

**CENTRALIZED EQUAL ACCESS SERVICE**

## CHECK SHEET

Title Page 1 and Pages 1 to 15-10, inclusive, of this tariff are effective as of the date shown. Original and revised pages as named below contain all changes from the original tariff that are in effect on the date hereof.

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1.1	11th *	2-19	original	2-49	original
2	original	2-20	original	3-1	original
3	original	2-21	original	4-1	original
4	3rd	2-22	original	5-1	original
5	1st	2-23	original	5-2	original
6	2nd	2-24	original	5-3	original
7	original	2-25	original	5-4	original
8	original	2-26	original	5-5	original
9	original	2-27	original	5-6	original
10	original	2-28	original	5-6.1	2nd
11	original	2-29	original	5-7	original
12	1st	2-30	original	5-8	original
13	2nd	2-31	original	5-9	original
14	1st	2-32	original	5-10	original
15	1st	2-33	original	5-11	original
16	1st	2-34	original	5-12	original
1-1	1st			5-13	original
2-1	original	2-35.1	original	5-14	original
2-2	original	2-36	original	5-15	original
2-3	original	2-37	1st	5-16	1st
2-4	original	2-37.1	original	5-16.1	original
2-5	original	2-38	original	5-17	original
2-6	original	2-39	original	5-18	original
2-7	original	2-40	1st	5-19	original
2-8	original	2-40.1	original	5-20	1st
2-9	original	2-41	Original	6-1	1st
2-10	original	2-42	original	6-2	original
2-11	original	2-43	original	6-3	1st
2-12	original	2-44	original	6-3.1	original
2-13	original	2-45	1st	6-3.2	original
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10300 Sixth Avenue North

Plymouth, Minnesota 55441

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6-6	2nd *	6-36	1st	13-2	original
6-7	original	6-36.1	original	13-3	original
6-8	1st	6-37	original	13-4	original
6-9	original	6-38	original	13-5	original
6-10	1st	6-39	original	13-6	original
6-11	Original	6-40	original	13-7	original
6-12	1st	6-41	original	13-8	original
6-13	2nd	6-42	original	13-9	original
6-14	4th	6-43	original	13-10	original
6-14.1	2nd	6-44	original	13-11	original
6-15	original	6-45	original	13-12	original
6-15.1	original *	6-45.1	original	13-13	original
6-15.2	original *	6-46	1st	13-14	original
6-15.3	original *	6-47	original	14-1	original
6-15.4	original *	6-48	original	15-1	original
6-16	original	6-49	original	15-2	original
6-17	original	6-50	original	15-3	original
6-18	1st	6-51	original	15-4	original
6-19	original	6-52	original	15-5	original
6-20	original	6-53	1st	15-6	original
6-21	original	6-54	original	15-7	original
6-22	original	6-55	10th	15-8	original
6-23	original	6-56	original *	15-9	original
6-24	original	7-1	original	15-10	original
6-25	original	8-1	1st		
6-26	original	9-1	2nd		
6-27	original	9-2	2nd		
6-28	original	9-3	2nd		
6-29	original	9-4	2nd		
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**CENTRALIZED EQUAL ACCESS SERVICE**

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories

There are three rate categories which apply to the (C) provision of Switched Access Service:

Switched Transport (described in Section 6.1.3(A) following)

Non-chargeable Optional Features (described in 6.1.3(B) following)

Chargeable Optional Features (described in Section 6.1.3(C) following)

Common Channel Signaling Service (described in Section 6.1.3(D))

(N)

The following diagram depicts a generic view of how 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.

**CENTRALIZED EQUAL ACCESS SERVICE**

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

## 6.1 General (Cont'd)

## 6.1.3 Rate Categories (Cont'd)

## (D) Common Channel Signaling Service

Common Channel Signaling (CCS) is a protocol suite that allows for out-of-band signaling for voice and data message services. Signaling System Seven (SS7) is currently a widely deployed CCS protocol. The Onvoy CCS network is a digital data network carrying signaling information, which interfaces with the voice/data network. To ensure network reliability, Signal Transfer Points (STPs) are deployed in geographically dispersed mated pairs. STP access requires interconnection to ports of both STPs of the mated pair.

The Onvoy CCS network uses the SS7 protocol which was developed by the Consultative Committee for International Telephone and Telegraph (CCITT) and American National Standards Institute (ANSI) for signaling functions such as routing, establishing connections, providing billing information, validating calling cards and other services.

The STP provides translations and routing functions for SS7 signaling messages received from the Company's network signaling points and the SS7 networks of other entities. There are two types of signaling messages. ISDN User Part (ISUP) messages are used for call set-up. This type of signaling allows a customer to send originating and terminating call set-up signaling information between the customer's designated premises, the Company's STP and other entities. The second type of signaling is Transaction Capabilities Application Part (TCAP) messages. TCAP messages are used to carry information between signaling points for call related databases.

(N)

**CENTRALIZED EQUAL ACCESS SERVICE**

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

## 6.1 General (Cont'd)

## 6.1.3 Rate Categories (Cont'd)

## (D) Common Channel Signaling Service (Cont'd)

## (1) B-Link Interconnection Service

Bridging Links (B-Links) service describes the quad (4) links that connect peer pairs of STPs. These links carry signaling messages beyond their initial point of entry to the signaling network to a STP of another SS7 network. Charges for B-Link Interconnection service consist of a monthly STP port charge, CCS Link charge and message usage charges. A recurring charge, as set forth in Section 6.8.3 following is associated with this optional feature. The message usage charges apply only where Onvoy incurs usage charges as a result of interconnection with other SS7 providers. Interexchange carriers or other SS7 providers who connect to Onvoy's CCS network through B-links service have the option of entering into a "bill and keep" or other contractual arrangement with Onvoy in lieu of paying port, CCS links and message usage charges. The message usage charge is assessed on a per message basis at the rate set forth in Section 6.8.3 following.

(N)

**CENTRALIZED EQUAL ACCESS SERVICE**

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(D) Common Channel Signaling Service (Cont'd)

(2) STP Port Charge

A STP port charge is provided for each CCS link and is applied on a monthly basis.

(3) CCS Link

To connect to the Company STP and to its port, the customer must provide a link that provides a bi-directional transmission and operates at a DSO level. This link is utilized exclusively for connecting the customer's CCS network and the Company's CCS network for the transmission of network control signaling data. The customer is responsible for ordering this facility in conformance with industry SS7 specifications.

(N)

(4) Message Usage Charges

Message charges are assessed based on the type of message protocol, ISUP or TCAP. ISUP messages are for call set-up and TCAP are related to call related databases. ISUP message are charged on a per call request and TCAP messages are charged per data request.

**CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(D) Common Channel Signaling Service (Cont'd)(4) Message Usage Charges (Cont'd)

The specific rate elements are as follows:

Signal Formulation: This charge is applied per call set-up request for the formulation of a signal message. The Signal Formulation usage charge is assessed on a per message basis at the rate set forth in Section 6.8.3 following.

(N)

Signal Transport: An ISUP signal transport charge is applied per call set-up request for signaling messages transported to or from the Company STP in association with call set-up. A TCAP signal transport charge is applied per data request transported to or from the Company STP and the destined foreign database. The Signal Transport usage charge is assessed on a per message basis at the rate set forth in Section 6.8.3 following.

Signal Switching: An ISUP signal switching charge is applied per call set-up request that is switched at the Company STP. A TCAP signal switching charge is applied for each data request that is switched by the Company STP and destined for a foreign database or network. The Signal Switching usage charge is assessed on a per message basis at the rate set forth in Section 6.8.3 following.

CENTRALIZED EQUAL ACCESS SERVICE6. Switched Access Service (Cont'd)6.8 Rates and Charges (Cont'd)6.8.3 Common Channel Signaling Service Charges

(A)	<u>B-Link Service</u>	<u>Monthly Recurring</u>
	STP Per Port	\$1,200.00

(B) Message Usage Charges Per Call Set up

Signal Formulation	\$ .0009
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Signal Transport	<u>Per Message</u>
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Signal Transport ISUP	\$ .0006
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Signal Transport TCAP	\$ .000418
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Signal Switching	<u>Per Message</u>
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Signal Switching ISUP	\$ .002
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Signal Transport TCAP	\$ .000046
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