

SWITCHED ACCESS SERVICE

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4.1. GENERAL

Switched Access Service, which is available to Customers for their use in furnishing their services to end users, provides a two-point communications path between a Customer's premises (or a collocated interconnection point) and an end user's premises. It provides for the use of common terminations, switching and trunking facilities of the Company. Access Service provides for the ability to originate calls from an end user's premises to a Customer's premises (or a collocated interconnection location) and to terminate calls from a Customer's premises (or collocated interconnection location) to an end user's premises in the LATA where it is provided. Switched Access Service must be ordered separately for each LATA in which the Customer desires to originate or terminate calls.

Switched Access Service is provided in the following service categories, which are differentiated by their technical characteristics and the manner in which an end user or customer accesses them when originating or terminating calls.

FGC Access provides trunk side access to Company end office for the customer's use in originating and terminating communications. FGC switching is provided at all end office switches unless FGD end office switching is provided in the same office.

FGD Access, which is available to all customers, provides trunk side access to Company end office switches with an associated uniform 101XXX access code for the Customer's use in originating and terminating communications. End users may also originate calls to a selected FGD Access customer without dialing the 101XXXX access code by using the Company's presubscription service.

800 Data Base Access Service, which is available to all customers, provides trunk side access to Company end office switches in the originating direction only, for the customer's use in originating calls dialed by an end user to telephone numbers beginning with the prefix "8XX". When an 8XX-NXX-XXXX call is originated by an end user, the Company will perform customer identification based on screening of the full ten-digits of the 8XX number to determine the Customer location to which the call is to be routed.

The following provision applies to the treatment of Toll VoIP-PSTN Traffic pursuant to the F.C.C.'s Part 51 Interconnection Rules and in compliance with the F.C.C.'s Report and Order and Further Notice of Proposed Rulemaking in CC Docket Nos. 96-45 and 01-92; GN Docket No. 09-51; WC Docket Nos. 03-109, 05-337, 07-135 and 10-90, and WT Docket No. 10-208, adopted October 27, 2011 and released November 18, 2011 (FCC 11-161). In the absence of an interconnection agreement between the Telephone Company and the customer specifying the treatment of Toll VoIP-PSTN Traffic, the Telephone Company will bill the customer the applicable interstate switched access rates on all jurisdictionally Intrastate voice traffic identified as Toll VoIP-PSTN Traffic.

(N)
|
(N)

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4.1 GENERAL (Cont.)

4.1.1 Call Signaling

Depending on the signaling system used by the customer in its network, the customer's facilities shall transmit the following call signaling information to the Telephone Company on traffic the customer's end users originate which is handed off for termination on the Telephone Company's network.

(A) Signaling System 7 (SS7) Signaling

When the customer uses SS7 signaling, it will transmit the Calling Party Number (CPN) or, if different from the CPN, the Charge Number (CN) information in the SS7 signaling stream.

(B) Multi-Frequency (MF) Signaling

When the customer uses MF signaling, it will transmit the number of the calling party or, if different from the number of the calling party, the Charge Number (CN) information in the MF Automatic Number Identification (ANI) field.

(C) Internet Protocol (IP) Signaling

When the customer uses IP signaling, it will transmit the telephone number of the calling party or, if different from the telephone number, the billing number of the calling party.

(N)

(N)

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4.2. **RATE CATEGORIES**

The Company provides originating and terminating switched access service through single blended rates based on aggregate traffic volumes from the following cost categories.

4.2.1. **Local Transport**

The Local Transport 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. Local Transport is composed of the following rate elements, Entrance Facility, Direct-Trunked Transport and Tandem-Switched Transport.

A. **Entrance Facility**

The Entrance Facility provides the communications path between a Customer's premises and the Company's serving wire center of that premises for the sole use of the Customer. The Entrance Facility is provided as High Capacity DS1 or High Capacity DS3 service. The Entrance facility is required whether the Customer's premises and the serving wire center are located in the same or different buildings.

B. **Direct-Trunked Transport**

Direct-Trunked Transport provides the transmission path from the serving wire center of the Customer's premises to an end office or as an option from the serving wire center to a tandem. The transmission path is dedicated to the use of a single Customer. Two types of Direct-Trunked Transport are available: (1) High Capacity DS1 (an isochronous serial digital channel with a rate of 1.544 Mbps), or (2) High capacity DS3 (an isochronous serial digital channel with a rate of 44.736 Mbps). The minimum period for which a High Capacity DS3 Direct-Trunked Transport is provided is twelve (12) months.

C. **Tandem-Switched Transport**

Tandem-Switched Transport is based on a Meet Point arrangement under which transmission facilities are switched through an Access Tandem between the Customer's Serving Wire Center and an End Office. Tandem-Switched Transport is also available between an Access Tandem and the applicable End Office when the Customer elects to use direct transport between its Serving Wire Center and such Access Tandem.

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4.2. **RATE CATEGORIES - Continued**

4.2.1. Local Transport – Continued

C. Tandem-Switched Transport - Continued

Tandem-Switched Transport rates consist of a Tandem Switching rate, a Tandem Switched Facility rate, and a Tandem Switched Termination rate. For originating toll free minutes only, a Joint Tandem Switched Transport rate applies in lieu of the Tandem Switching, Tandem Switched Facility and tandem Switched Termination rates and is only billed by the tandem company that performs the tandem switching function. (C)

Rates are effective July 1, 2021 per FCC Order 20-143

(N)

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4.2. **RATE CATEGORIES** (Continued)

4.2.2. End Office

The End Office category provides the local end office switching and end user termination functions necessary to complete the transmission of Switched Access communications to and from the end users served by the Company's end office.

A. Local Switching

The Local Switching rate element provides for the use of end office switching equipment and the termination of a call at a Company intercept operator or recording.

B. Common Trunk Port

The Common Trunk Port used by multiple customers provided for the termination of common transport trunks in common end office trunk ports in conjunction with tandem routed traffic.

C. Dedicated Trunk Port

The Dedicated Trunk Port provides for termination of direct facilities used by a single Customer in an end office trunk port where traffic is transported between the serving wire center and the end office.

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4.3. OTHER RATE CATEGORIES

4.3.1. 8XX Data Base Access Service

8XX Data Base Access Service is provided to all customers in conjunction with switched access service. When a 1+8XX+NXX-XXXX call is originated, the Company will utilize the Signaling System 7 (SS7) network to query an 8XX data base to identify the customer to whom the call will be delivered and provide vertical features based on the dialed ten-digits. The call will be routed to the identified customer.

A Basic Query charge is assessed for each query launched to the data base which identifies the customer to whom the call will be delivered. The Basic Query provides the identification of the customer to whom the call will be delivered and includes area of service routing which allows routing of *XX type calls to different interexchange carriers based on the Local Access Transport Area (LATA) in which the call originates. The Premium Feature Query provides the same customer identification as the Basic Query and vertical features which may include: (1) call validation (ensuring that calls originate from subscribed service areas); (2) POTS translation of 8XX numbers; (3) alternate POTS translation (which allows subscribers to vary the routing of 8XX type calls based on factors such as time of day, place or origination of the call, etc.); and (4) multiple carrier routing (which allows subscribers to route to different carriers based on factors similar to those in (3)).

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4.4. RATE REGULATIONS

This section contains the specific regulations governing the rates and charges that apply to Switched Access Service.

- 4.4.1. The single blended Switched Access rate applies to all access minutes switched at an End Office. An End User Access rate applies when the Company originates and terminates calls from/to its end users. A Carrier-to-Carrier Access rate applies when the Company switches traffic from one carrier to another.
- 4.4.2. Intermediate Transport rates apply when the Company's facilities are used to transport intrastate switched access traffic between a third party end office switch and the Customer designated premises. Section 4.2.1 provides descriptions of the types of transport classifications provided by the Company under Intermediate Transport. Meet Point Billing applies in assessing Intermediate Transport charges since more than one Exchange Telephone Company is involved in the provision of the Access Service to the Customer.

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4.5. ACCESS MINUTES

When recording originating calls over switched access with multi-frequency address signaling, usage measurement begins when the first wink supervisory signal is forwarded from the Customer's facilities. The measurement of originating call usage over switched access ends when the originating switched access entry switch receives disconnect supervision from either the originating End User's Local Switching Center (indicating that the originating End User has disconnected) or the Customer's facilities, whichever is recognized first by the entry switch.

For terminating calls over switched access with multi-frequency address signaling, the measurement of access minutes begins when a seizure signal is received from the Carrier's trunk group at the Point of Presence within the LATA. The measurement of terminating call usage over switched access ends when a disconnect signal is received, indicating that either the originating or terminating user has disconnected.

When recording originating calls of switched access with SS7 signaling, usage measurement begins with the transmission of the initial address message by the switch for direct trunk groups and with the receipt of an exit message by the switch for tandem trunk groups. The measurement of originating switched access usage ends when the entry switch receives or sends a release message, whichever occurs first.

For terminating calls over switched access with SS7 signaling, the measurement of access minutes begins when the terminating recording switch receives the initial address message from the terminating End User. On directly routed trunk groups or on tandem routed trunk groups, the Company switch receives the initial address message and sends the indication to the Customer in the form of an answer message. The measurement of terminating switched access call usage ends when the entry switch receives or sends a release message, whichever occurs first.

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SWITCHED ACCESS SERVICE

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4.6. **RATES AND CHARGES**

4.6.1. Switched Access Service

End User Access:

		<u>Rate</u>	
Originating, per Minute of Use			
Ann Arbor Area – Non 8YY	End Office	\$0.002706	
	Transport	\$0.001000	
Ann Arbor Area –8YY	End Office	\$0.001353	(R)
Grand Rapids Area – Non 8YY	End Office	\$0.002679	
	Transport	0.001000	
Grand Rapids Area –8YY	End Office	\$0.001340	(R)
Lansing Area - Non 8YY	End Office	0.003061	
	Transport	0.001000	
Lansing Area - 8YY	End Office	0.001531	(R)
Joint Tandem Switched Transport*		0.001	
Per Originating Toll Free Only			
Access Minute per Tandem			
Terminating, per Minute of Use			
Ann Arbor Area	End Office	\$0.000000	
	Transport	\$0.000130	
Grand Rapids Area	End Office	\$0.000000	
	Transport	\$0.000104	
Lansing Area	End Office	\$0.000000	
	Transport	\$0.000086	

4.6.2. Intermediate Transport

A. Entrance Facility

Per Termination	<u>Monthly Rate</u>	<u>Nonrecurring Rate</u>
High Capacity DS1 – MTM	\$158.00	\$181.00
High Capacity DS1 – 12 Month	\$125.00	\$181.00
High Capacity DS1 – 36+ Month	\$58.00	\$181.00
High Capacity DS3 - MTM	\$1260.00	\$499.00
High Capacity DS3 – 12 Month	\$643.00	\$499.00
High Capacity DS3 – 36+ Month	\$585.00	\$499.00

*The Joint Tandem Switched Transport rate element applies per tandem to originating 8YY minutes only in lieu of the End User Transport rate element as of July 1, 2021.
 Rates are effective July 1, 2021 per FCC Order 20-143

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SWITCHED ACCESS SERVICE

4.6. **RATES AND CHARGES** (Continued)

4.6.2. **Intermediate Transport** (Continued)

B. **Direct-Trunked Transport Termination**

Per Termination	Monthly Rate	Nonrecurring Rate	
High Capacity DS1 – MTM	\$33.42		(N)
High Capacity DS1 – 12 Month	\$14.00		
High Capacity DS1 – 36+ Month	\$11.80		
High Capacity DS3 - MTM	\$351.00		
High Capacity DS3 – 12 Month	\$132.84		
High Capacity DS3 – 36+ Month	\$110.70		
Installation Charge, per 24 Trunks, per Order		\$249.00	(N)
			(N) (M)

C. **Direct-Trunked Transport - Facility**

Per Mile	Monthly Rate	
High Capacity DS1 – MTM	\$14.15	(N)
High Capacity DS1 – 12 Month	\$5.90	(N)
High Capacity DS1 – 36+ Month	\$4.80	(N)
High Capacity DS3 - MTM	\$57.30	(N)
High Capacity DS3 – 12 Month	\$21.60	(N)
High Capacity DS3 – 36+ Month	\$18.00	(N)
		(M)

(M) Material now shown on Sheet 9 of this Section

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D. Multiplexing

	<u>Monthly Rate</u>
Per Arrangement	
- DS3 to DS1	n/a
- DS1 to Voice	n/a

E. Tandem-Switched Transport Termination

	<u>Rate</u>
Per Access Minute	n/a

F. Tandem-Switched Transport Facility

	<u>Rate</u>
Per Access Minute per mile	n/a

4.6.3. 800 Data Base Query

	<u>Rate</u>
per Data Base Query	<u>\$0.000200</u> (R)

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