calling cards will be blocked.

Feature Group D rates and charges apply to 900 Access Service calls originated from end offices with equal access capability. Additionally, nonrecurring charges as specified in 6.1.2 (3) preceding and 6.8.11 following also apply.

(B) Technical Specifications

900 Access Service trunk groups are provided with either Type B or Type C Transmission Specifications as follows:

- When routed directly from the end office either Type B or Type C is provided.
- When routed to an access tandem only Type B is provided.
- Type B or Type C is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1 when routed directly to an end office. Type B is provided with Interface Groups 2 through 10, whether routed directly to an end office or to an access tandem.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.4 900 Access Service (Cont'd)(C) Network Controls

The Telephone Company will administer its network in such a manner that the impact of traffic surges due to peaked 900 Access Service traffic on other access service traffic is minimized. The Telephone Company may, at its option, implement network management controls (e.g., call gapping) to ensure acceptable service levels as defined in Section 6.5. following.

In order to ensure deployment of adequate protective controls, the customer must provide notice of 900 mass calling events to the Telephone Company's Network Management Center at least forty-eight (48) hours prior to the event. The Telephone Company will work cooperatively with the customer to determine the appropriate type, level and duration of controls.

6.2.5 Common Channel Signaling Access Service

Common Channel Signaling Access Service (CCSAS) enables a customer that is connected to the Verizon SS7 network to exchange SS7 messages among and between interconnected switching elements and signaling transfer points (STPs). CCSAS connectivity will support the functions of all other network elements connected to the Verizon SS7 network. This includes the use of the Verizon SS7 network to convey messages which neither originate nor terminate at a Verizon signaling point (SP) or service switching point (SSP) (i.e., transient messages). When the Verizon SS7 network is used to convey these transient messages, there shall be no alteration of the Integrated Services Digital Network User Part (ISDNUP) or the Transaction Capabilities Application Part (TCAP) user data that constitutes the content of the message. CCSAS connectivity also includes use of the Verizon SS7 network to convey messages initiated from a customer's SSP to the Verizon AIN Signaling Control Point (SCP), LIDB, Toll Free and BVS databases.

CCSAS is provisioned for two-way transmission of Out of Band SS7 signaling information.

Each CCSAS Signaling Connection provides two-way digital transmission at a speed of 56 Kbps. The connection to the Verizon STP pair can be made from either the customer's SP, which requires a minimum of two 56 Kbps circuits, or from the customer's STP pair, which requires a minimum of four 56 Kbps circuits. The

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.5 Common Channel Signaling Access Service (Cont'd)

STP locations are set forth in the National Exchange Carrier Association, Inc. (NECA) Tariff F.C.C. No. 4. Where multiple STP pairs are deployed in a Verizon LATA, Telephone Company end offices or tandems are interconnected to only one STP pair. The customer must route terminating traffic to the STP pair serving the end office or tandem switch where the call is to be terminated.

Customers ordering CCSAS in connection with FGD are subject to the requirements specified in 2.3.9 and 2.3.10(B) preceding.

When CCSAS is ordered, network compatibility and other operational tests will be performed jointly between Verizon and the customer at locations, dates and times as specified by Verizon in consultation with the customer. These tests are as specified in Generic Requirements GR-905-CORE, Issue 1, March 1995. When a 64 Kbps clear channel circuit (CCC) is ordered, the SS7 interfaces as specified in Technical Reference TR-TSV-000962, Issue 1, September, 1990, will also be tested. Successful completion of the appropriate tests is necessary to receive CCSAS. To protect the security of the network, certain information (i.e., point codes) provided by Verizon to the customer will be subject to a non-disclosure agreement.

At the customer's request, CCSAS will be modified to accept SS7 signaling messages and protocol specified in TR-TSV-000962, Issue 1, September, 1990, when FGD with out-of-band signaling is provided in accordance with 6.1.2(B)(2)(a). Successful completion of testing in accordance with TR-TSV-000962 is also required in this scenario.

CCSAS is subject to the rates and charges as specified in 6.8.2(B) following. A monthly recurring distance sensitive STP Mileage charge will be assessed on a per dedicated 56 kbps Out of Band Signaling connection basis to transport signaling information between the customer's SPOI and the Telephone Company's STP. A nonrecurring Installation charge will be assessed per 56 kbps dedicated Out of Band Signaling connection.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

6.2.6 Switched Transport Facilities

Customers requesting Lineside or Trunkside Switched Access service must specify the type of Entrance Facility, such as DS3, DS1, or Voice Grade. The customer must also specify if Direct-Trunked Transport or Tandem Switched Transport is desired. Tandem Switched Transport is not available for Lineside Switched Access Service. If Direct-Trunked Transport is requested, the customer must specify the type of Direct-Trunked Transport facility, DS3, DS1, or Voice Grade to be used. If Tandem Switched Transport is requested, the Telephone Company shall determine the type of facilities to be used from the SWC of the customer's premises to the end office, via the access tandem, unless the customer has ordered Direct-Trunked Transport to the tandem. The Telephone Company will base its determination on a busy hour minutes of capacity or on a per trunk basis provided by the customer when ordering service.

The types of facilities available to the customer for Entrance Facilities and Direct-Trunked Transport facilities for Lineside or Trunkside Switched Access service are voice grade, DS1 and DS3. Following is a brief description of each type of facility. Each type has its own characteristics and is available with multiplexing options as set forth in 6.1.2.(B) (5) (f) preceding.

(a) Voice Grade Facility

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 6.1.2 preceding.

(b) DS1 Facility

DS1 facilities are available for Entrance Facilities and for Direct-Trunked Transport facilities. A DS1 facility is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice-frequency transmission paths. Compatible Interface Groups are described in 6.1.2 preceding.

(c) DS3 Facility

DS3 facilities are available for Entrance Facilities and Direct-Trunked Transport facilities. A DS3 facility is capable of transmitting electrical signals at a nominal 44.736 Mbps, with the capability to channelize up to 672 voice-frequency transmission paths. Compatible Interface Groups are described in 6.1.2 preceding.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)6.2.7 Customized Design Contracts for High Capacity Entrance Facilities and Direct-Trunked Transport(A) Description

The Customized Design Contract (CDC) permits the Telephone Company to develop customer-specific offerings for service arrangements.

High Capacity service and any associated optional components may be offered at rates, charges, terms and conditions on a contract basis.

Rates, charges, terms and conditions for High Capacity service under CDC will be set forth in a contract between the Telephone Company and the customer. Such a contract, except as otherwise expressly specified, will be subject to all applicable terms and conditions set forth in this Tariff and other applicable Tariffs.

Under no circumstances will the rates exceed established Tariffed rates and charges set forth in this Tariff, and rates and charges shall exceed the costs of furnishing the service.

Rate treatment will be based on each customer's service characteristics and requirements.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

RESERVED FOR FUTURE USE

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Common Switching and Transport Termination Nonchargeable Optional Features

Following are descriptions of the various optional features that are available in lieu of, or in addition to, the standard features provided with the Feature Groups. They are provided as either Common Switching or Transport Termination options.

6.3.1 Common Switching Optional Features(A) Automatic Number Identification (ANI)

This option provides the automatic transmission of a seven digit number and information digits to the customer's premises for calls originating in the state, to identify the calling station. The ANI feature is an end office software function which is associated on a call-by-call basis with (1) all individual transmission paths in a trunk group routed directly between an end office and a customer's premises or, where technically feasible, with (2) all individual transmission paths in a trunk group between an end office and an access tandem, and a trunk group between an access tandem and a customer's premises.

The seven digit ANI telephone number is available with Feature Group B. With this Feature Group, technical limitations may exist in Telephone Company switching facilities which require ANI to be provided only on a directly trunked basis. Where direct trunking would not have been provided except as required by the provision of ANI, additional charges will apply for Provision of Other Than Telephone Company Selected Traffic Routing on an individual case basis with both nonrecurring charges and monthly recurring rates applying. ANI will be transmitted on all calls except those originating from Network Controlled Coin and Non-Coin Lines using Feature Group B, or (C) when an ANI failure has occurred.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Common Switching and Transport Termination Nonchargeable Optional Features
(Cont'd)6.3.1 Common Switching Optional Features (Cont'd)(A) Automatic Number Identification (ANI) (Cont'd)

The ten digit ANI telephone number is only available with Feature Group D. When Out of Band Signaling is specified, the customer may obtain an ANI equivalent by ordering the Charge Number Optional Feature, as specified in 6.3.1 (P) following. The ten digit ANI telephone number consists of the Numbering Plan Area (NPA) plus the seven digit ANI telephone number. The ten digit ANI telephone number will be transmitted on all calls except those identified as ANI failure, in which case only the NPA will be transmitted. (C)

ANI is provided from end offices at which Telephone Company recording for end user billing is not provided, or where it is not required. It is not provided from end offices for which the Telephone Company needs to forward ANI to its recording equipment.

Where ANI cannot be provided, e.g., on calls from information digits will be provided to the customer. (C)

The information digits identify: (1) telephone number is the station billing number - no special treatment required, (2) ANI failure has occurred in the end office switch which prevents identification of calling telephone number - must be obtained by operator or in some other manner, (3) hotel/motel originated call which requires room number identification, (4) Network Controlled Non-Coin Line, hospital, Network Controlled Inmate Line, etc. call which requires special screening or handling by the customer, and (5) call is an Automatic (C) (T) (T)

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Common Switching and Transport Termination Nonchargeable Optional Features
(Cont'd)6.3.1 Common Switching Optional Features (Cont'd)(A) Automatic Number Identification (ANI) (Cont'd)

Identified Outward Dialed (AIOD) call from customer premises equipment. The ANI telephone number is the listed telephone number of the customer and is not the telephone number of the calling party. These ANI information digits are available with Feature Groups B and D.

These information digits will be transmitted as agreed to by the customer and the Telephone Company.

(B) Up to 7 Digit Outpulsing of Access Digits to Customer

This option provides for the end office capability of providing up to 7 digits of the uniform access code (950-0XXX or 950-1XXX) to the customer's premises. The customer can request that only some of the digits in the access code be forwarded. The access code digits would be provided to the customer's premises using multifrequency signaling, and transmission of the digits would precede the forwarding of ANI if that feature were provided. It is available with Feature Group B.

(C) Service Class Routing

This option provides the capability of directing originating traffic from an end office to a trunk group to a customer designated premises, based on the line class of service (e.g., Network Controlled Coin Lines or hotel/motel), service prefix indicator (e.g., 0- or 0+) or service access code. It is provided in suitably equipped end office or access tandem switches and is available with Feature Group D. (C)

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Common Switching and Transport Termination Nonchargeable Optional Features
(Cont'd)6.3.1 Common Switching Optional Features (Cont'd)(D) Alternate Traffic Routing

This option provides the capability of directing originating traffic from an end office (or appropriately equipped access tandem) to a trunk group (the "high usage" group) to a customer designated premises until that group is fully loaded, and then delivering additional originating traffic (the "overflowing" traffic) from the same end office or access tandem to a different trunk group (the "final" group) to a second customer designated premises. The customer shall specify the last trunk CCS desired for the high usage group. It is provided in suitably equipped end office or access tandem switches and is available with Feature Groups B and D.

(E) Call Denial on Line or Hunt Group

This screening option limits terminating Feature Group A calls to completion within the state where the Feature Group A line resides. Interstate and international calls are blocked. Examples of such calls are:

- Operator-handled calls (0-, 00-);
- Calls to 950 NXX codes;
- Calls to the 900 NPA;
- Calls prefixed with 101XXXX

This list does not necessarily include all the types of calls which may be blocked in a given jurisdiction.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Common Switching and Transport Termination Nonchargeable Optional Features
(Cont'd)6.3.1 Common Switching Optional Features (Cont'd)(E) Call Denial on Line or Hunt Group (Cont'd)

Blocked calls are routed to a reorder tone or recorded announcement. This feature is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices. This option is available with Feature Group A.

(F) Service Code Denial on Line or Hunt Group

This screening option disallows completion of terminating Feature Group A calls to local directory assistance (555-1212), service code 911, and to local operator assistance (0). Blocked calls are routed to a reorder tone or recorded announcement. This feature is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices. This option is available with Feature Group A.

(G) Hunt Group Arrangement

This option provides the ability to sequentially access one of two or more line side connections in the originating direction, when the access code of the line group is dialed. This feature is provided in all Telephone Company end offices. It is available with Feature Group A. MTS/WATS-Type FGA and FX/ONAL FGA Services cannot be mixed in the same hunt group arrangement. Only services having the same features and operating characteristics may be included in the same hunt group arrangement. Thus, only services offered under this Company's Intrastate Access Tariff, Verizon Delaware Inc., P.S.C.-Del.-No. 35 and this Company's Interstate Access tariff, Verizon Telephone Companies Tariff, F.C.C. No. 1, may be included in the same hunt group arrangement. Additionally, multiple customers providing service to the same end user may not be combined in a single hunt group unless the switched transport mileage for each customer (i.e., the distance between the customer's serving wire center and the dial tone office to which service is ordered) is the same.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Common Switching and Transport Termination Nonchargeable Optional Features
(Cont'd)6.3.1 Common Switching Optional Features (Cont'd)(H) Uniform Call Distribution Arrangement

This option provides a type of a multiline hunting arrangement which provides for an even distribution of calls among the available lines in a hunt group. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

(I) Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement

This option provides an arrangement for an individual line within a multiline hunt or uniform call distribution group that provides access to that line within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

(J) Toll Billing Exception

This option provides an arrangement for the screening and blocking of calls where technically feasible, placed through Operator Services System equipment, which terminate on Feature Group A on a collect basis, and prevents calls from being billed to a Feature Group A number on a third party basis. It will not block calls made from non operator services handling, Independent Telephone Company calls that are not operator services handled, or cord board assisted calls. The option is available on Feature Group A only.

(K) End Office End User Line Service Screening for Use with WATS Access Lines

This option provides the ability to verify that an end user has dialed a called party address (by screening the called NPA and/or NXX on the basis of geographical bounds selected by the Telephone Company) which is in

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Common Switching and Transport Termination Nonchargeable Optional Features
(Cont'd)6.3.1 Common Switching Optional Features (Cont'd)(K) End Office End User Line Service Screening for Use with WATS Access Lines (Cont'd)

accordance with that end user's service agreement with the customer, e.g., WATS. This option is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices in which WATS Access Lines are provided. It is available with Feature Group D.

(L) Hunt Group Arrangement for Use with WATS Service

This option provides the ability to sequentially access one or two or more WATS Service in the terminating direction, when the hunting number of the WATS Service group is forwarded from the customer to the Telephone Company. This feature is provided in all Telephone Company end offices in which WATS Service is provided. It is available with Feature Group D.

(M) Uniform Call Distribution Arrangement for Use with WATS Service

This option provides a type of multiline hunting arrangement which provides for an even distribution of terminating calls among the available WATS Service in the hunt group. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Service is provided. It is available with Feature Group D.

(N) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Service

This option provides an arrangement for an individual WATS Service within a multiline hunt or uniform call distribution group that provides access to that WATS Service within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Service is provided. It is available with Feature Group D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Common Switching and Transport Termination Nonchargeable Optional Features (Cont'd)6.3.1 Common Switching Optional Features (Cont'd)(O) Calling Party Number (CPN)

This option provides for the automatic transmission of the calling party's ten-digit telephone number to the customer's premises for calls originating in the LATA. The ten-digit telephone number consists of the NPA plus the seven-digit telephone number, which may or may not be the same as the calling station's charge number. The specific protocol for CPN is contained in Verizon Supplement Common Channel Signaling (CCS) Network Interface Specification, Issue #1, December, 1990 and in Technical Reference TR-TSV-000905. This feature is available only with originating Feature Group D when out of band signaling is specified.

The Telephone Company will transmit a "privacy indicator" as part of the CPN information, if an end user has elected that the CPN information not be passed to the called party, and an end user has taken the actions necessary to ensure that the CPN is so blocked.

(P) Charge Number (CN)

This option provides for the automatic transmission of the ten-digit billing number of the calling station number and originating line information. The specific protocol for CN is contained in Verizon Supplement Common Channel Signaling (CCS) Network Interface Specification, Issue #1, December, 1990 and Technical Reference TR-TSV-000905. This feature is available only with originating Feature Group D when out of band signaling is specified.

(Q) Carrier Selection Parameter (CSP)

This option provides for the automatic transmission of a signaling indicator which signifies to the customer whether the call being processed originated from an end user who dialed the Customer's Access Code of that customer. The specific protocol for CSP is contained in Verizon Supplement Common Channel Signaling (CCS) Network Interface Specification, Issue #1, July, 1990 and Technical Reference TR-TSV-000905. This feature is available only with originating Feature Group D when out of band signaling is specified.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Common Switching and Transport Termination Nonchargeable Optional Features
(Cont'd)6.3.1 Common Switching Optional Features (Cont'd)(R) Access Transport Parameter (ATP)

This option provides for the transmission of CPE compatibility information from the originating switch to the customer's premises and, on terminating access, from the customer's premises to the terminating switch. All of the information is supplied by the calling party. This feature is available only with originating Feature Group D when out of band signaling is specified. The specific protocol for ATP is contained in Verizon Supplement Common Channel Signaling (CCS) Network Interface Specification, Supplement, August 1992, and Technical Reference TR-TSV-000962, issued September, 1990.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Common Switching and Transport Termination Nonchargeable Optional Features
(Cont'd)6.3.2 Transport Termination Optional Features(A) Rotary Dial Station Signaling

This option provides for the transmission of called party address signaling from rotary dial stations to the customer's premises for originating calls. This option is provided in the form of a specific type of Transport Termination. It is available with Feature Group B, only on a directly trunked basis. When direct trunking would not have been provided except as required by the provision of rotary dial station signaling, additional charges will apply for the Provision of Other Than Telephone Company Selected Traffic Routing on an individual case basis with both nonrecurring charges and monthly recurring rates applying.

(B) Operator Trunk - Full Feature

This option provides the initial coin return control function to the customer's operator. It is available with Feature Group D and is provided as a trunk type for Transport Termination.

This option is not available in combination with the Out of Band Signaling Ordering Option.

(C) Alternate Serving Wire Center

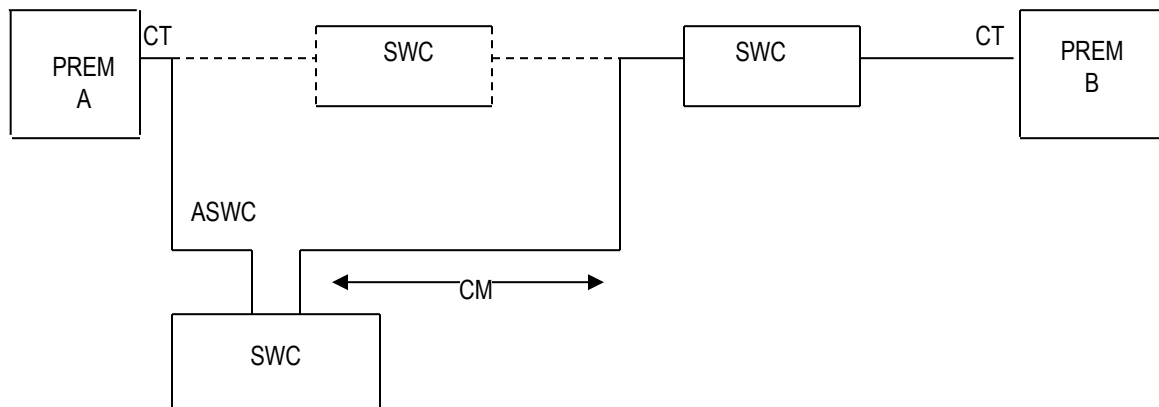
- (1) Alternate Serving Wire Center (ASWC) is an optional feature which provides a transmission path for DS1 or DS3 Entrance Facilities between the customer's designated premises and a serving wire center separate from the normal serving wire center.
- (2) The Telephone Company will designate the serving wire center to be used as the alternate. The ASWC feature is available where contiguous wire centers with adjacent fiber feeder routes exist. Where facilities are not available, Special Construction rates and regulations may apply as set forth in the appropriate Special Construction Tariff. Where service is available, provisioning is based on a Negotiated Interval as described preceding.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Common Switching and Transport Termination Nonchargeable Optional Features
(Cont'd)6.3.2 Transport Termination Optional Features (Cont'd)(C) Alternate Serving Wire Center (Cont'd)

- (3) The rate for Alternate Serving Wire Center, as specified following, applies per point of termination, and is in addition to the Entrance Facilities and Direct-Trunked Transport Charges for each DS1 or DS3 service provided over the alternate path. Direct-Trunked Transport for the alternately routed service is based on mileage measured from or to the alternate serving wire center.

Example: Rate application for a High Capacity service connecting two customer premises via ASWC.



----- Normal Transmission Path
 _____ Alternate Transmission Path

Rate Elements

2 Channel Terms (CT)
 Channel Mileage (CM)
 1 ASWC

Applicable Charges

Monthly and nonrecurring
 Monthly
 Monthly

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Transmission Specifications

Each Switched Access Service transmission path is provided with a standard transmission specification. There are three different standard specifications (Types A, B and C). The standard for a particular transmission path is dependent on the Switched Access Service, the Interface Group and whether the service is directly routed or via an access tandem. The available transmission specifications are set forth in 6.4.1 following. Data Transmission Parameters are also provided with each Switched Access Service transmission path. The Telephone Company will, upon receipt of a trouble report from the customer, conduct tests, either independently or cooperatively with the customer as appropriate, and take any necessary action to insure that the parameters set forth in 6.4.2(A) or 6.4.2(B) following are met.

The Telephone Company will maintain existing transmission specifications on functioning service configurations installed prior to the effective date of this tariff except that service configurations having performance specifications exceeding the standards listed in this provision will be maintained at performance levels specified in this Tariff. The Transmission Specifications contained in this Section are immediate action limits. Acceptance limits are set forth in Technical Reference TR-NPL-000334 and Associated Revision 1. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

Transmission specifications for out of band signaling connections are set forth in the Verizon Supplement Common Channel Signaling (CCS) Network Interface Specification, Supplement, August 1992, and in Technical Reference TR-TSV-000905, Supplement, July 1991.

Transmission specifications for 64 Clear Channel Capability, when provisioned with FGD with out of band signaling, are set forth in Technical Reference TR-NWT-000938, issued August 1990.

6.4.1 Standard Transmission Specifications

Following are descriptions of the three Standard Transmission Specifications available with Switched Access Services. Their specific applications in terms of the Switched Access Services and Interface Groups with which they are provided are set forth in 6.2.1, 6.2.2 and 6.2.3 preceding.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(A) Type A Transmission Specifications

Type A Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is $\pm$ 2.0dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is - 1.0 dB to + 3.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	32 dBrnCO
51 to 100	34 dBrnCO
101 to 200	37 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone, is less than or equal to 45 dBrnCO.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(A) Type A Transmission Specifications (Cont'd)(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer Point of Termination (POT) to the end office or via an access tandem. They are equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	21 dB	14 dB
POT to End Office		
- Direct	N/A	N/A
- Via Access Tandem	16 dB	11 dB

(B) Type B Transmission Specifications

Type B Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 2.5 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(B) Type B Transmission Specifications (Cont'd)(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type B1</u>	<u>Type B2</u>
less than 50	32 dBrnCO	35 dBrnCO
51 to 100	33 dBrnCO	37 dBrnCO
101 to 200	35 dBrnCO	40 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnCO.

* For Feature Group D, only Type B2 will be provided. For Feature Groups A and B, Types B1 or B2 will be provided as set forth in Technical Reference TR-NPL-000334.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(B) Type B Transmission Specifications (Cont'd)(5) Echo Control

Echo Control, identified as Impedence Balance for FGB and Equal Level Echo Path Loss for FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer Point of Termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Switched Access Services termination, and type of transmission path. They are greater than or equal to the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem		
- Terminated in 4-Wire trunk	21 dB	14 dB
- Terminated in 2-Wire trunk	16 dB	11 dB
POT to End Office		
- Direct	16 dB	11 dB
- Via Access Tandem . For FGB access	8 dB	4 dB

(C) Type C Transmission Specifications

Type C Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is $\pm$ 3.0 dB.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(C) Type C Transmission Specifications (Cont'd)(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type C1</u>	<u>Type C2</u>
less than 50	32 dBrnCo	38 dBrnCO
51 to 100	33 dBrnCO	39 dBrnCO
101 to 200	35 dBrnCO	41 dBrnCO

* For Feature Group D, only Type C2 will be provided. For Feature Groups A and B, Types C1 or C2 will be provided as set forth in Technical Reference TR-NPL-000334.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(C) Type C Transmission Specifications (Cont'd)(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a 16 dBm0 holding tone is less than or equal to 47 dBrnC0.

(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to End Office		
- Direct	13 dB	6 dB

6.4.2 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Switched Access Services. The specific applications in terms of the Feature Groups with which they are provided are set forth in 6.2.1, 6.2.2 and 6.2.3 preceding. Following are descriptions of each.

(A) Data Transmission Parameters Type DA(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

	<u>604 to 2804 Hz</u>	
less than 50 route miles		500 microseconds
equal to or greater than 50 route miles		900 microseconds

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.2 Data Transmission Parameters (Cont'd)(A) Data Transmission Parameters Type DA (Cont'd)(2) Envelope Delay Distortion (Cont'd)

	<u>1004 to 2404 Hz</u>	
less than 50 route miles		200 microseconds
equal to or greater than 50 route miles		400 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion is equal to or greater than:

Second Order (R2)	33 dB
Third Order (R3)	37 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

(B) Data Transmission Parameters Type DB(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.2 Data Transmission Parameters (Cont'd)(B) Data Transmission Parameters Type DB (Cont'd)(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

<u>604 to 2804 Hz</u>		
less than 50 route miles		800 microseconds
equal to or greater than 50 route miles		1000 microseconds

<u>1004 to 2404 Hz</u>		
less than 50 route miles		320 microseconds
equal to or greater than 50 route miles		500 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion is equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 7° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company

In addition to the obligations of the Telephone Company set forth in 2. preceding, the Telephone Company has certain other obligations pertaining only to the provision of Switched Access Service. These obligations are as follows:

6.5.1 Network Management

The Telephone Company will administer its network to ensure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services. Generally, service levels are considered acceptable only when both end users and customers are able to establish connections with little or no delay encountered within the Telephone Company network. The Telephone Company maintains the right to apply protective controls, i.e., those actions, such as call gaping, which selectively cancel the completion of traffic over any traffic that it carries over its network, including a customer's Switched Access Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of Telephone Company or customer facilities, natural disasters, mass calling or national security demands. In the event that protective controls applied by the Telephone Company result in the complete loss of service by the customer, the customer will be granted a Credit Allowance for Service Interruption as set forth in Section 2 preceding.

6.5.2 Design and Traffic Routing of Switched Access Service

For Switched Access Services, the customer and the Telephone Company will apply a capacity threshold test to determine the design and routing of Switched Access Service. When the amount of estimated traffic to and/or from an end office is equal to or less than 750 busy hour minutes of use, the customer may specify whether the traffic is to be routed directly between the end office and customer's premises or whether all or a portion of the traffic should be routed via an access tandem. When the amount of estimated traffic to and/or from an end office exceeds 750 busy hours minutes of use, the Telephone Company will work cooperatively with the customer to design and determine the routing and directionality, unless the customer orders the optional feature Customer Specification of Feature Group directionality, using a combination of direct high usage trunks between the end office and the customer's premises, with alternate route trunks via the access tandem.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.2 Design and Traffic Routing of Switched Access Service (Cont'd)

The Telephone Company will determine whether trunkside access will be provided through use of two-wire or four-wire trunk terminating equipment. However, for Feature Group B the customer may order the optional Feature Customer Specification of Switched Transport Termination. Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment, and the Telephone Company traffic routing plans.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.3 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to the Telephone Company through its own service evaluation routines, may also be made available to the customer based on previously arranged intervals and format. These data provide information on over-all end-to-end call completion and non-call completion performance, e.g., customer equipment blockage, failure results and transmission performance. The data do not include service performance data which are provided under other Tariff Sections e.g., Testing Service results. If the data are to be provided through a mechanized exchange of data, the cost of such exchange will be determined on an individual case basis and must be borne by the customer. Provision of the data in paper format will be at no charge.

The Telephone Company will make every reasonable effort to avoid the loss or mutilation of traffic or service performance data. However, the Telephone Company does not warrant the completeness or accuracy of these data to be any better than the Telephone Company considers adequate for its own purposes.

6.5.4 Trunk Group Measurements Reports

Subject to availability, the Telephone Company will make available trunk group data in the form of usage in CCS, peg count and overflow, to the customer based on previously agreed to intervals.

The Telephone Company will make every reasonable effort to avoid the loss or mutilation of traffic or service performance data. However, the Telephone Company does not warrant the completeness or accuracy of these data to be any better than the Telephone Company considers adequate for its own purposes.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.5 Determination of Number of Transmission Paths

The following applies to switched access voice transmission paths, and does not apply to signaling connections provided with CCSAS. The number of transmission paths for out of band signaling connections will be determined jointly by the Telephone Company and the customer.

Customers ordering Switched Access Services specify the number of transmission paths in the order for service. A transmission path is a communication path within the frequency bandwidth of approximately 300 to 3000 Hz or a derived communication path of a frequency bandwidth of approximately 300 Hz to 3000 Hz provided over a high frequency analog facility or a high speed digital facility between a customer's premises and a Telephone Company location.

6.5.6 Determination of Number of End Office Transport Terminations

For analog entry switches, a termination will be provided for each transmission path provided. For digital entry switches an equivalent termination will be provided for each transmission path provided.

6.5.7 Design Blocking Probability

The Telephone Company will design the facilities used in the provision of Switched Access Service to meet the blocking probability criteria as set forth in (A) through (D) following.

(A) For Feature Groups A and B no design blocking criteria applies.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.7 Design Blocking Probability (Cont'd)

- (B) For Feature Group D, the design blocking objective will be no greater than one percent (.01) between the point of termination at the customer premises and the end office switch, whether the traffic is directly routed without an alternate route or routed via an access tandem. Standard traffic engineering methods as set forth in reference document Technical Reference PUB TR EOP-000178 Trunk Traffic Engineering Concepts and Applications will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.
- (C) The Telephone Company will perform routine measurement functions in accordance with Telephone Company design blocking criteria to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional trunks be ordered by the customer when additional paths are required to reduce the measured blocking to the designed blocking level. For the transmission paths ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following tables.
 - (1) For transmission paths carrying only first routed traffic direct between an end office and a customer premises without an alternate route, and for paths carrying only overflow traffic, the measured blocking thresholds are as follows:

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.7 Design Blocking Probability (Cont'd)

(C) (Cont'd)

(1) (Cont'd)

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Per Trunk Group			
	15-20	11-14	7-10	3-6
	<u>Measurements</u>	<u>Measurements</u>	<u>Measurements</u>	<u>Measurements</u>
2	.070	.080	.090	.140
3	.050	.060	.070	.090
4	.050	.060	.070	.080
5-6	.040	.050	.060	.070
7 or more	.030	.035	.040	.060

- (2) For transmission paths carrying first routed traffic between an end office and a customer premises via an access tandem, the measured blocking thresholds are as follows:

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Per Trunk Group			
	15-20	11-14	7-10	3-6
	<u>Measurements</u>	<u>Measurements</u>	<u>Measurements</u>	<u>Measurements</u>
2	.045	.055	.060	.095
3	.035	.040	.045	.060
4	.035	.040	.045	.055
5-6	.025	.035	.040	.045
7 or more	.020	.025	.030	.040

6.5.8 End User Line and Usage Information Data(A) General

The Telephone Company will provide to customers, upon request, historical and projected information pertaining to the number of end user lines and latest available

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.8 End User Line and Usage Information Data(A) General (Cont'd)

average use per line. Such information shall be limited to that information which the Telephone Company uses in the course of performing its normal business operations. Additionally, the Telephone Company will make update information available only on a semi-annual basis.

(B) Information Content and Format

The historical and projected data will be provided on a per end office basis and will consist of the following information:

- Number of residential lines
- Number of business lines
- Average use per line

Unless requested otherwise, the data will be provided in machine-readable format.

(C) Availability of Data

The Telephone Company will provide the data to the requesting customer within 30 days of the receipt of the request. Separate requests are limited to two per end office per year.

- (D) The charge to the customer for such data will be developed on an individual case basis and will include only those incremental costs incurred by the Telephone Company in responding to the individual data request. Incremental costs include, but are not limited to, costs associated with the provision of data in a non-standard format as well as costs associated with responding to other individualized treatment requested by the customer.

6.5.9. Bill Verification Data

At the customer's request and at no charge, the Telephone Company will provide, within 30 days from receipt of a written request, additional bill verification data, as is readily available.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.10 Operator Transfer Service

Upon customer request, the Telephone Company will provide a list identifying Operator Services Access Points for use with Operator Transfer Service as specified in 6.2.3(A) (8) preceding.

Additionally, the Telephone Company will define the service areas of designated Operator Services Access Points and will identify the signalling capability of end offices in the service area.

6.6 Obligations of the Customer

In addition to the obligations of the customer set forth in 2. preceding the customer has certain specific obligations pertaining to the use of Switched Access Service. These obligations are as follows:

6.6.1 Report Requirements

Customers are responsible for providing the following reports to the Telephone Company, when applicable.

(A) Jurisdictional Reports

When a customer orders Switched Access Service for both interstate and intrastate use, the customer is responsible for providing reports as set forth in 2.3.10 preceding. Charges will be apportioned in accordance with those reports. The method to be used for determining the intrastate charges is set forth in 2.3.11 preceding.

(B) Default Percent Interstate Use (PIU) Report

When a customer orders Switched Access to an end office in the state, it must provide a projected percentage of intrastate use that will serve as a default PIU for the state. This figure will be used to apportion charges for usage measured at end offices to which the customer has not ordered capacity.

(C) Code Screening Reports

When a customer orders service class routing, trunk access limitation or call gapping arrangements, it must report the number of trunks and/or the appropriate codes to be instituted in each end office or access tandem switch, for each of the arrangements ordered.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Obligations of the Customer (Cont'd)6.6.1 Report Requirements (Cont'd)(D) 900 Access Service NXX Codes

All 900 NXX Code assignments and administration shall be in accordance with the North American Numbering Plan (NANP).

When ordering 900 Access Service, NXX Codes to be activated or deactivated must be provided to the Telephone Company at least 60 calendar days prior to the effective date of the change.* Customer assigned codes, for which an order has not been received, will be blocked.

* In a state where 900 NXX codes have not been activated, i.e., there is no existing customer or customer request, the initial customer request for service, due to required operational constraints, will require 6 months to complete. Subsequent customer requests in a state where 900 NXX code initialization has occurred will be subject to the normal 60 day service interval.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Obligations of the Customer (Cont'd)6.6.1 Report Requirements (Cont'd)(D) 900 Access Service NXX Codes (Cont'd)

Customers ordering 900 Access Service are required to provide both a field test number and a trouble referral contact number to the Telephone Company coincident with the order for service. The field test number will be utilized by the Telephone Company to place test calls to the Customer's premises. The referral contact number will be utilized by the Telephone Company to refer end user trouble reports to the appropriate customer.

6.6.2 On and Off-Hook Supervision

The customer facilities shall provide the necessary on and off-hook answer and disconnect supervision. For Toll Free and 900 Access Service which originates from end offices other than end offices with the customer identification function, and for Feature Group B, the customer shall provide answer off-hook signal upon completion of the outpulsed signaling sequence at his point of presence.

For Feature Group D and 900 Access Service from end offices with the customer identification function, the customer shall return answer off-hook signal when the called party answers.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Obligations of the Customer (Cont'd)6.6.3 Trunk Group Measurements Reports

With the agreement of the customer, trunk group data in the form of usage in CCS, peg count and overflow for its end of all access trunk groups, where technologically feasible, will be made available to the Telephone Company. These data will be used to monitor trunk group utilization and service performance and will be based on previously arranged intervals and format.

6.6.4 Design of Switched Access Services

When a customer orders Switched Access Service, it is the customer's responsibility to assure that sufficient access services have been ordered to handle its traffic.

6.6.5 Supervisory Signaling

The customer's facilities shall provide the necessary on-hook, off-hook answer and disconnect supervision. For 900 Access Service which originates from end offices other than equal access end offices with the customer identification function, and for Feature Group B, the customer shall provide answer off-hook signal upon completion of the outpulsed signaling sequence at his point of presence.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations

This Section contains the specific regulations governing the rates and charges that apply for Switched Access Service.

6.7.1 Types of Rates and Charges

There are threetypes of rates and charges that apply to Switched Access Service. These are monthly recurring rates, usage rates and nonrecurring charges. These rates and charges are applied differently to the various rate elements.

(A) Monthly Rates

Monthly rates are flat recurring rates that apply each month or fraction thereof that a specific rate element is provided. For billing purposes, each month is considered to have 30 days.

(B) Usage Rates

Usage rates are rates that apply only when a specific rate element is used. These are applied on a per access minute or per call basis. Access minute charges are accumulated over a monthly period.

(C) Nonrecurring Charges

Nonrecurring charges are one time charges that apply for a specific work activity (e.g., installation or change to an existing service). The types of nonrecurring charges that apply for Switched Access Service are: installation of service and service rearrangements.

(1) Installation of Service

Nonrecurring charges apply to each Switched Access Service installed.

In addition, nonrecurring charges apply when a signaling connection is installed for use with Feature Group D as specified in 6.8.1 following.

Certain nonrecurring charges applicable to the installation of Access Service consist of a "first" and "additional" charge. For each facility, line, or trunk ordered, the "first" charge applies to the first facility, line or trunk specified on the order, with the "additional" charge applied to each "additional" facility, line or trunk specified on the same order between the same locations.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(2) Installation of Optional Features

Nonrecurring charges apply for the installation of the various optional features available with the Switched Access Service Switched Transport rate element. The other optional features are installed at no additional cost to the customer other than the cost of the basic service (nonrecurring charge) with which the features are associated.

(3) Service Rearrangements

Service rearrangements are changes to existing services installed which do not result in either a change in the minimum period requirements as set forth in 5. preceding or a change in the physical location of the point of termination at a customer's premises or a customer's end user's premises. Changes in the physical location of the point of termination are treated as moves and described and charged for as set forth in 6.7.3 following.

The charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves an actual physical change to the service.

Administrative changes will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Access Service to the same customer (i.e., same customer remains responsible for all outstanding indebtedness for the Access Service). Administrative changes are as follows:

- Change of customer name, (i.e., the customer of record does not change but rather the customer of record changes its name --e.g., AT&T-Long Lines to AT&T Communications)
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Rearrangements (Cont'd)

- Change of agency authorization,
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction

All other service rearrangements will be charged for as follows:

- If the change involves the addition of an optional feature which has a separate nonrecurring charge, that nonrecurring charge will apply.
- A charge as specified following will apply on each transmission path reconfigured from:
 - SS7 signaling to MF signaling,
 - 64CCC to SS7 signaling, and
 - 64CCC to MF signaling
- For out of band signaling trunk conversions a charge as specified in 6.8.5 following will apply on each transmission path reconfigured for out of band signaling from MF signaling, or for MF signaling from out of band signaling.
- When out of band signaling or 64CCC is elected, the customer may add Calling Party Number (CPN), Charge Number (CN), Carrier Selection Parameter (CSP), and Access Transport Parameter (ATP) at no additional charge if these features are specified at the time out of band signaling or 64CCC is ordered for existing switched access trunks.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)

All other service rearrangements will be charged for as follows: (Cont'd)

- If the change involves a modification to a WATS Service, including the addition of, or modification to, optional features without separate nonrecurring charges or a retermination or rearrangement of an existing WATS Access Connection in the Central Office due to a customer initiated terminal equipment change, i.e., ground start to loop start, the Central Office Service Rearrangement charge as stated in 6.8.5 following will apply. When an optional feature is not required on each transmission path, but rather for an entire transmission path group, an end office or an access tandem switch, only one such charge will apply (i.e., it will not apply per WATS Access Connection).
- For all other changes, including the addition of, or modifications to, optional features without separate nonrecurring charges the Central Office Service Rearrangement charge as stated in 6.8.5 following will apply. When an optional feature is not required on each transmission path, but rather for an entire transmission path group, an end office or an access tandem switch, only one such charge will apply (i.e., it will not apply per transmission path).

(4) Connection Charge

The Switched Access Connection Charge recovers the costs of connecting the trunks/lines to the switch. These charges are in addition to any facility charges and are to be applied on a per line/per trunk basis.

(5) Service Order Charge

The Service Order Charge applies to every order issued except disconnect and record orders and is in addition to all other applicable nonrecurring charges.

Material formerly on this page now appears on Page 177.1.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(6) Service Rearrangements

Rearrangement charges as specified in 6.8.2.H following apply on a per termination basis for the following service rearrangements:

- a) rearranging an existing subtending service from one port to another in the same multiplexing arrangement;
- b) rearranging an existing subtending service from one multiplexing arrangement to another like multiplexing arrangement in the same wire center; and
- c) rearranging an existing service into a high capacity service multiplexing arrangement in the same wire center.
- d) rearranging an existing service to a Collocated Interconnection Cross-Connect Service or SPOT Bay Frame and Terminations, which are described in Section 19 following, in the same wire center;
- e) rearranging a Collocated Interconnection Cross-Connect Service or SPOT Bay Frame and Terminations, which are described in Section 19 following, to a Switched Access Service in the same wire center; and

When services are rearranged as described above, additional charges for the Rearrangement Charges may apply to all such rearranged services beyond the first without regard to their end-point locations, so long as they are all of the same service type, have the same date due, and are all being rearranged to the same multiplexing arrangement.

(D) Application of Rates

Local Switching rates are specific by type of service ordered. The specific application of Local Switching rates is dependent upon the originating minutes of use and terminating minutes of use by Feature Group or Basic Service Arrangement (BSA) Option.

Material on this page formerly appeared on Page 177.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Types of Rates and Charges (Cont'd)(D) Application of Rates (Cont'd)

The Local Switching rates set forth in 6.8.3(A) following.

- (1) Where Switched Access Service is used to carry traffic originated from a TRS Center, Switched Transport rates apply. Local Switching rates do not apply.
- (2) The following rate elements apply for FGA provided with a voice grade interface

Recurring Rate Elements

- Entrance Facility - 2-wire or 4-wire
- Direct-Trunked Transport, fixed and per mile, measured from the SWC to the DTO

Terminating Usage Rate Elements

- Tandem fixed MOU and per mile MOU rates apply from the DTO to the End Office where the call terminates
- Local Switching MOU

Originating Usage Rate Elements

- Local Switching MOU
- The IC rate applies to all Local Switching MOU

Material on this page formerly appeared on Pages 178A and 178B.
Material formerly on this page now appears on Pages 178A and 178A.1.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Types of Rates and Charges (Cont'd)

- (3) The following rate elements apply for FGA provided with a digital interface

Recurring Rate Elements

- Entrance Facility - DS1
- Direct-Trunked Transport, fixed and per mile, measured from the SWC to the DTO
- Multiplexer

Originating and Terminating Usage

- Local Switching MOU

If the facility terminates at a remote switch, tandem fixed and per mile per MOU may also apply. See 6.8

(E) Switched Transport Rate Elements(1) Entrance Facility

The Entrance Facility monthly rate provides for the communication path between a customer's premises and the SWC of that premises and is assessed based on the capacity of the facilities provided (e.g., Voice Grade, DS1, or DS3). When FGA Switched Access service is ordered, the Voice Grade Entrance Facility rate is assessed for each FGA service requested unless the customer requests an Entrance Facility of higher capacity. The Entrance Facility rate is assessed when the customer premises and the SWC are in the same building. The Entrance Facility rate is in addition to the rates assessed for Direct-Trunked Transport and Tandem Switched Transport.

Material formerly on this page now appears on page 178A.1
Material on this page formerly appeared on Pages 178 and 178B.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.1 Types of Rates and Charges (Cont'd)

(E) Switched Transport Rate Elements (Cont'd)

(6) Multiplexing

No multiplexing charge will apply if an individual circuit carrying trunks is at a DS1 level (Entrance Facilities and Direct-Trunked Transport) and terminating at a specific switch.

Material formerly on this page now appears on Page 178.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Types of Rates and Charges (Cont'd)(E) Switched Transport Rate Elements (Cont'd)(2) Direct-Trunked Transport

The Direct-Trunked Transport monthly rate provides for the transmission facilities between the SWC of the customer's facilities to the end office or access tandem based on the capacity of the facility requested, i.e. Voice Grade, DS1, or DS3. When FGA Switched Access service is ordered, the Voice Grade Direct-Trunked Transport rate is assessed for each FGA service requested unless the customer requests a Direct-Trunked Transport facility of higher capacity. There are two rates that apply: a fixed rate and a rate per mile. The Direct-Trunked Transport rate is in addition to the Entrance Facility rate. Mileage measurement is described in 6.7.8 following.

(3) Tandem Transport Charge

The Tandem Transport Charge is assessed on a per minute of use basis. There are two rates that apply: a fixed rate and a rate per mile/per minute. The Tandem Transport rate is in addition to the Entrance Facility rate. Mileage measurement is described in 6.7.8 following.

(4) Tandem Switching

The Tandem Switching rate is assessed on a per minute of use basis and is applicable to all Switched Access minutes of use utilizing an access tandem via Tandem Switched Trunk. The Tandem Switching rate is in addition to the Tandem Transmission rate and the rates associated with the Entrance Facility.

(5)

Material on this page formerly appeared on Pages 178 and 178A.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.2 Change of Feature Group Type

Changes from one type of Feature Group to another will be treated as a discontinuance of one type of service and a start of another. Nonrecurring charges will apply, with the following exception.

- (1) When a customer upgrades a Feature Group A or B service to a Feature Group D service, the nonrecurring charge will not apply if the following conditions are met:
 - (a) The same customer premises is maintained, and
 - (b) The orders for the disconnect of the FGA or FGB service and the start of FGD service are placed with the Telephone Company at the same time, and
 - (c) The customer requests the FGA or FGB service be disconnected no more than 90 days after the start of FGD service.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.3 Moves

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

- The point of termination at the customer's premises or FGA
- FX/ONAL end user's 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.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring charge for the capacity affected. There will be no change in the minimum period requirements.

(B) Moves to a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.4 Measuring Access Minutes

Customer traffic to end office switches will be measured by the Telephone Company at end office switches or access tandem switches. Originating and terminating calls will be measured by the Telephone Company to determine the basis for computing chargeable access minutes. For terminating calls over FGA, FGB and FGD, and for originating calls over FGA - MTS/WATS-Type, FGB and FGD, the measured access minutes are the chargeable access minutes. For originating calls over FX/ONAL, chargeable originating access minutes are derived from recorded minutes in the following manner.

Step 1: Obtain recorded originating minutes and messages (measured as set forth in (A) following for FX/ONAL FGA) from the appropriate recording data.

Step 2: Obtain the total attempts by dividing the originating measured messages by the completion ratio. Completion ratios (CR) are obtained separately for the major call categories such as DDD, operator, Toll Free Data Base Access Service, 900, directory assistance and international from a sample study which analyzes the ultimate completion status of the total attempts which receive acknowledgment from the customer. That is Measured Messages divided by Completion Ratio equals Total Attempts.

Step 3: Obtain the total non-conversation time additive (NCTA) by multiplying the total attempts (obtained in Step 2) by the NCTA per attempt ratio. The NCTA per attempt ratio is obtained from the sample study identified in Step 2 measuring the non-conversation time associated with both completed and uncompleted attempts. The total NCTA is the time on a completed attempt from customer acknowledgment of receipt of call to called party answer (set up and ringing) plus the time on an uncompleted attempt from customer acknowledgment of call until the access tandem or end office receives a disconnect signal (ring - no answer, busy or network blockage). That is, Total Attempts times Non-Conversation Time per Attempt Ratio equals Total NCTA.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.4 Measuring Access Minutes (Cont'd)

Step 4: Obtain total chargeable originating access minutes by adding the total NCTA (obtained in Step 3) to the recorded originating measured minutes (obtained in Step 1). That is, Measured Minutes plus NCTA equals Chargeable Originating Access Minutes.

Following is an example which illustrates how the chargeable originating access minutes are derived from the measured originating minutes using this formula.

Where:	Measured Minutes (M. Min.)	=	7,000
	Measured Messages (M. Mes.)	=	1,000
	Completion Ratio (CR)	=	.75
	NCTA per Attempt	=	.4

$$(1) \text{ Total Attempts} = \frac{1,000 (\text{M. Mes.})}{.75 (\text{CR})} = 1,333.33$$

$$(2) \text{ Total NCTA} = .4 (\text{NCTA per Attempt} \times 1,333.33) = 533.33$$

$$(3) \text{ Total Chargeable Originating Access Minutes} = 7,000 (\text{M. Min.}) + 533.33 (\text{NCTA}) = 7,533.33$$

FGA access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each line or hunt group, and are then rounded up to the nearest access minute for each line or hunt group.

FGB and FGD access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.4 Measuring Access Minutes (Cont'd)(A) Feature Group A Usage Measurement

For originating calls over FGA, usage measurement begins when the originating FGA entry switch receives an off-hook supervisory signal forwarded from the customer's point of termination. (Where FGA is used for MTS/WATS-Type services, this off-hook signal is generally provided by the customer's equipment. Where FGA is used for FX/ONAL services, the off-hook signal is generally forwarded by the customer's equipment when the called party answers).

The measurement of originating call usage over FGA ends when the originating FGA entry switch receives an on-hook supervisory signal from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For terminating calls over FGA, usage measurement begins when the terminating FGA entry switch receives an off-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has answered. The measurement of terminating call usage over FGA ends when the terminating FGA entry switch receives an on-hook supervisory signal from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.4 Measuring Access Minutes (Cont'd)(B) Feature Group B Usage Measurement

For originating calls over FGB, usage measurement begins when the originating FGB entry switch receives answer supervision forwarded from the customer's point of termination, indicating the customer's equipment has answered.

The measurement of originating call usage over FGB ends when the originating FGB entry switch receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For terminating calls over FGB, usage measurement begins when the terminating FGB entry switch receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.

The measurement of terminating call usage over FGB ends when the terminating FGB entry switch receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.4 Measuring Access Minutes (Cont'd)(C) Feature Group D Usage Measurement

For originating calls over FGD with multifrequency address signaling, usage measurement begins when the originating FGD entry switch receives the first wink supervisory signal forwarded from the customer's point of termination. For originating calls over FGD with out of band signaling, usage measurement begins when the last point of switching sends the initial address message to the customer.

The measurement of originating call usage over FGD ends when the originating FGD entry switch receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For terminating calls over FGD to services other than Toll Free, 900 or Directory Assistance, Total Terminating FGD usage is directly measured. Jurisdictional assignment for FGD is imputed for calls except for Directory Assistance Services. When assignment is imputed the Telephone Company will provide to the Carrier the factors used.

For terminating calls over FGD, the measurement of access minutes begins when the terminating FGD entry switch receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.

The measurement of terminating call usage over FGD ends when the terminating FGD entry switch receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For purpose of assessing the Operator Transfer Service charge as specified in 6.1.2 (5) preceding and 6.8.6 following, a call is considered transferred when the Telephone Company operator activates the switch transferring the call to the designated customer.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.4 Measuring Access Minutes (Cont'd)(D) 900 Access Service Usage Measurement

Usage measurement from end offices without the customer identification function begins when the originating end office switch receives off-hook supervision from the customer's point of termination indicating the transmitted digits have been received. The usage measurement ends when the originating end office receives on hook disconnect supervision from either the customer's point of termination or the originating end user's end office, indicating the originating end user has disconnected whichever is recognized first by the end office.

Usage measurement from end offices with the customer identification function begins when the end office switch receives the first wink supervisory signal forwarded from the customer's point of termination. The usage measurement ends when the originating end office receives disconnect supervision from either the originating end user's office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the end office.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

RESERVED FOR FUTURE USE.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

RESERVED FOR FUTURE USE.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

RESERVED FOR FUTURE USE.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.5 Application of Rates for Extension Service

Feature Group A Switched Access Service is available with extensions, i.e., additional terminations of the service at different building(s) in the same state or a different state. Feature Group A extensions in the same state, same LATA are charged for under The Telephone Company's Local General Services Tariffs.

Extensions in different states, same LATA and different states different LATAs are provided and charged for as Special Access as set forth in The Verizon Telephone Companies Tariff F.C.C. No. 1.

6.7.6 Measured Local Use Credit

Calls from end users to the seven digit local telephone numbers associated with Feature Group A Switched Access Service are subject to Telephone Company Local General Tariff charges, as well as any other applicable charges for customer services. The monthly bills rendered to customers for their Feature Group A Switched Access Service will include a credit to reflect any measured local use charges collected from their customers under the Telephone Company's Local General Tariffs.

6.7.7 Minimum Periods

The minimum service period for Switched Transport entrance facilities and direct trunked transport are as follows:

DS1:	2 months
DS3	12 months

All other switched access service is provided for a minimum period of one month.

When service is disconnected prior to the expiration of the minimum period, charges are applicable for the balance of the minimum period. Customers may at any time change their service payment option to a term payment plan without assessment of the minimum service charge.

Material formerly on this page now appears on Page 190A.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.8 Mileage Measurement

The Tandem Switched Transport rate category is comprised of a Tandem Transport fixed MOU rate, Tandem Transport Per Mile/Per MOU rate, and a Tandem Switching MOU rate. The fixed rate provides the circuit equipment at the end of the interoffice transmission links. The per mile rate provides 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 shall be measured as airline mileage between the customer's serving wire center and the tandem using the V&H coordinates method. The Tandem Switching rate provides for tandem switching facilities. The Tandem Switched Transport rate is the sum of the fixed rate, the per mile rate, and the Tandem Switching MOU rate.

To determine the rate to be billed, first determine the mileage using the V&H coordinates method, as set forth in the Exchange Carrier Association Tariff F.C.C. No. 4, and apply the rates. When the calculation results in a fraction of a mile, always round up to the next whole mile before applying the rates.

Exceptions to the mileage measurement rules are as follows:

- (A) Mileage for Feature Group A Switched Access Service will be calculated on an airline basis, using the V&H coordinates method, between the end office switch where the Feature Group A switching dial tone is provided. Mileage is then measured from the DTO to the end office where the call is terminated. This mileage measurement is usage sensitive.
- (B) Tandem Transport mileage calculated from the customer's SWC to the end office or host office. The associated Direct-Trunked Transport (DTT) mileage will be measured from the SWC to the tandem and the tandem or common mileage will be measured from the tandem to the end office or host office. The tandem or common mileage is usage sensitive. The DTT is rated monthly.
- (C) Mileage measurement to a remote switching module (RSM) is calculated on an airline basis using the V&H coordinates method, between the end office that serves as the host switch for the RSS and the customer's SWC for the Switched Access provided. This mileage is usage sensitive. (See 6.7.10 following).

Material on this page formerly appeared on Page 190.
Material formerly on this page now appears on Page 190A.1.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations

6.7.8 Mileage Measurement (Cont'd)

(D) A serving wire center associated with a customer's designated premises used as a mileage measuring point may be either the wire center from which the customer would normally obtain dial tone or an alternate serving wire center as described in 6.3.2(C) preceding.

6.7.9 Shared Use High Capacity Services - Entrance Facility

Shared use occurs when Special Access Service and Switched Access Service are provided over the same High Capacity service through a common interface. The facility will be ordered, provisioned and rated at Switched Access (i.e., Entrance Facility, Direct-Trunked Transport, as appropriate and Multiplexing, as appropriate) between the customer designated facilities and the Telephone Company SWC or Hub. When the customer chooses to use a portion of the available capacity for providing Special Access Service, then as each circuit is activated for Special Access Service, the Switched Access High Capacity Entrance Facility, Direct-Trunked Transport, and multiplexer rates will be adjusted accordingly (e.g., for a VG capacity Special Access 1/24th of a DS1 service, 1/672nd of a DS3 service, etc.). Special Access Service rates and charges, as set forth in the Telephone Company Tariff or Product Guide for detariffed services, will apply for each circuit of the shared use facility that is used to provide a Special Access Service when the original service is ordered as Switched Access.

Material on this page formerly appeared on Page 190A

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.9 Shared Use High Capacity Services - Entrance Facility (Cont'd)

The nonrecurring charge that applies when the shared use facility is installed will be the nonrecurring charge associated with the appropriate Switched Access Services. Switched Access Service rates and charges as set forth in 6.8 following, will apply for each circuit of the Shared Use Facility that is used to provide a Switched Access Service when the base service is ordered as Switched Access. The spare channels will be assigned to either Switched Access or Special Access for rating purposes depending on how the customer ordered the service: i.e., Switched Access or Special Access respectively.

The customer must place an order for each individual Switched or Special Access Service using the Shared Use Facilities and specify the circuit facility assignment for each service.

When Switched Access Service Direct-Trunked Transport is provided using a circuit of the Shared Use Facility to a Hub, High Capacity rates and charges will apply for the facility from the customer designated premises to the Hub and individual service rates and charges will apply from the Hub to the Access Tandem or End Office. The rates and charges that will apply to the portion from the Hub to the Access Tandem or End Office will be dependent on the specific type of Switched Access Service that is provided (i.e., Voice Grade, DS1 or DS3). The rates and charges that will apply to the portion from the customer designated facilities to the Hub will be prorated based on the capacity of the Shared Use facility to the Hub. The applicable rates and charges will include Entrance Facility and Direct-Trunked Transport rates and charges, if applicable, and multiplexing, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply for the appropriate circuit type.

Should the customer displace the entire capacity of the Switched Transport Service with Special Access Service, the Switched Transport Service will, for billing purposes, be considered disconnected. (Any future capacity due to a customer's disconnect of Switched Access Service will be considered Telephone Company inventory.) Should the customer subsequently order Switched Transport Service, this will be treated as a new order and full rates and charges for the Switched Access Service type ordered will apply.

6.7.10 Host/Remote

Direct-Trunked Transport (DTT) may be ordered to a host switch. DTT rates will apply to the host switch. For service to a remote switch, fixed and per mile/per MOU rates will apply between the host and remote switches. No tandem switching will apply.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.10 Host/Remote (Cont'd)

Tandem transport may also be ordered to a host switch. The transport will be measured as tandem fixed and per mile/per MOU from the tandem to the host. Tandem switching will apply. For service to a remote switch, a fixed and per mile/per MOU charge will also apply from the host to the remote switch subtending the host.

FGA terminating service will be measured from the Dial Tone Office to the host and the tandem fixed and per mile/per MOU charge will apply. If the call is made to the remote, another fixed and per mile/per MOU charge will apply from the host to the remote subtending the host. Tandem switching will not apply.

A nonrecurring Remote Translation charge will apply for those customer requests which require a unique routing arrangement. This charge will apply per Remote Trunk Group, per occurrence.

Requests for service at remote offices will be accepted where the necessary space and technical capabilities exist.

6.7.11 Shared Network Arrangement

Each customer entering into a Shared Network Arrangement is solely responsible to the Telephone Company for charges associated with that customer's portion of the shared network. Disconnection of service by the host subscriber does not relieve another user of the network of any obligation to pay access charges associated with the portion of the shared network to which that user subscribes. Billing for services and facilities will continue until a disconnect request from the service user has been received by the Telephone Company. The host subscriber is solely responsible for notifying the connecting service user in the event of disconnection of the host service which affects that portion of the shared network service to which the user has subscribed.

For administrative purposes, one "Arrangement" under the Shared Network Arrangement offering shall be limited to the agreement between one Host Subscriber and one Service User permitting the Service User to connect a specified number of subtending circuits to one specified multiplexer on the Host's service. Agreements between one Host Subscriber and two (or three, etc.) Service Users shall be deemed to comprise two (or three, etc. respectively) separate "Arrangements". However, an agreement to expand the scope of an existing Arrangement by subsequently increasing the number of subtending facilities on the same multiplexer shall not constitute a new or separate "Arrangement".

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.11 Shared Network Arrangement (Cont'd)

A Shared Network Arrangement shall be established between a Host Subscriber and a Service User upon the completion of the service order for the first arrangement. No Shared Network Arrangement shall be deemed to be in effect until at least one subtending facility has been installed for the Service User. A Shared Network Arrangement shall be deemed cancelled when the last subtending facility has been disconnected.

A Processing charge will apply for handling each service order in a Shared Network Arrangement. The Processing Charge applies in addition to all other applicable rates and charges.

6.7.12 Facility Hubs

A customer has the option of ordering high capacity facilities (i.e., DS1 or DS3) to a facility Hub for distributing or channelizing to individual services requiring lower capacity facilities (e.g., Voice Grade or DS1).

When high capacity facilities are provided between a customer premises and a facility Hub, the facility will not be considered an end-to-end service until an associated channelized service is installed. The facility Hub will not be considered as a customer premises.

Different locations may be designated by the Telephone Company as Hubs for different facility capacities, e.g., multiplexing from DS3 to DS1 may occur at one location while multiplexing from DS1 to Voice Grade may occur at a different location. When ordering, the customer will specify the desired multiplexing Hub(s) selected from the National Exchange Carrier Association Tariff F.C.C. No. 4. This Tariff identifies the type(s) of multiplexing functions available and the serving wire centers at which they are available.

The types of multiplexing arrangements available include the following:

- from higher to lower bandwidth
- from high capacity to voice grade channels

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

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Rate Regulations (Cont'd)6.7.12 Facility Hubs (Cont'd)

The Telephone Company will commence billing the monthly rate for the facility to the Hub on the date specified by the customer on the service order. Additional individual services utilizing these facilities may be installed coincident with the installation of the facility to the Hub, or may be ordered and/or installed at a later date, at the option of the customer. The customer who orders the High Capacity Service must order all associated individual Access Channelized Services. The customer will be billed for a high capacity Entrance Facility, Direct-Trunked Transport, Channel Mileage (when applicable), and the multiplexing arrangements at the time the facility is installed. Additional individual service rates (by service type) will apply for an Entrance Facility for additional Direct-Trunked Transport (as required) for each subsequent channelized service. These will be billed to the customer as each individual service is installed.

In addition, Hubbing may be provided at an end office if all the circuits to be multiplexed are on an individual Direct-Trunked facility and equipment is available.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rates and Charges6.8.1 Access ConnectionsUSOC

(A) Interface Group Service

Interface Groups:

Group 1, Two-Wire path with Loop signaling	TPP1X
Group 2, Four-Wire path with Loop signaling	TPP2X
Group 3, Group level path with SF signaling	TPP3X
Group 4, Supergroup level path with SF signaling	TPP4X

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rates and Charges (Cont'd)6.8.1 Access Connections (Cont'd)USOC(A) Interface Group Service (Cont'd)

Interface Groups: (Cont'd)

Group 5, Mastergroup level path with SF signaling	TPP5X
Group 6, DS1 level path with Bit Stream signaling	TPP6X
Group 7, DS1C level path with Bit Stream signaling	TPP7X
Group 8, DS2 level path with Bit Stream signaling	TPP8X
Group 9, DS3 level path with Bit Stream signaling	TPP9X
Group 10, DS4 level path with Bit Stream signaling	TPPAX

(B) Interface Group Nonchargeable
Optional FeaturesFID(1) Supervisory Signaling

DX Supervisory Signaling arrangement	
- Per Transmission Path*	NCI ++DX+
SF Supervisory Signaling arrangement	
- Per Transmission Path**	NCI ++SF+
E&M Type I Supervisory Signaling arrangement	
- Per Transmission Path*	NCI ++EA+
E&M Type II Supervisory Signaling arrangement	
- Per Transmission Path*	NCI ++EB+

* Available with Interface Groups 1 and 2.

** Available with Interface Groups 2 and 6 through 10.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rates and Charges (Cont'd)6.8.1 Access Connections (Cont'd)(B) Interface Group Nonchargeable Optional Features (Cont'd)FID(1) Supervisory Signaling(Cont'd)E&M Type III Supervisory
Signaling arrangement

- Per Transmission Path*

NCI TTECT

Tandem Supervisory
Signaling arrangement

- Per Transmission Path

NCI TTEXT

(2) Customer Specified Entry Switch
Receive LevelCustomer specification of the receive
transmission level at the first
point of switching within a range
acceptable to the Telephone Company

- Per Transmission Path**

TLV

(3) Customer Specification of Local
Transport TerminationFour-wire termination in lieu of
Two-wire termination

- Per Transmission Path ***

NC S+T+

* Available with Interface Group 2 for FGD.

** Available with Interface Groups 2 through 10 for FGA and FGB. The range of
transmission levels which may be specified is described in Technical
Reference TR-NPL-000334.

*** Available with FGB with Type B Transmission Performance.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rates and Charges (Cont'd)6.8.2 Switched Transport (Cont'd)

(A) Entrance Facilities			
<u>Voice Grade</u>	<u>Monthly Rate</u>	<u>Nonrecurring</u>	
2-Wire (EF2X2, EFG2X)			
- Non-price band	\$14.00	\$1.00	
- Price band **	28.70	1.00	
4-Wire (EF2X4, EFG4X)			
- Non-price band	26.02	1.00	
- Price band **	53.00	1.00	
DS1, per Rearrangement (EF2X4, EFGDX)	190.00	275.00	
DS3			

- Per point of termination*

DS3 - Channel Terminations - Volume	Monthly Rate, Per CT	Nonrecurring Charge	USOC
1	\$2,310.00	\$1.00	TYFAX, TYFBX, EF2CX, EF2TX
2	2,100.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
3	1,650.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
4	1,550.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
5	1,500.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
6	1,450.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
7	1,400.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
8	1,350.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
9	1,300.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
10	1,250.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
11	1,200.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
12	1,090.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
13	1,260.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
14	1,240.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
15	1,230.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
16	1,220.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
17	1,200.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
18	1,190.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
19	1,175.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
20	1,150.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
21	1,140.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
22	1,120.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
23	1,105.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
24	1,101.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX
25 and Over	1,100.00	1.00	TYFAX, TYFBX, EF2CX, EF2TX

* See F.C.C. No. 1, Section 25.1.4.D for term discounts.

** Price band information can be found in F.C.C. Tariff No. 1, Section 14.7.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rates and Charges (Cont'd)6.8.2 Switched Transport (Cont'd)(B) Tandem Switching

	<u>Per MOU</u>	
Tandem Switching - Toll Free		(C)
Data Base Access Service Originating	\$0.001000	(R)
Tandem Switching - Other Than Toll		(C)
Free Data Base Access Service		(C)
Originating	\$0.001574	
Tandem Switching - Terminating to		
Verizon End Office	0.000000	
Tandem Switching - Terminating to		
Third Party	0.001574	
	<u>Fixed</u>	<u>Per Mile</u>
Tandem Transport - Other Than Toll		(C)
Free Data Base Access Service		(C)
Originating	\$0.000000	\$0.000002
Tandem Transport - Terminating		
to Verizon End Office	0.000000	0.000000
Tandem Transport - Terminating		
to Third Party	0.000000	0.000002
Host/Remote - Other Than Toll		(C)
Free Data Base Access Service		
Originating - Per MOU	0.000000	0.000000 (C)
- Dedicated Tandem Trunk Port Charge		
- per Trunk (PT8NX)	12.50	

(C) Direct-Trunked Transport

	<u>Fixed</u>	<u>Per Mile</u>
(1) Voice Grade		
(1YTXS, 1YTES)		
- Non-price band	\$16.93	\$3.00
- Price band *	20.44	4.00
(2) DS1	85.00	24.25
(1YTXS, 1YTCS)		
(3) DS3	950.00	185.00
(1YTXS, 1YTDS, 1YTOS)		

(D) Multiplexing

	<u>Nonrecurring Charge</u>	<u>Per Month</u>
per arrangement		
DS1 to Voice Grade	-	\$210.00
(MKW1X)		
DS3 to DS1	1.00	900.00
(MKW3X, MJW3X)		

* Price band information can be found in F.C.C. Tariff No. 1, Section 14.7.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rates and Charges (Cont'd)6.8.2 Switched Transport (Cont'd)(D) Multiplexing (Cont'd)

The following term discounts are available. See F.C.C. No. 1, Section 25 for full plan details.

<u>Service Type</u>	<u>Commitment Period</u>	<u>Discount Percentage*</u>
Switched DS1	2 Year	10% off Mo-Mo Rate
	3 Year	20% off Mo-Mo Rate
	5 Year	30% off Mo-Mo Rate
	7 Year	35% off Mo-Mo Rate
Switched DS3	3 Year	10% off Base Rate
	5 Year	35% off Base Rate

Nonrecurring
Charge

(E) Shared Network Arrangement

Processing Charge, Per Service Order	40.00
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(F) Switched Access Connection Charge

Per Line or Trunk	1.00
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(G) Service Order Charge

Per Service Order	1.00
-------------------	------

(H) Service Rearrangement

		<u>USOC</u>
- Per Rearrangement	\$50.00	NRBOK

(I) Per Remote Trunk Group

Per Occurrence	300.00
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* See F.C.C. No. 1, Section 25.1.4.D for term discounts.
Material on this Page formerly appeared on page 194A.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rates and Charges (Cont'd)6.8.2 Switched Transport (Cont'd)

(J) <u>Common Channel Signaling Access Service</u>	<u>Rates Per Minute of Use</u>	(R)
STP Access Mileage Per month, per mile	\$1.50	
Toll Free Data Base Access Service (available with Feature Group D equipped with Out of Band Signaling)	Rate	
Basic Query Charge - Per Query	\$.000200	(R)
<u>Toll Free Data Base Vertical Feature Package (VFP)</u> (available with Toll Free Data Base Basic Access Service) VFP Charge - Per Query	<u>Rate</u> \$.000000	
(K) <u>Alternate Serving Wire Center</u> per point of termination DS1 DS3 (Optical or Electrical)	Monthly <u>Rate</u> \$ 25.00 250.00	

6.8.3 Local Switching

(A) <u>Local Switching - Per Mou</u>	<u>Rates Per Access Minute</u>	(R)
LS1-Feature Group A/ LS1-Lineside BSA		
-Originating	\$.02	
-Terminating	.000000	
LS2-Feature Group B & D Toll Free Data Base Access Service		
Originating	.000000	(R)
-Other Than Toll Free Data Base Access Service Originating	.008610	
-Terminating	.000000	
LS2-Trunkside BSA -Toll Free Data Base Access Service		
Originating	.000000	(R)
-Other Than Toll Free Data Base Access Service Originating	.008610	
-Terminating	.000000	

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rates and Charges (Cont'd)6.8.3 Local Switching (Cont'd)

(B) Trunk Port

	USOC	Monthly Rate
Dedicated Trunk Port**, - per Trunk	PT8VX	\$ 11.25
Shared End Office Trunk - per minute of use		
- Toll Free Data Base Access Service Originating		0.000000
- Other Than Toll Free Data Base Access Service Originating		0.001688
- per minute of use - Terminating		0.000000
Composite Terminating End Office Charge (CTEOC)		0.000000

(1) Transitional Terminating Access Charge*

Per Minute of Use	\$0.002338
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* The Transitional Terminating Access Charge is applicable from July 1, 2012 through June 30, 2013. This charge will be eliminated July 1, 2013.

** Rate will only apply to the portion associated with originating usage.

(C)
(C)

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rates and Charges (Cont'd)6.8.3 Local Switching (Cont'd)

(F) Common Switching Nonchargeable Optional Features

Automatic Number Identification (available with FGB and FGD)

- Per Transmission Path Group

Up to 7-Digit Outpulsing of Access Digits to customer (available with FGB)

- Per Transmission Path Group

Service Class Routing (available with FGD)

- Per Transmission Path Group

Alternate Traffic Routing (available with FGB and FGD)

- Per Transmission Path Group

Call Denial on Line or Hunt Group (available with FGA)

- Per Transmission Path or Transmission Path Group

Service Code denial on Line or Hunt Group (available with FGA)

- Per Transmission Path or Transmission Path Group

Hunt Group Arrangement (available with FGA)

- Per Transmission Path Group

Uniform Call Distribution Arrangement (available with FGA)

- Per Transmission Path Group

Nonhunting Number for use with Hunt Group Arrangement or Uniform Call Distribution Arrangement (available with FGA)

- Per Transmission Path

Toll Billing Exception (available with FGA)

- Per Transmission Path

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rates and Charges (Cont'd)6.8.3 Local Switching (Cont'd)

(F) Common Switching Nonchargeable Optional Features (Cont'd)

End Office End User Line Service
Screening for use with WATS Access Line
Service (available with FGA, FGB and FGD)

- Per WATS Access Line

Hunt Group Arrangement for use with WATS
Access Line Service (available with FGA,
FGB and FGD)

- Per WATS Access Line Group

Uniform Call Distribution Arrangement for
use with WATS Access Line Service
(available with FGA, FGB and FGD)

- Per WATS Access Line Group

Nonhunting Number for use with Hunt Group
Arrangement or Uniform Call Distribution
Arrangement for use with WATS Access
Line Service (available with FGA, FGB
and FGD)

- Per WATS Access Line

Calling Party Number (CPN)

- Per end office per
trunk group*

Charge Number (CN)

- Per end office per
trunk group*

Carrier Selection Parameter (CSP)

- Per end office per
trunk group* ++

Access Transport Parameter (ATP)
(Available with FGD equipped with
out of band signaling)

- Per end office per
trunk group

NOTES:

* Available only on originating FGD.

++ Available only at selected Telephone Company switches.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rates and Charges (Cont'd)6.8.3 Local Switching (Cont'd)

(G) Transport Termination Nonchargeable Options

(1) Line Side Terminations (For FGA)

Two-Way Operation

- Dial Pulse with Loop Start
- Dial Pulse with Ground Start
- DTMF with Loop Start
- DTMF with Ground Start

Terminating Operation

- Dial Pulse with Loop Start
- Dial Pulse with Ground Start
- DTMF with Loop Start
- DTMF with Ground Start

Originating Operation

- Loop Start
- Ground Start

(2) Trunk Side Terminations
(For FGB and FGD)

Standard Trunk
for Originating,
Terminating or Two-
Way operation
(available with FGB
and FGD)

Rotary Dial Station
Signaling Trunk
(available with FGB)

Operator Trunk, Full
Feature Arrangement
(available with FGD)

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Rates and Charges (Cont'd)6.8.3 Local Switching (Cont'd)

(G) Transport Termination Nonchargeable Options (Cont'd)

	<u>FID</u>
(3) Line Side Terminations for WATS Access Connections	
Originating Only Loop Start, Line Side Connection, with DTMF Address Signaling	
- Per Transmission Path	NC +++ R
Originating Only Loop Start, Line Side Connection, with Dial Pulse Address Signaling	
- Per Transmission Path	NC +++ N
Originating Only Ground Start, Line Side Connection, with DTMF Address Signaling	
- Per WATS Access Connection	NC +++ 5
Originating Only Ground Start, Line Side Connection, with Dial Pulse Address Signaling	
- Per WATS Access Connection	NC +++ P
Terminating Only Loop Start, Line Side Connection	
- Per WATS Access Connection	NC +++ U
Terminating Only Ground Start, Line Side Connection	
- Per WATS Access Connection	NC +++ V

6.8.4 WATS/Toll Free Connections

Monthly rate 2-Wire WATS (only)	\$24.97 per line
Monthly rate 2-Wire Toll Free (only)	\$19.98 per line
Monthly rate 4-Wire WATS/Toll Free	ICB per line
Installation 2-Wire WATS/Toll Free	\$85.91 per line
Installation 4-Wire WATS/Toll Free	ICB per line

6.8.5 Central Office Service Rearrangement Charge \$37.96 per
line/trunk6.8.6 Operator Transfer Service Rates per call
- Per Call Transferred \$.25