

CENTRALIZED EQUAL ACCESS SERVICE

CHECK SHEET

Title Page 1 and Pages 1 to 166, inclusive, of this tariff are effective as of the date shown. Revised pages as set forth below contain all changes from the original tariff which are in effect on the date hereof.

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2900 West 10th Street
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CENTRALIZED EQUAL ACCESS SERVICE1. Application of Tariff

1.1 This tariff contains regulations, rates and charges applicable to the provision of Access Services and other miscellaneous services, hereinafter referred to collectively as service(s), provided by South Dakota Network, LLC (SDN), to customers.

1.2 The provision of such services by SDN as set forth in this tariff is subject to the availability of facilities and does not constitute a joint undertaking with the customer or the Routing Exchange Carriers for the furnishing of any service.

Access services provided under this tariff cover only the use of SDN's central access tandem ~~and the transport between a Routing Exchange Carrier's point of interconnection and said central access tandem~~. End office switches served by SDN's central access tandem are operated by the appropriate Routing Exchange Carrier. Therefore, any access services ordered under this tariff must be used with a like access service ordered from a Routing Exchange Carrier or vice versa.

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2900 West 10th Street
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CENTRALIZED EQUAL ACCESS SERVICE2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.8 Rating and Billing of Access Services Provided by SDN and Routing Exchange Carriers

SDN will handle rating and billing of Access Services under this tariff as follows.

(A)~~Reserved for Future Use~~

(C)

~~SDN will provide the Access Transport between SDN's central access tandem and Routing Exchange Carriers points of interconnection and bill the charges in accordance with its Centralized Equal Access Tariff. SDN's rate for the Transport element is as set forth in 6.8.1 following.~~

(D)

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(D)

(B) The Routing Exchange Carrier will provide the Transport element between SDN ~~points of interconnection~~CEA Switch and the end office switch(es) served by SDN's central access tandem and will bill the charges in accordance with its Access Service tariff. All other appropriate charges in the Routing Exchange Carrier tariff are applicable.

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2900 West 10th Street
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CENTRALIZED EQUAL ACCESS SERVICE**5. Ordering Options for Switched Access Service****5.1 General**

This section sets forth the regulations and other related charges for Access Orders for Access Service. These charges are in addition to other applicable charges as set forth in other sections of this Tariff.

An Access Order is an order, in a form or format acceptable to SDN and the customer, to provide the customer with Access Service, access related services, or to provide changes to existing services.

Transport is provided by the Routing Carriers listed in Section 9 following as tandem switched only. Direct-Trunked Transport as defined in Section 2.6 is not available to a Routing Exchange Carrier's end office since equal access is provided through the SDN centralized access tandem (Federal Communications Commission No. DA 90-1964), except when the Routing Exchange Carrier is engaged in access stimulation as defined by the FCC. (C)
(SX)
(S&)
(C)

Unless covered under another separate contract or agreement (i.e. transiting traffic service agreement), all traffic delivered by an IC to the SDN access tandem will be considered access traffic and billed accordingly.

5.1.1 Ordering Conditions (SX)

Access Service may be ordered from SDN. Switched Access Service is provided in Feature Group D with Signaling System Number 7 (SS7) arrangements only between the customer's point of termination at SDN's central access tandem and a Routing Exchange Carrier's point of interconnection. Access Service between a customer's premises and the customer's point of termination at the SDN access tandem is solely the responsibility of the customer and must be provided by the customer or ordered from another carrier. Access Service from the SDN's CEA switch Routing Exchange Carrier's point of interconnection to an end office must be ordered from a Routing Exchange Carrier or other Exchange Telephone Company. SDN will determine the Transport facilities to be provided between a Routing Exchange Carrier's point of interconnection and SDN's central access tandem on the basis of the capacity ordered. (D)
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(D)
(TD)
(D)
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(D)

The customer shall supply all the necessary information to provide service, (e.g., customer name, customer address, customer contact and facility interface, etc.)

Orders for Access Service between SDN's central access tandem and the Routing Exchange Carrier's point of interconnection shall be in BHMCs.

X = ~~Issued under authority of Special Permission # 14-004 to withdraw material filed on March 5, 2014 without becoming effective.~~ (D)
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2900 West 10th Street
Sioux Falls, South Dakota 57104

Transmittal 10

CENTRALIZED EQUAL ACCESS SERVICE5. Ordering Options for Switched Access Service (Cont'd)5.3 Available Inventory

Available inventory is limited and does not include facilities used to provide working services or facilities previously ordered, reserved for pending orders or held as maintenance spare.

Available inventory is the SDN facilities (e.g., loop pairs, interoffice pairs, carrier channels, circuit equipment, trunk equipment, and switching equipment) in place, when the customer places an order, or under construction to meet future customer orders. The available date for facilities under construction is the date such facility construction is completed, including line up and testing, and made available to meet customer needs. SDN will make every reasonable effort to maintain sufficient available inventory to provide ~~Access Transport and~~ Centralized Equal Access Service in accordance with customers' requested service date intervals. To the extent that service can be provided, Access Orders will be satisfied from available inventory.

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Sioux Falls, South Dakota 57104

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

(A) Access Services provided by SDN and Exchange Telephone Companies are services where one end of the Transport element is in the operating territory of an Exchange Telephone Company and SDN provides a portion of the Transport element between that Exchange Telephone Company and another point on the SDN network, or where the Interim NXX Translation Service is provided by SDN. SDN will coordinate and arrange for the provision of the services ordered. In addition to the Access Transport rate billed by SDN as set forth in Section 6.8.1 following, each Exchange
Each Routing Exchange Carrier listed in Section 9 following Telephone Company, will provide the portion of the Transport element in its operating territory to the SDN CEA Tandem and will bill its charges in accordance with its tariff.

- (1) When Switched Access Services are ordered to SDN's central access tandem, the customer will place the order with SDN. The customer must also supply a copy of the order to each Exchange Telephone Company involved in providing the service and subtending SDN's central access tandem.

- (2) Reserved for Future Use

- (3) When Feature Group D Switched Access Services are ordered from SDN, the customer must copy the order to the Exchange Telephone Company in whose territory the end office is located.

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CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service****6.1 General**

Switched Access Service, when combined with the services offered by Exchange Telephone Companies, is available to customers in Feature Group D arrangements only. SDN provides a communications path between the transmission facilities of a Routing Exchange Carrier listed in Section 9 following and SDN's central access tandem where the customer's traffic is switched to originate or terminate its communications. It also provides for the switching facilities at SDN's central access tandem. SDN's central access tandem is SDN's switching system located at Sioux Falls, South Dakota which provides a concentration and distribution function for originating and terminating traffic between the end offices of Routing Exchange Carriers listed in Section 9. following and a customer's point of termination. The customer's point of termination is the demarcation point or network interface between SDN's communications facilities located at the SDN tandem switch and customer provided facilities.

(C)

Rates and charges for Switched Access Service are set forth in 6.8 following. The application of rates for Switched Access Service is described in 6.7 following.

6.1.1 Feature Group Arrangements and Manner of Provision

Switched Access Service is provided in three service categories called Feature Groups. These are differentiated by their technical characteristics and the manner in which an end user accesses them in originating calling, e.g., with or without an access code. The provision of each Feature Group associated with SDN CEA Switching service requires the Local Transport ~~facilities and the appropriate and~~ End Office functions provided by Routing Exchange Carriers and other Exchange Telephone Companies which will bill its access charges in accordance with its tariff. There are various nonchargeable optional features available with Switched Access as set out in Section 5 preceding. In addition, Interim NXX Translation is Interim NXX provided in conjunction with Feature Group D Switched Access Service. Following is a brief description of each Feature Group arrangement and the Interim NXX Translation optional feature.

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CENTRALIZED EQUAL ACCESS SERVICE6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)(E) Manner of Provision

Switched Access Service is furnished in lines, trunks or both Originating and Terminating busy hour minutes of capacity (BHMCs). SDN will ~~determine~~ coordinate the Access Transport facilities to be provided by the Routing Exchange Carrier on the basis of the lines, trunks or busy hour minutes of capacity ordered as set forth in 5.2 preceding. Switched Access Service is furnished as a two-way access service between the customer's point of termination and points of interconnection of Routing Exchange Carriers set forth in Section 9 following.

(D)
(C)
(C)

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

There are two major BHMC categories identified as: Originating and Terminating. Originating BHMCs represent access capacity for carrying traffic from the end user to the IC's point of termination at SDN's central access tandem. Terminating BHMCs represent access capacity for carrying traffic from the IC's point of termination at SDN's central access tandem to the end user.

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2900 West 10th Street
Sioux Falls, South Dakota 57104

(T)

CENTRALIZED EQUAL ACCESS SERVICE6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories

There are three basic rate categories which apply to the provision of Switched Access Service in conjunction with Centralized Equal Access Service:

- Centralized Equal Access (described in 6.1.3(A) following)
- Access Transport (~~described in 6.1.3(B) following~~ provided by Routing Exchange Carriers in listed in Section 9 following) (DC)
(C)
- Chargeable optional features (described in 6.1.3(C) following)

The following diagram depicts a generic view of how the Routing Exchange Carrier's Access Transport and SDN's Centralized Equal Access Service is combined ~~with the service of the Routing Exchange Carriers set forth in Section 9.~~ following to provide a complete Switched Access Service. (C)
(C)
(D)
(D)

Legend

AT	-	Access Transport	
CEAT	-	Centralized Equal Access Tandem	
EO	-	End Office of an Exchange Telephone Company	
POI Exchange	-	Point of Interconnection Between Facilities of SDN <u>CEAT</u> and Routing Exchange	(DC)
		Carriers or, if applicable, Other Exchange Telephone Companies	
POT	-	Point of Termination with facilities provided by IXC's	
IXC	-	Interexchange Carrier	
LEC	-	Local Exchange Carrier	
SDN	-	SDN, LLC	

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2900 West 10th Street
Sioux Falls, South Dakota 57104

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Centralized Equal Access Service

The Centralized Equal Access Service rate category establishes the charges related to the tandem switching facilities that provide a concentration and distribution function for originating and terminating traffic between a Routing Exchange Carrier and IXC's. Centralized Equal Access Service is assessed on a per access minute basis at the rate set forth in 6.8.1 following. This Centralized Equal Access Service rate is applicable to both the originating and terminating directions. The application of the Centralized Equal Access rate is described in Sections 6.7.1(A) ~~and 6.7.1(E) following.~~

(D)

(B) Reserved for Future Use

(C)

Access Transport

(D)

~~Access Transport is a High Capacity (1.544 Mbps) frequency transmission path composed of facilities determined by SDN. The two-way frequency transmission path permits the transport of calls between SDN's central access tandem and a Routing Exchange Carrier's point of interconnection.~~

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~~Access Transport is provided by SDN at a customer's point of termination located at SDN's central access tandem.~~

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~~The Access Transport rate applies per access minute for transporting a customer's call between a customer's point of termination at SDN's central access tandem and a Routing Exchange Carrier's point of interconnection, when that point of interconnection is not collocated at the SDN access tandem premises. (i.e.: The Access Transport rate is not charged when a Routing Exchange Carrier's point of interconnection is collocated at the SDN access tandem premises.)~~

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

~~-(B)~~ Reserved for Future Use (Cont'd)

(C)

~~Access Transport~~ (Cont'd)

(D)

~~The Access Transport rate element also provides the functions necessary to complete the transmission of Switched Access communications to and from SDN's central access tandem.~~

(D)

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(D)

~~Access Transport is assessed on a per access minute basis at the rate set forth in 6.8.1 following.~~

(D)

(D)

~~-(1)~~ Interface Groups

(D)

~~One Interface Group is provided for terminating the Access Transport at the customer's point of termination: Interface Group 6.~~

(D)

(D)

~~Interface Group 6 is provided with Type A or B Transmission Specifications depending on the Feature Group. All Interface Groups are provided with Data Transmission Parameters.~~

(D)

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(D)

~~Only certain interfaces are available at the customer's point of termination. The various interfaces which are available are set forth in Section 15.1.6 and Section 15.1.11 following.~~

(D)

|

(D)

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2900 West 10th Street
Sioux Falls, South Dakota 57104

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CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

~~.(B) Reserved for Future Use Access Transport~~ (Cont'd)

(C)

~~(2) — Nonchargeable Optional Features~~

(D)

~~Where transmission facilities permit, SDN will, at the option of the customer, provide the following nonchargeable optional features in association with Access Transport.~~

(D)

↓
↓

~~(a) — Supervisory Signaling~~

(D)

~~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:~~

(D)

↓
↓
↓

~~Interface Group 6 may, at the option of the customer be provided with individual transmission path SF supervisory signaling where such signaling is available in SDN's central access tandem. Generally, such signaling is available only where SDN's central access tandem provides an analog, i.e., non-digital, interface and a portion of the facility provided by the customer between SDN's central access tandem and the customer's switch is analog.~~

(D)

↓
↓
↓
↓
↓
↓

(D)

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 2900 West 10th Street
 Sioux Falls, South Dakota 57104

(T)

CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

~~.(B) Reserved for Future Use~~Access Transport (Cont'd)

(CD)

~~(2) — Nonchargeable Optional Features~~

(D)

~~Reserved for Future Use~~

(D)

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2900 West 10th Street
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CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.1 Description and Application of Rates and Charges (Cont'd)

(D) Reserved for Future Use

~~(E) Reserved for Future Use~~

(C)

~~Application of the Access Transport Rate~~

(D)

~~The Access Transport rate applies per access minute.~~

(D)

6.7.2 Reserved for Future Use

6.7.3 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.

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2900 West 10th Street
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CENTRALIZED EQUAL ACCESS SERVICE

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

	Rate Per Access Minute	
(A) <u>Reserved for Future Use</u> Access Transport	\$0.006001	(CD)
	Rate Per Call Blocked	
(B) <u>Network Blocking Charge</u>	\$0.0271	
	Rate Per Access Minute	
(C) <u>Centralized Equal Access</u>	\$0.005122	
	Rate Per Order	
(D) <u>Interim NXX Translation</u>	\$181.00	

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2900 West 10th Street
Sioux Falls, South Dakota 57104

CENTRALIZED EQUAL ACCESS SERVICE

15. ~~Interface Groups, Transmission Specifications and Channel Interfaces Reserved for Future Use~~ (CD)~~15.1 Access Transport Interface Groups~~ (D)

~~The interface is provided with Common Channel Signaling SS7 only. Exceptions to the SS7 Signaling will be based on an Individual Case Basis.~~

~~Interface Group 6 is provided with Type A or B Transmission Specifications, depending on the Feature Group. This Interface Group is provided with Data Transmission Parameters.~~

~~Only certain interfaces are available at the customer's points of interconnection. The interfaces associated with the Interface Group may vary among Feature Groups. The various interfaces which are available with the Interface Group, and the Feature Groups with which it may be used, are set forth in 15.1.11 following.~~

~~15.1.1 Reserved for Future Use~~~~15.1.2 Reserved for Future Use~~~~15.1.3 Reserved for Future Use~~~~15.1.4 Reserved for Future Use~~~~15.1.5 Reserved for Future Use~~~~15.1.6 Interface Group 6~~

~~Interface Group 6 provides DS1 level digital transmission at the points of interconnection. The interface is capable of transmitting signals at a nominal 1.544 Mbps. SDN will provide, at the first point of switching, a DS1 signal in D3/D4 format.~~

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2900 West 10th Street
Sioux Falls, South Dakota 57104

CENTRALIZED EQUAL ACCESS SERVICE

15. ~~Interface Groups, Transmission Specifications and Channel Interfaces~~Reserved for Future Use (CD)
(Cont'd)~~15.1 Access Transport Interface Groups (Cont'd)~~ (D)~~15.1.6 Interface Group 6 (Cont'd)~~

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

~~15.1.7 Reserved for Future Use~~~~15.1.8 Reserved for Future Use~~~~15.1.9 Reserved for Future Use~~~~15.1.10 Reserved for Future Use~~~~15.1.11 Available Interface Codes~~

Following is a matrix showing, for the Interface Group, which interface codes are available as a function of SDN switch supervisory signaling and Feature Group.

Interface Group	Telephone Company Switch Supervisory Signaling	Interface Code	Feature Group A B D
6	L0, G0	4DS9-15	X
	L0, G0	4DS9-15L	X
	RV, EA, EB, EC	4DS9-15	X X
	RV, EA, EB, EC	4DS9-15L	X X

(D)

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2900 West 10th Street
Sioux Falls, South Dakota 57104

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