

**TABLE OF CONTENTS**

	<u>Page No.</u>
<b>6. Switched Access Service (Cont'd)</b>	
<b>6.3 Local Switching Optional Features</b>	156
6.3.1 Common Switching Optional Features	156
6.3.2 Transport Termination Optional Features	164
6.3.3 Dedicated Access Line Termination Optional Features	166
<b>6.4 Data Base Services</b>	166.1
6.4.1 800 Service	166.1
<b>6.5 Telecommunications Relay Services Provider Transport</b>	166.5
<b>6.6 Obligations of the Telephone Company</b>	167
6.6.1 Network Management	167
6.6.2 Design and Traffic Routing of Switched Access Service	167.1
6.6.3 Provision of Service Performance Data	168
6.6.4 Trunk Group Measurement Reports	168
6.6.5 Determination of Number of Transmission Paths	169
6.6.6 Determination of Number of End Office Transport Terminations	169
6.6.7 Design Blocking Probability	169.1
<b>6.7 Obligations of the Customer</b>	172
6.7.1 Report Requirements	172
6.7.2 Supervisory Signaling	172.1
6.7.3 Trunk Group Measurement Reports	173
6.7.4 Design of Switched Access Services	173
6.7.5 Tandem Routed Percent Factor	173

(D)

## ACCESS SERVICE

### 5. Ordering Options for Switched and Special Access Service (Cont'd)

#### 5.2 Access Order (Cont'd)

- When a customer desires Switched Access Service to an end office that is a remote switching office, the customer must order to the host office which controls the remote switching office since all traffic to and/or from a remote switching office must be routed through the host office. The customer must also provide the Telephone Company an estimate of the amount of traffic it will generate to and/or from each end office served by that host.

(D)  
|  
(D)

- For the Inward Assistance option ordered in conjunction with FGD, as described in 6.1.3(A)(4) following, the customer must specify the number of trunks desired between its premises and the Telephone Company designated Operator Inward Service Switch (i.e., the OSS). The trunks may be two-way or terminating only. Trunks provided with the Inward Assistance option may also be used to carry other operator traffic types (e.g., 0-Transfer traffic). Where the OSS access tandem also functions as a switched access tandem, the customer may combine other switched traffic over the same trunks.<sup>1</sup>

<sup>1</sup> Effective July 28, 2016, Inward Assistance has been discontinued by the Telephone Company.

## ACCESS SERVICE

### 5. Ordering Options for Switched and Special Access Service (Cont'd)

#### 5.2 Access Order (Cont'd)

- When ordering Inward Assistance trunks as specified preceding, the customer must also specify the type of signaling desired. Inward Assistance trunks may be equipped with either Equal Access Signaling or Operator Services Signaling.<sup>1</sup> (D)
- When ordering FGD Switched Access Service that will be transported over Telecommunications Relay Services Provider Transport facilities, the TRS Provider will specify the number of transmission paths in quantities of channels in the order for service. (D)
- When Switched Access is ordered for use with Data Base Services, as described in Section 6.4, direct routed trunks can only be provided when the end office is equipped as a Service Switching Point (SSP). All traffic originating from an end office not equipped as an SSP must be routed via an access tandem equipped as an SSP.
- When Data Base Services are ordered separately (i.e., not in conjunction with Switched Access), the customer must order Signal Transfer Point (STP) Access Service in LATA 358 (Chicago, Illinois) for 800 service. STP Access Service is described in Section 6.1.3(A)(4)(b).
- For 500 Access Service, the customer shall order in the same manner which is set forth preceding for ordering Feature Group D, except that customers may only request Direct Transport to those end offices designated by the Telephone Company as 500 Access Service screening offices. When new NXX(s) are to be opened in the state or when existing NXX(s) are to be deleted, and such change is to occur coincident with the service date established for the order, the customer shall provide such information when placing the order for additional capacity (i.e., busy hour minutes of capacity or quantities of trunks), the customer shall notify the Telephone Company of the change as set forth in Section 6.6.1(D). All 500 number assignments and administration shall be in accordance with the North American Numbering Plan (NANP).
- For 900 Access Service, the customer shall order in the same manner which is set forth preceding for ordering Feature Group D, except that customers may only request Direct Transport to those end offices designated by the Telephone Company as 900 Access Service screening offices. When new NXX(s) are to be opened in the state or when existing NXX(s) are to be deleted, and such change is to occur coincident with the service date established for the order, the customer shall provide such information when placing the order for additional capacity (i.e., quantities of trunks), the customer shall notify the Telephone Company of the change as set forth in Section 6.6.1(D). All 900 number assignments and administration shall be in accordance with the North American Numbering Plan (NANP).

<sup>1</sup> Effective July 28, 2016, Inward Assistance had been discontinued by the Telephone Company.

**ACCESS SERVICE**

**6. Switched Access Service (Cont'd)**

**6.1 General (Cont'd)**

**6.1.1 Switched Access Service Arrangements and Manner of Provision (Cont'd)**

**(E) Circuit Switched - Trunk 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 uniform 101XXXX access code (where end office switches are suitably equipped), for the customer's use in originating and terminating communications. A more detailed description of FGD Access is provided in 6.2.4 following.

(D)  
|  
(D)

Feature Group D Features	Bundled		Unbundled	
	Chargeable	Nonchargeable	Chargeable	Nonchargeable
Alternate Traffic Routing		X		X
Automatic Number Identification		X	X	
Band Advance Arrangement for Use with DALs		X		X
Call Gapping Arrangement		X		X
Cut Through	X		X	
Dual Carrier Tandem Routing		X		X
End Office End User Line Service for Use with DAL	X		X	
Regular MLHG for Use with DALs		X	X	
International Carrier Option		X		X
Nonhunting Number for MLHG or UCD for Use with DALs		X		X
Service Class Routing		X		X
Trunk Access Limitation		X		X
Uniform Call Distribution for Use with DALs	X	X		
Feature Group D with 950 Access		X		X
Public Switched Digital Service Switching Capability	X		X	
Signaling System Seven Signaling Signal Formulation	X			X
Basic Initial Address Message Delivery SS7 Optional Parameters			X	
a. Carrier Identification Parameters	X		X	

## ACCESS SERVICE

### 6. Switched Access Service (Cont'd)

#### 6.1 General (Cont'd)

##### 6.1.1 Switched Access Service Arrangements and Manner of Provision (Cont'd)

###### (I) Manner of Provision (Cont'd)

Because some customers will wish, or may be required, to further segregate their originating traffic into separate trunk groups, originating traffic type is further categorized as follows:

Domestic - access capacity for carrying only domestic traffic other than 500, 700, 800, 900, Operator, Inward Assistance and Alternate Card Access traffic. (D)

500 - access capacity for carrying only 500 traffic

700 - access capacity for carrying only 700 traffic

800 - access capacity for carrying only 800 traffic

900 - access capacity for carrying only 900 traffic

IDDD - access capacity for carrying only International Direct Distance Dialing traffic. (D)

Alternate Card Access Service - access capacity for carrying only alternate card access service traffic. (D)

Non presubscribed - access capacity where use of an access code (other than 1+) is required.

When ordering such types of access capacity, the customer must specify the appropriate traffic type(s).

##### 6.1.2 Dedicated Access Line Service

Dedicated Access Line Service is a type of Special Access Service that is provided for use with Switched Access Service, as described below. The customer must specify the type of Switched Access service to be used in conjunction with each Dedicated Access Line ordered. This Service is described in 7.2.3 and 7.2.9 following.

---

**ACCESS SERVICE**

**6. Switched Access Service (Cont'd)**

**6.1 General (Cont'd)**

**6.1.3 Rate Categories (Cont'd)**

**(A) Switched Transport (Cont'd)**

**(3) Nonchargeable Optional Features (Cont'd)**

**(d) 64 Clear Channel Capability**

The 64 Clear Channel Capability (64 CCC) option employs the Bipolar 8 Zero Suppression (B8ZS) technique to permit customers to use the full 64 Kbps bandwidth of a DS0 channel. The wire centers equipped for 64 CCC are set forth in the National Exchange Carrier Association Tariff F.C.C. No. 4 for Wire Center Information (V & H coordinates). 64 CCC, as described in AM-TR-TMO-000094, is available with Interface Groups 6 and 9 for Feature Group D with Signaling System 7 signaling.

**(e) LT-1 Clear Channel Capability**

An arrangement which allows a customer to transport 1.536 Mbps of information on a 1.544 Mbps LT-1 Direct Transport facility with no constraint on the sequence or quantity of one and zero bits.

LT-1 Clear Channel Capability is a required option for LT-1 Direct Transport when 64 CCC channels are multiplexed onto the LT-1 Direct Transport service.

Where appropriate facilities are not immediately available, negotiated order intervals may apply. The technical specifications for this feature are described in Technical Reference TR-INS-000054.

**(4) Chargeable Optional Features**

**(a) Reserved for Future Use**

(T)

(D)

(D)

---

**ACCESS SERVICE**

- 6. **Switched Access Service (Cont'd)**
  - 6.1 **General (Cont'd)**
    - 6.1.3 **Rate Categories (Cont'd)**
      - (A) **Switched Transport (Cont'd)**
        - (4) **Chargeable Optional Features (Cont'd)**

(D)

(D)

**(b) Inward Assistance Service**

Inward Assistance is an option which provides for Operator to Operator assistance for a general inquiry. The customer's operator may request assistance when a call originates outside of the MSA and the terminating number is within the Telephone Company's service area. The type of Inward Assistance which may be provided is described below. The Telephone Company operator only provides Inward Assistance for InterMSA calls. This option is provided with FGD and is available in all Telephone Company end offices.

---

**ACCESS SERVICE**

**6. Switched Access Service (Cont'd)**

**6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)**

**6.2.4 Feature Group D (FGD) (Cont'd)**

**(A) Description (Cont'd)**

(10) When FGD is provided with Public Switched Digital Service, the standard dialing pattern as described in paragraph 6.2.4(A)(6) may be used or, where technical limitations so require, the dialing pattern may be modified as follows. In the originating direction, end users at suitably equipped end user premises may activate the capability in the end office by dialing #56 + 101XXXX + 10 digits, or #56 + 1 + 10 digits when presubscribed to a participating Interexchange Carrier. Customers will be notified of the dialing pattern to be used when service is ordered.

(11) When a customer has had FGB access in an end office and subsequently replaces the FGB access with FGD access, at the mutual agreement of the customer and the Telephone Company, the Telephone Company will, for a period of 90 days, direct calls dialed by the customer's previous FGB access code to the customer's FGD access service. The customer must be prepared to handle both the FGB and FGD signaling on the same trunks. Such calls will be rated as FGD.

(12) **Reserved for Future Use**

(13) When FGD service is provided for use with a Telecommunications Relay Services Provider Transport facility, as described in Section 6.5, calls will be delivered to any TRS subscriber's carrier of choice that is served by the TRS Access Tandem.

(T)  
(D)  
(D)  
(D)



---

**ACCESS SERVICE**

**6. Switched Access Service (Cont'd)**

**6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)**

**6.2.4 Feature Group D (FGD) (Cont'd)**

**(C) Transmission Specifications**

FGD is provided with either Type A1 or Type B1.

- When routed directly to the end office Type B1 is provided.
- When routed to an access tandem Type A1 is provided.
- Type A is provided on the transmission path from the access tandem to the end office.

Type A1 and Type B1 Transmission Specifications are provided with Interface Groups 1, 2, 6, 9, 10 and 11.

Type DA Data Transmission Parameters are provided for the transmission path 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.

(D)  
(D)

**(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. In addition to the tests described in 6.1.6 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Cooperative Scheduled Testing, Manual Scheduled Testing, and Nonscheduled Testing, are available for FGD as set forth in 13.3.4 following.

**ACCESS SERVICE**

**6. Switched Access Service (Cont'd)**

**6.6 Obligations of the Telephone Company (Cont'd)**

(D)

(D)

## ACCESS SERVICE

### 6. Switched Access Service (Cont'd)

#### 6.8 Rate Regulations (Cont'd)

##### 6.8.8 Measuring Access Minutes (Cont'd)

###### (D) Feature Group D Usage Measurement

For originating calls over FGD with multifrequency 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 SS7 signaling, usage measurement for direct trunks begins when the FGD entry switch sends an Initial Address Message. If the IAM has to be resent, usage measurement will begin when the IAM is resent. Usage measurement for tandem trunks begins when the FGD entry switch receives an Exit Message.

The measurement of originating call usage over FGD with multifrequency signaling 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.

The measurement of originating call usage over FGD with SS7 signaling ends when a Release Message is sent or received by the originating end user's end office, whichever occurs first.

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.

(D)  
|  
(D)

**ACCESS SERVICE**

**6. Switched Access Service**

**6.9 Rates and Charges (Cont'd)**

**6.9.1 Switched Transport (Cont'd)**

**(D) Chargeable Optional Features**

(1) Reserved for Future Use (T)

(2) Inward Assistance Service (D)

		<u>Per Call</u>
- Per Operator Assistance		0.65
<b>(3) Signal Transfer Point (STP) Access</b>	<b><u>USOC</u></b>	<b><u>Monthly Rate</u></b> <b><u>Nonrecurring Charge</u></b>
- Per Port	PT8SX	\$380.00    \$390.00
<b>(4) Signal Switching Per Message</b>	<b><u>USOC</u></b>	<b><u>Per Signaling Message</u></b>
- IAM		0.000117
- TCAP		0.000150
<b>(5) Signal Tandem Switching Per Message</b>		
- IAM		0.000160
<b>(6) Signal Transport Per Message</b>		
- IAM		0.000026
- TCAP		0.000038

Pursuant to Ill. C.C. Order in Docket No. 09-0188 dated June 24, 2009.

Issued: April 21, 2017

Effective: June 5, 2017

By W. Karl Wardin, Regional Vice President - Regulatory  
225 West Randolph Street, Chicago, Illinois 60606