

**CENTRALIZED EQUAL ACCESS SERVICE**

The Title Page 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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**CENTRALIZED EQUAL ACCESS SERVICE****CHECK SHEET**

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**CENTRALIZED EQUAL ACCESS SERVICE**

**CONCURRING CARRIERS**

NO CONCURRING CARRIERS

**CONNECTING CARRIERS**

NO CONNECTING CARRIERS

**OTHER PARTICIPATING CARRIERS**

Iowa Network Services, Inc  
Des Moines, Iowa

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**REGISTERED SERVICE MARKS**

NONE

**REGISTERED TRADEMARKS**

NONE

**CENTRALIZED EQUAL ACCESS SERVICE****EXPLANATION OF ABBREVIATIONS** (Cont'd)

FGA	-	Feature Group A
FGB	-	Feature Group B
FGC	-	Feature Group C
FGD	-	Feature Group D
F.C.C.	-	Federal Communications Commission
Hz	-	Hertz
ICB	-	Individual Case Basis
ICL	-	Inserted Connection Loss
INS	-	Iowa Network Services, Inc
Kbps	-	Kilobits per second
LATA	-	Local Access and Transport Area
LIDB	-	Line Information Data Base
Mbps	-	Megabits per second
MHz	-	Megahertz
MIEAC	-	Minnesota Independent Equal Access Corporation
MTS	-	Message Telecommunications Service(s)
NANP	-	North American Numbering Plan
NPA	-	Numbering Plan Area
NRC	-	Nonrecurring Charge
NXX	-	Three-Digit Central Office Code
POI	-	Point of Interconnection
POT	-	Point of Termination
REC	-	Routing Exchange Carrier
RSM	-	Remote Switching Modules
RSS	-	Remote Switching Systems
SAC	-	Service Access Code
SCP	-	Service Control Point
SNAC	-	Signaling Network Access Connection
SP	-	Signal Point
SPOI	-	Signaling Point of Interconnection
SRL	-	Singing Return Loss
SS7	-	Signaling System Seven
SSP	-	Service Switching Point
STP	-	Signal Transfer Point
TTP	-	Toll Transfer Point
V&H	-	Vertical & Horizontal
WATS	-	Wide Area Telecommunications Service(s)

(D)

**CENTRALIZED EQUAL ACCESS SERVICE**

1. **Application of Tariff**

- 1.1 This tariff contains regulations, rates and charges applicable to the provision of Switched Access Services and other miscellaneous services, hereinafter referred to collectively as services(s), provided by Minnesota Independent Equal Access Corporation, hereinafter referred to as MIEAC, a subsidiary of Onvoy, Inc.

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- 1.2 The provision of such services by MIEAC 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.

Switched access services provided under this tariff cover only the use of MIEAC's central access tandems, the switched transport between an MIEAC Toll Transfer Point (TTP) and such central access tandem, and the Iowa Network MIEAC Common Channel Signaling Access Network. End Office switches served by MIEAC's central access tandem are operated by the appropriate Routing Exchange Carrier. Therefore, any switched access services ordered under this tariff must be used with a like switched access service ordered from a Routing Exchange Carrier or vice versa.

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**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.1 Undertaking of MIEAC (Cont'd)

2.1.3 Liability (Cont'd)

- (B) MIEAC shall not be liable for any act or omission of any other carrier or customer providing a portion of a service, nor shall MIEAC for its own act or omission hold liable any other carrier or customer providing a portion of a service.
- (C) Reserved for Future Use
- (D) MIEAC shall be indemnified, defended and held harmless by the customer against any claim, loss or damage arising from its use of services offered under this tariff, involving:
  - (1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from any communications;
  - (2) Claims for patent infringement arising from combining *or* using the service furnished by MIEAC in connection with facilities or equipment furnished by the customer; or
  - (3) All other claims arising out of any act or omission of the customer in the course of using services provided pursuant to this tariff.
- (E) MIEAC does not guarantee or make any warranty with respect to its services when used in an explosive atmosphere. MIEAC shall be indemnified, defended and held harmless by the customer from any and all claims by any person relating to the customer's use of services so provided. (Z)



**CENTRALIZED EQUAL ACCESS SERVICE**2. **General Regulations** (Cont'd)2.1 **Undertaking of MIEAC** (Cont'd)2.1.5 **Installation and Termination of Services**

The Centralized Equal Access Service provided under this tariff (A) includes MIEAC's communication facilities up to the point of termination as defined in 2.6 following which denotes the demarcation point or network interface and (B) will be provided by MIEAC to such point of termination. Any additional terminations at the customer's premises beyond such point of termination are the sole responsibility of the customer.

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2.1.6 **Service Maintenance**

The services provided under this tariff shall be maintained by MIEAC. The customer or others may not rearrange, move, disconnect, remove or attempt to repair any facilities provided by MIEAC, other than by connection or disconnection to any interface means used, except with the written consent of MIEAC.

2.1.7 **Changes and Substitutions**

Except as provided for equipment and systems subject to F.C.C. Part 68 Regulations at 47 C.F.R. Section 68.110(b), MIEAC may, where such action is reasonably required in the operation of its business, (A) substitute, change or rearrange any facilities used in providing service under this tariff, (B) change minimum protection criteria, (C) change operating or maintenance characteristics of facilities or (D) change operations or procedures of MIEAC. In case of any such substitution, change or rearrangement, the transmission parameters will be within the range as set forth in Section 15. following. MIEAC shall not be responsible if any such substitution, change or rearrangement renders any customer furnished services obsolete or requires modification or alteration thereof

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**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.1 Undertaking of MIEAC (Cont'd)

2.1.7 Changes and Substitutions (Cont'd)

or otherwise affects their use or performance. If such substitution, change or rearrangement materially affects the operating characteristics of the facility, MIEAC will provide reasonable notification to the customer in writing. Reasonable time will be allowed for any redesign and implementation required by the change in operating characteristics. MIEAC will work cooperatively with the customer to determine reasonable notification procedures.

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2.1.8 Refusal and Discontinuance of Service

- (A) Unless the provisions of 2.2.1(B) or 2.5 following apply, if the customer fails to comply with 2.1.6 preceding or 2.2.2, 2.3.1., 2.3.4, 2.3.6 or 2.4 following, including any payments to be made by it on the dates and times herein specified, MIEAC may, on thirty (30) days written notice by Certified U.S. Mail to the person designated by the customer to receive such notices of noncompliance, refuse additional applications for service and/or refuse to complete any pending orders for service at any time thereafter. If MIEAC does not refuse additional applications for service on the date specified in the thirty (30) days notice, and the customer's noncompliance continues, nothing contained herein shall preclude MIEAC's right to refuse additional applications for service without further notice to the non-complying customer.

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

- (7) Effective on the first of January, April, July and October of each year, the customer shall update the intrastate and interstate jurisdictional report. The customer shall forward to MIEAC, to be received no later than fifteen (15) calendar days after the first of each such month, a revised report showing the interstate and intrastate percentage of use for the past three (3) months ending the last day of December, March, June and September, respectively, for each service arranged for interstate use. Except as set forth in (1) preceding where jurisdiction can be determined from the call detail, the revised report will serve as the basis for the next three (3) months billing and will be effective on the bill date in the following month (i.e., February, May, August and November) for that service. No prorating or backbilling will be done based on the report. If the customer does not supply the report, MIEAC will assume the percentages to be the same as that provided in the last quarterly report. For those cases in which a quarterly report has never been received from the customer, MIEAC will assume the percentages to be the same as that provided in the order for service as set forth in (1) preceding.

- (B) The customer shall keep sufficient detail from which the percentage of interstate use can be ascertained and upon request of MIEAC make the records available for inspection. Such a request will be initiated by MIEAC no more than (Z)

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Rating and Billing of Access Services Provided by MIEAC and Routing Exchange Carriers

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

- (A) MIEAC will provide the Switched Transport between MIEAC's central access tandem and another MIEAC premises set forth in Section 8. following and bill the charges in accordance with its Centralized Equal Access Tariff. MIEAC's rate for the Switched Transport element is as set forth in 6.8.1 following.
- (B) Exchange Telephone Companies will provide the Switched Access Service transport between a MIEAC Toll Transfer Point listed in Section 8. following and the End Office switch (s) served by MIEAC's central access tandem, and will bill the charges for such transport in accordance with their Access Service tariffs. All other appropriate charges in the Exchange Telephone Company tariff are applicable. (Z)  
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2.5 Connections

Equipment and Systems (i.e., terminal equipment, multiline terminating systems and communications systems) may be connected with Switched Access Service furnished by MIEAC where such connection is made in accordance with the provisions specified in Technical Reference Publication AS No. 1 and in 2 1 preceding.

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.6 Definitions

Certain terms used herein are defined as follows:

Access Code

The term "Access Code" denotes a uniform five (5) or seven (7) digit code assigned by the Routing Exchange Carrier to an individual customer. The five (5) digit code has the form 10XXX, and the seven (7) digit code has the form 101XXXX. (T)

Access Minutes

The term "Access Minutes " denotes that usage of exchange facilities in interstate service for the purpose of calculating chargeable usage.

Access Tandem

The term "Access Tandem" denotes a switching system that provides a concentration and distribution function for originating and terminating traffic between End Offices and a customer's premises. (T)

Answer/Disconnect Supervision

The term "Answer/Disconnect Supervision" denotes the transmission of the switch trunk equipment supervisory signal (off-hook or on-hook) to the customer's point of *termination as* an indication that the called party has answered or disconnected.

Attenuation Distortion

The term "Attenuation Distortion" denotes the difference in loss at specified frequencies relative to the loss at 1004 Hz, unless otherwise specified.

Balance (100 Type) Test Line

The term "Balance (100 Type) Test Line" denotes an arrangement which provides for balance and noise testing.

**CENTRALIZED EQUAL ACCESS SERVICE**2. **General Regulations** (Cont'd)2.6 **Definitions** (Cont'd)**Centralized Equal Access ("CEA") End Office**

A "Centralized Equal Access End Office" is an End Office Switch that provides equal access services in conjunction with a centralized equal access tandem, as designated in the National Exchange Carrier Association ("NECA") Tariff No. 4.

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**Central Office Prefix**

The term "Central Office Prefix" denotes the first three (3) digits (NXX) of the seven (7) digit telephone number assigned to a customer's Telephone Exchange Service when dialed on a local basis.

**Channel(s)**

The term "Channel(s)" denotes an electrical, radio or photonic communications path between two (2) or more points of termination.

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**Channelize**

The term "Channelize" denotes the process of multiplexing-demultiplexing wider bandwidth or higher speed channels into narrower band-width or lower speed channels.

**C-Message Noise**

The term "C-Message Noise" denotes the frequency weighted average noise within an idle voice channel. The frequency weighting, called C-message, is used to simulate the frequency characteristic of the 500-type telephone set and the hearing of the average subscriber.

**C-Notched Noise**

The term "C-Notched Noise" denotes the C-message frequency weighted noise on a voice channel with a holding tone, which is removed at the measuring end through a notch (very narrow band) filter.

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**Common Channel Signaling Access Network (CCSAN)**

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The term "CCSAN" refers to the network that allows call control information to be transmitted separately, or out of-band, from the voice communications path. SS7 is the most recent protocol used for common channel signaling.

**CENTRALIZED EQUAL ACCESS SERVICE**

2. **General Regulations** (Cont'd)

2.6 **Definitions** (Cont'd)

**Echo Control**

The term "Echo Control" denotes the control of reflected signals in a transmission path.

**Echo Path Loss**

The term "Echo Path Loss" denotes the measure of reflected signal at a 4-wire point of interconnection without regard to the send and receive Transmission Level Point.

**Echo Return Loss**

The term "Echo Return Loss" denotes a frequency weighted measure of return loss over the middle of the voiceband (approximately five hundred (500) to twenty-five hundred (2500) Hz), where talker echo is most annoying.

**8XX Service Management System**

The term "8XX Service Management System" (8XX SMS) denotes the main operations support system used to create and update 8XX service records in the national 8XX database.

**8XX Service Provider**

The term "8XX Service Provider" denotes a telecommunications company that offers 8XX service to subscribers.

**End Office Switch**

The term "End Office Switch" denotes an Exchange Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to trunks. Included are Remote Switching Modules and Remote Switching Systems served by a host office in a different wire center.

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**CENTRALIZED EQUAL ACCESS SERVICE**

2. General-Regulations (Cont'd)

2.6 Definitions (Cont'd)

Grandfathered

The term "Grandfathered" denotes Terminal Equipment, Multiline Terminating Systems and Protective Circuitry directly connected to the facilities utilized to provide services under the provisions of this tariff, and which are considered Grandfathered under Part 68 of the F.C.C.'s Rules and Regulations.

Home

The term "Home" refers to the directing of calls to a specific toll center location or Class 4 office.

Host office

The term "Host Office" denotes an electronic switching system which provides call processing capabilities for one or more Remote Switching Modules or Remote Switching Systems.

Iowa Network Services, Inc. (Iowa Network)

The term "Iowa Network Services, Inc." denotes the centralized equal access provider who is cooperating with MIEAC on the joint operation of the CCSAN. Iowa Network owns and operates an STP located in Des Moines, Iowa, which is mated to the STP owned and operated by MIEAC in Plymouth, Minnesota.

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Immediately Available Funds

The term "Immediately Available Funds" denotes a corporate or personal check drawn on a bank account and funds which are available for use by the receiving party on the same day on which they are received and include U.S. Federal Reserve bank wire transfers, U.S. Federal Reserve notes (paper cash) , U.S. coins, U.S. Postal Money Orders and New York Certificates of Deposit.



**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Impulse Noise

The term "Impulse Noise" denotes any momentary occurrence of the noise on a channel over a specified level threshold. It is evaluated by counting the number of occurrences which exceed the threshold.

Individual Case Basis ("ICB")

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The term "Individual Case Basis" denotes a condition in which the regulations, if applicable, rates and charges for an offering under the provisions of this tariff are developed and tarified based on the circumstances in each case.

Inserted Connection Loss

The term "Inserted Connection Loss" denotes the 1004 Hz power difference (in dB) between the maximum power available at the originating end and the actual power reaching the terminating end through the inserted connection.

Interexchange Carrier (IC) or Interexchange Common Carrier

The term "Interexchange Carrier" (IC) or "Interexchange Common Carrier" denote any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged for hire in interstate or foreign communications by fiber optics, wire or radio, between two (2) or more exchanges.

Intermodulation Distortion

The term "Intermodulation Distortion" denotes a measure of the nonlinearity of a channel. It is measured using four (4) tones, and evaluating the ratios (in dB) of the transmitted composite four-tone signal power to the second order products of the tones (R2), and the third-order products of the tones (U).

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Interstate Communications

The term "Interstate Communications" denotes both interstate and foreign communications.

Intrastate Communications

The term "Intrastate Communications" denotes any communications within a state subject to oversight by a state regulatory commission, as provided by the laws of the state involved.

Line-Side Connection

The term "Line-Side Connection" denotes a connection of a transmission path to the line side of a local exchange switching system.

Local Access and Transport Area

The term "Local Access and Transport Area" denotes a geographic area established for the provision and administration of communications service. It encompasses one or more designated exchanges, which are grouped to serve common social, economic and other purposes.

Local Tandem Switch

The term "Local Tandem Switch" denotes a local Telephone Company switching unit by which local telephonic communications are switched to and from an End Office Switch.

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Loop Around Test Line

The term "Loop Around Test Line" denotes an arrangement to provide a means to make certain two-way transmission tests on a manual basis. This arrangement has two terminations, each reached by means of separate telephone numbers and does not require any specific customer equipment. Equipment subject to this test arrangement is at the discretion of the customer.

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Remote Switching Modules and/or Remote Switching Systems

The terms "Remote Switching Modules" and/or "Remote Switching Systems" denote small, remotely controlled electronic End Office Switches which obtain their call processing capability from an ESS-type Host Office. The Remote Switching Modules and/or Remote Switching Systems cannot accommodate direct trunks to a customer. (T)

Responsible Organization

The term "Responsible Organization" denotes the entity which is responsible for the management and administration of an 8XX service record in the 8XX Service Management System. (T)

Return Loss

The term "Return Loss" denotes a measure of the similarity between the two (2) impedances at the junction of two (2) transmission paths. The higher the return loss, the higher the similarity.

Registered Equipment

The term "Registered Equipment" denotes the customer's premises equipment which complies with and has been approved within the Registration Provisions of Part 68 of the F.C.C.'s Rules and Regulations.

Routing Exchange Carrier

The term "Routing Exchange Carrier" denotes the Exchange Telephone Company in whose Exchange a Customer's End Users and End Office Switch(es) are located and which routes calls to and from MIEAC's facilities. (T)

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Service Access Code

The term "Service Access Code" denotes a three digit code in the NPA format which is used as the first three digits of a ten digit address and which is assigned for special network uses. Whereas NPA codes are normally used for identifying specific geographical areas, certain Service Access Codes have been allocated in the North American Numbering Plan to identify generic services or to provide access capability. An example of a Service Access Code is the 900 code. (Z)

Service Control Point (SCP)

The terms "Services Control Point" denotes the CCS/SS7 network node that acts as a host for various database applications and provides switching, routing, and call handling information.

Services Switching Point (SSP)

The term "Service Switching Point" denotes a switching office or node on the CCS/SS7 network which has the ability to launch queries to a centralized on-line database such as the 800 Database and the Line Information Database (LIDB). The SSP also performs all of the functions of the SP.

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Seven Digit Manual Test Line

The term "Seven Digit Manual Test Line" denotes an arrangement which allows the customer to select balance, Milliwatt and synchronous test lines by manually dialing a seven (7) digit number of the associated access connection.

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Shortage of Facilities or Equipment

The term "Shortage of Facilities or Equipment" denotes a condition which occurs when MIEAC does not have appropriate cable, switching capacity, bridging or multiplexing equipment, etc., necessary to provide the Access Service requested by the customer.

Short Circuit Test Line

The term "Short Circuit Test Line" denotes an arrangement which provides for an ac short circuit termination of a trunk by means of a capacitor of at least four (4) microfarads.

Signal Point (SP)

The term "Signal Point" denotes a node on the CCS/SS7 network that converts non-SS7 signals to SS7 protocol, sends and receives messages from one node to another in order to establish and disconnect calls.

Signal Transfer Point (STP)

The term "Signal Transfer Point" denotes a packet switch that routes signaling messages between SPs, SSPs, and SCPs. Iowa Network, in conjunction with MIEAC, provides a geographically separated mated pair of STPs for connection to the customer's SS7 network. The STPs are located in Des Moines, Iowa and Plymouth, Minnesota.

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**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Signal-to-C-Notched Noise Ratio

The term "Signal-to-C-Notched Noise Ratio" denotes the ratio in dB of a test signal to the corresponding C-Notched Noise.

Signaling Network Access Connection (SNAC)

The "Signaling Network Access Connection" denotes the link between the customer's Signaling Point of Interconnection (SPOI) and the Iowa Network/MIEAC STPs. The connection also included the necessary ports on the Iowa Network/MIEAC STPs.

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Signaling Point of Interconnection (SPOI)

The term "Signaling Point of Interconnection" denotes the point of interconnection between Iowa Network and the customer for purposes of exchanging SS7 signaling messages. The SPOIs are located in the metropolitan areas of Des Moines, Iowa and Minneapolis/St. Paul, Minnesota.

Singing Return Loss

The term "Singing Return Loss" denotes the frequency weighted measure of return loss at the edges of the voiceband (200 to 500 Hz and 2500 to 3200 Hz), where singing (instability) problems are most likely to occur.

Subtending End Office of an Access Tandem

The term "Subtending End Office of an Access Tandem" denotes an End Office Switch that has final trunk group routing through that tandem.

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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 Switched 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 to provide the customer with Switched Access Service or to provide changes to existing services.

5.1.1 Ordering Conditions

Switched Access Service may be ordered from MIEAC between the points of termination set forth in Section 8 following. A customer may order any number of services of the same type (e.g., Feature Group, Interface Group, etc.), between MIEAC's central access tandem and a customer point of termination set forth in Section 8 following. Switched Access Service between a customer's premises and the point of termination set forth in Section 8 following is solely the responsibility of the customer and must be provided by the customer or ordered from another carrier. Switched Access Service from the points of interconnection set forth in Section 8 following to an End Office must be ordered from a Routing Exchange Carrier or other Exchange Telephone Company. MIEAC will determine the Switched Transport facilities to be provided between a MIEAC Toll Transfer Point set forth in Section 8 following and MIEAC's central access tandem on the basis of the capacity ordered. (T)

The customer shall supply all the necessary information to provide service, (e.g., customer name and point of termination location, customer contact and premises location, facility interface, etc.).

**CENTRALIZED EQUAL ACCESS SERVICE**

5.2 Access Order (Cont'd)

5.2.1 Access Order Information (Cont'd)

(A) (Cont'd)

projected percentage of interstate use (PIU) as set forth in 2.3.11 preceding, and the IC to which the service is connected or, in the alternative, specify the means by which the FGA communications are transported to another state.

- (B) For Feature Group B, Feature Group C and Feature Group D Switched Access Service, the customer shall specify the number of busy hour minutes of capacity (BHMC) needed to carry traffic from the End Office of a Routing Exchange Carrier set forth in Section 9 following to MIEAC's central access tandem by type of BHMC and Local Transport options and Local Switching options desired. This information is used to determine the number of transmission paths as set forth in Section 6.5.5 following. The basic traffic type must also be specified using the same categories as described in Section 6.1.1 following, to enable efficient provisioning and billing functions.

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**CENTRALIZED EQUAL ACCESS SERVICE**

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

5.2 Access Order (Cont'd)

5.2.1 Access Order Information (Cont'd)

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**CENTRALIZED EQUAL ACCESS SERVICE**5. Ordering Options for Switched Access Service (Cont'd)5.2 Access Order (Cont'd)5.2.1 Access Order Information (Cont'd)

(B) The customer must supply a copy of the order to each Routing Exchange Carrier involved in providing the access service.

(C) The BHMC may be determined by the customer in the following manner. For each average business day (i.e., 8 A.M. to 11 P.M., Monday through Friday, excluding national holidays), the customer shall determine the highest number of minutes of use for a single hour (e.g., 55 minutes in the 10-11 A.M. hour). The customer shall, for the same hour period (i.e., busy hour) for each of twenty (20) consecutive business days, pick the twenty (20) consecutive business days in a calendar year which add up to the largest number of minutes of use. Both originating and terminating, if applicable, minutes shall be included. The customer shall then determine the average busy hour minutes of capacity (i.e., BHMC) by dividing the largest number of minutes of use figure for the same hour period for the consecutive twenty (20) business day period by twenty (20). This computation shall be performed for each End Office the Customer wishes to serve. These determinations thus establish the forecasted BHMC for each End Office.

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**CENTRALIZED EQUAL ACCESS SERVICE**5. Ordering Options for Switched Access Service (Cont'd)5.2 Access Order (Cont'd)5.2.1 Access Order Information (Cont'd)

- (D) When the Customer orders FGD service with the CCSA option described in 6.1.1(E) and 6.1.3(B)(3) following, the customer shall place an access order with Iowa Network for the installation of the Signaling Network Access Connections and provide additional information such as STP Point codes, location identifier codes and circuit identification codes, etc., as required by MIEAC. For FGD ordered with the CCSA option, the customer shall work cooperatively with MIEAC to determine the configuration of SS7 Signaling Network Access Connections required to handle its signaling traffic. MIEAC, in cooperation with Iowa Network, shall have the final authority for managing the joint network and ensuring optimal utilization of the SNACs including link and port facilities. (T)
- (E) For 8XX Access Service, the customer shall order the service in accordance with the preceding provisions set forth for Feature Group D. All 8XX traffic originating from Routing Exchange Carriers (REC) End Offices is routed via the MIEAC central access tandem. (T)  
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**CENTRALIZED EQUAL ACCESS SERVICE**5. Ordering Options for Switched Access Service (Cont'd)5.2 Access Order (Cont'd)5.2.3 Access Order Modifications (Cont'd)(A) Service Date Change Charge (Cont'd)

appropriate cancellation charges applied unless the customer indicates that billing for the service is to commence as set forth in Section 5.2.4(A) following. If MIEAC determines it can accommodate the customer's request without delaying service dates for orders of other customers, a new service date may be established that is prior to the original standard or negotiated interval service date.

If the service date is changed to an earlier date, and MIEAC determines additional labor or extraordinary costs are necessary to meet the earlier service date requested by the customer, the customer will be notified by MIEAC that Expedited Order Charges as set forth in (D) following apply. Such charges will apply in addition to the Service Date Change Charge.

A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The applicable charge is:

	<u>Charge</u>
Service Date Change Charge, per order	\$30.00

(B) Partial Cancellation Charge

Any decrease in the number of ordered lines or busy hours minutes of capacity will be treated as a partial cancellation and the charges as set forth in Section 5.2.4(B) following will apply.

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**CENTRALIZED EQUAL ACCESS SERVICE**5. Ordering Options for Switched Access Service (Cont'd)5.4 Access Orders for Services Provided by MIEAC and Exchange Telephone Companies (Cont'd)

(A) (Cont'd)

(2) (Cont'd)

(a) For Feature Group A and Feature Group B Switched Access Services, the Customer must place the order with MIEAC. The Customer must also supply a copy of the order to each Exchange Telephone Company involved in providing the service and subtending MIEAC's central access tandem. (T)

(b) For Feature Group C or Feature Group D Switched Access Service, the Customer must place the order with the Exchange Telephone Company in whose territory the End Office is located. The Customer must also supply a copy of the order to MIEAC. (T)  
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(3) For the Switched Access Services ordered set forth in (1) and (2) preceding, the Customer must also supply a copy of the order to the Exchange Telephone Company in whose territory a Customer premises is located and any other Exchange Telephone Company involved in providing the service. (T)  
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5. Ordering options for Switched Access Service (Cont'd)

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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. MIEAC provides a two-way communications path between a point of interconnection with the transmission facilities of an Exchange Telephone Company at a location listed in Section 8 following and MIEAC'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 MIEAC's central access tandem. MIEAC's central access tandem is MIEAC's switching system located in Plymouth and Minneapolis, Minnesota, that 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 located at a MIEAC Toll Transfer Point as set forth in section 8 following. Customers may, at their option, choose to terminate all or a portion of their traffic through the use of Access Service providers other than MIEAC. The customer's point of termination is the demarcation point or network interface between MIEAC's communications facilities and customer provided facilities.

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

**6.1.1 Feature Group Arrangements and Manner of Provision**

Switched Access Service is provided in four 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). In addition, Common Channel Signaling Access and Interim NXX Translation is provided in conjunction with Feature Group D Switched Access Service. Following is a brief description of each Feature Group arrangement, and the CCSA.

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**CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)(C) Feature Group C (FGC)

Feature Group C access, which is available only to providers of MTS and WATS, provides trunk side access at a customer's point of termination for the customer's use in originating and terminating interstate communications. Existing FGC access will be converted to FGD access when it becomes available in an End Office or centralized access tandem. A more detailed description of FGC access is provided in Section 6.2.3 following.

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(D) Feature Group D (FGD)

FGD Access, which is available to all customers, provides trunk side access at a customer's point of termination with an associated uniform 10XXX or 101XXX access code for the customers use in originating and terminating communications, unless a Routing Exchange Carrier's end office is unable to provide a uniform 10XXX or 101XXX code.

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(E) Joint Provision of Common Channel Signaling Access (CCSA)

CCSA is a nonchargeable optional feature available with FGD access service. CCSA allows the customer to establish a connection with the Iowa Network/MIEAC jointly operated CCSAN at the Signaling Points of Interconnection (SPOIs) in the Des Moines, Iowa metropolitan area and Minneapolis/St. Paul, Minnesota metropolitan area for transporting call control information. Transmission specifications, diversity requirements, and



**CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)(E) Joint Provision of Common Channel-Signaling Access (CCSA) (Cont'd)

testing parameters are set forth in Technical Reference TR-TSV-000905 and TR-TSV-000954.

An STP in Des Moines, Iowa will be owned and operated by Iowa Network, for CCSA in Iowa while an STP-in Plymouth, Minnesota will be owned and operated by MIEAC for CCSA in Minnesota. However, Iowa Network and MIEAC will cooperate to provide redundancy to their respective CCSA networks. Iowa Network and MIEAC will jointly provide the SNACs which include the ports on Iowa Network and MIEAC STPs and the link facilities between the STPs.

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The CCSAN consists of a mated pair of STPs which operate completely parallel to each other, a pair of diverse facilities connecting the STPs, and access links to each of the local telephone company SP/SSPs from each STP. This configuration ensures network reliability by providing geographic diversity and redundancy of signal switching and transport.

Iowa Network will provide the signaling facilities between the Iowa Network Routing Exchange Carrier End Offices and the Des Moines, Iowa STP. MIEAC will provide the signaling facilities between the MIEAC Routing Exchange Carrier End Offices and the Plymouth, Minnesota STP. The interstate facilities connecting the two STPs will be jointly provided by Iowa Network and MIEAC. The access link to the MIEAC STP from the Iowa Network Routing Exchange Carrier end

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**CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Feature-Group Arrangements and Manner of Provision (Cont'd)(E) Joint Provision of Common Channel Signaling Access (CCSA) (Cont'd)

office is provided by Iowa Network to the centralized access tandem and then jointly by Iowa Network and MIEAC to the MIEAC STP. Likewise, the access link to the Iowa Network STP from the MIEAC Routing Exchange Carriers is provided over MIEAC facilities to the MIEAC centralized equal access tandem, and then over jointly provided facilities to the Iowa Network STP.

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The interexchange carrier is responsible for the signaling facilities from the interexchange carrier's STPs, which shall consist of a quad (4) of 56 Kbps links, to the SPOIs on the Iowa Network/MIEAC SS7 network. Iowa Network and MIEAC will each provide a pair of Signaling Network Access Connections (SNACs) which includes any facilities required between the Iowa Network/MIEAC STPs and the interexchange carrier SPOIs and the ports on the mated STPs. An interexchange carrier who wishes to connect a single SP or SSP to the CCSAN may do so by providing a pair of 56 Kbps links, one to a SPOI in Des Moines, and one to a SPOI in Minneapolis/St. Paul, and Iowa Network and MIEAC will provide the corresponding SNACs.

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The use of the SNAC and the STP Port will be bidirectional in that SS7 message sequences may be originated from either the Customer's network or from the MIEAC network. The message sequences initiated from the MIEAC network may include ISDN User Part (ISUP) messages, Transaction Capabilities Application Part (TCAP) messages in support of functions such as 8XX Database queries and Line Information Data Base (LIDB) queries, and other messages in support of services for which the networks of both the Customer and MIEAC are used.

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Certain regulations now appearing on this page previously appeared on Page 6-3.3.

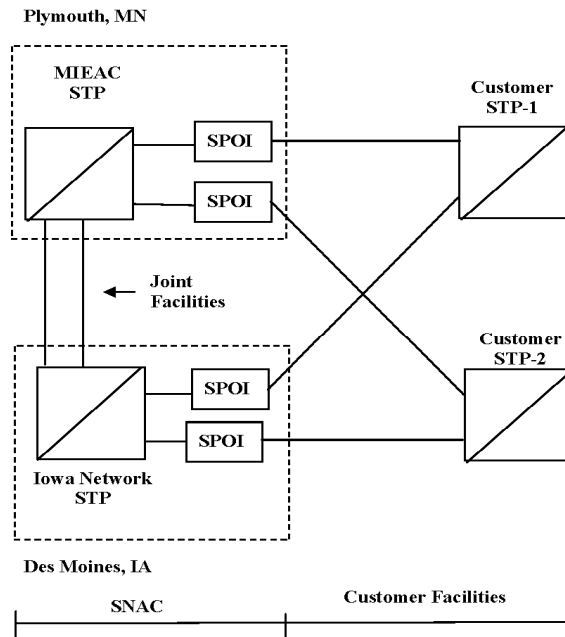
**CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)

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(E) Joint Provision of Common Channel Signaling Access (CCSA) (Cont'd)

The following diagram illustrates how the Iowa Network/MIEAC SS7 network will interconnect with the customer's SS7 network, independent of the voice (CEA) communications trunks.

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SNAC - Signaling Network Access Connection  
SPOI - Signaling Point of Interconnection  
STP - Signal Transfer Point

**CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Feature Group Arrangements  
and Manner-of Provision (Cont'd)(F) 8XX Access Service

8XX Access Service is an originating service that is provided via 8XX Access Service switched trunk groups, or may be provided in conjunction with FGC or FGD. The service provides for the forwarding of end user dialed 8XX calls from the Routing Exchange Carrier (REC) to the MIEAC Service Switching Point (SSP), which will initiate a query to an 8XX database to perform the customer identification function. The call is forwarded to the customer based on the Carrier Identification Code (CIC) received from the 8XX data base.

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When 8XX Access Service traffic is combined in the same trunk group arrangement with other traffic, usage for the 8XX Access Service traffic will be aggregated with the other traffic for billing purposes. When separate trunk groups are provided for 8XX Access Service, usage will be provided separately. A more detailed description of 8XX Access Service is as set forth in 6.2.4.

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6. Switched Access Service (Cont'd)

### 6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)

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**CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)

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(G) Manner of Provision

Switched Access is furnished in quantities of lines for FGA access or busy hour minutes of capacity (BHMCs) for FGB, FGC and FGD access. MIEAC will determine the Switched Transport facilities to be provided on the basis of the busy hour minutes of capacity ordered as set forth in Section 5.2 preceding. Switched Access is furnished in trunks between the customer's premises and the points of termination set forth in Section 8 following.

BHMCs are differentiated by type and directionality of traffic carried over a Switched Access Service arrangement. Differentiation of traffic among BHMC types is necessary for MIEAC 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 a customer's

**CENTRALIZED EQUAL ACCESS SERVICE**6. Switch Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)(G) Manner of Provision (Cont'd)

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point of termination. Terminating BHMCs represent access capacity for carrying traffic from a customer's point of termination to the end user. When ordering capacity for Switched Access Service, the customer must at a minimum specify such access capacity in terms of originating BHMCs and Terminating BHMCs.

Because some customers will wish to further segregate their originating traffic into separate trunk groups, Originating BHMCs are further categorized into Domestic, 8XX, 9XX, operator assisted and IDDD. Domestic BHMCs represent access capacity for carrying only domestic traffic other than 8XX and 900 traffic; operator assisted BHMCs represent access capacity for carrying traffic originated by dialing 110+11; IDDD BHMCs represent access capacity for carrying only international traffic; and, 8XX and 9XX BHMCs represent access capacity for carrying, respectively, only 8XX and 9XX traffic. When ordering such types of access capacity, the customer must specify Domestic, 8XX, 9XX, operator assisted or IDDD BHMCs.

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6.1.2 Ordering Options and Conditions

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

**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 provision of Switched Access Service: (C)

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

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

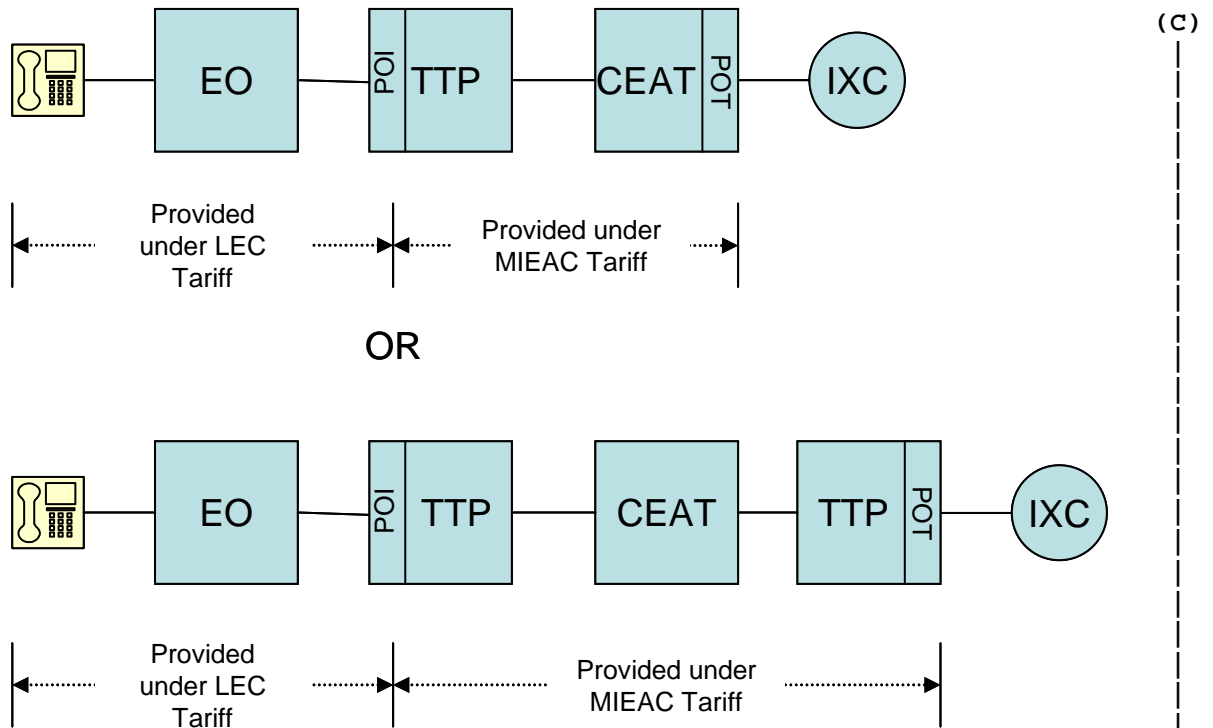
Common Channel Signaling Service (described in Section 6.1.3(D) following)

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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)

Note: The POI TTP and the POT TTP as shown in this diagram may be the same TTP or different TTPs.

CEAT - MIEAC's Centralized Equal Access Tandem  
CEA - Centralized Equal Access

EO - End Office  
IXC - Interexchange Carrier  
LT - Local Transport  
POI - Point of Interconnection  
POT - Point of Termination  
TTP - Toll Transfer Point

**CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Switched Transport

Switched Transport provides for a High Capacity frequency transmission path composed of facilities determined by MIEAC. The two-way frequency transmission path permits the transport of calls from MIEAC's central access tandem to a MIEAC Toll Transfer Point listed in Section 8 following and from such MIEAC Toll Transfer Point to MIEAC's central access tandem.

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Switched Transport is provided by MIEAC at a customer's point of termination. A customer's point of termination may be located at MIEAC's central access tandem or at MIEAC's Toll Transfer Points as set forth in Section 8 following.

Exchange Telephone Company services provide connection between the Routing Exchange Carriers' End Offices and MIEAC's Toll Transfer Points under existing Exchange Telephone Company access service tariffs as in effect from time to time.

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Switched Transport is composed of the following rate elements, the rates for which are set forth in Section 6.8: CEA Switching, Originating Transport, Originating Tandem Switching, Wireless 8XX Originating, Terminating Transport and Terminating Tandem Switching.

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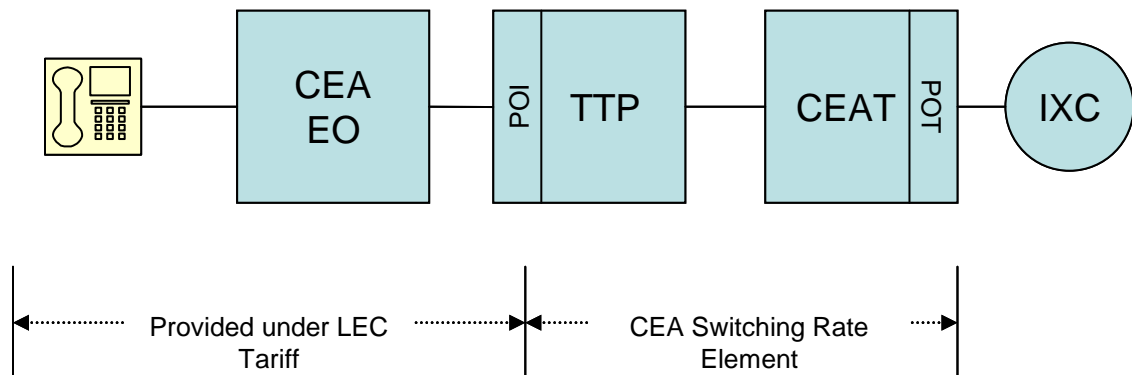
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**CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Switched Transport (Cont'd)

When a customer's Point of Termination is at a MIEAC Central Access Tandem and the call was originated from a CEA End Office, the CEA Switching rate element applies per access minute. This application of the CEA Switching rate element is shown in the following diagram:



CEAT - MIEAC's Centralized Equal Access Tandem  
 CEA - Centralized Equal Access  
 EO - End Office  
 IXC - Interexchange Carrier  
 LT - Local Transport  
 POI - Point of Interconnection  
 POT - Point of Termination  
 TTP - Toll Transfer Point

**CENTRALIZED EQUAL ACCESS SERVICE**

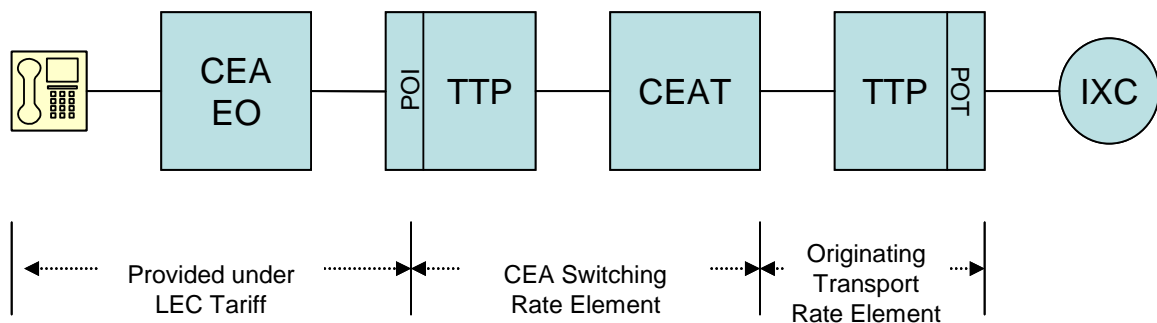
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**CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Switched Transport (Cont'd)

When a customer's Point of Termination is at a Toll Transfer Point other than a MIEAC Central Access Tandem and the call was originated from a CEA End Office, the CEA Switching rate element and the Originating Transport rate element apply per access minute. The application of these rate elements is shown in the following diagram:



Note: The POI TTP and the POT TTP as shown in this diagram may be the same TTP or different TTPs.

CEAT - MIEAC's Centralized Equal Access Tandem  
 CEA - Centralized Equal Access  
 EO - End Office  
 IXC - Interexchange Carrier  
 LT - Local Transport  
 POI - Point of Interconnection  
 POT - Point of Termination  
 TTP - Toll Transfer Point

**CENTRALIZED EQUAL ACCESS SERVICE**

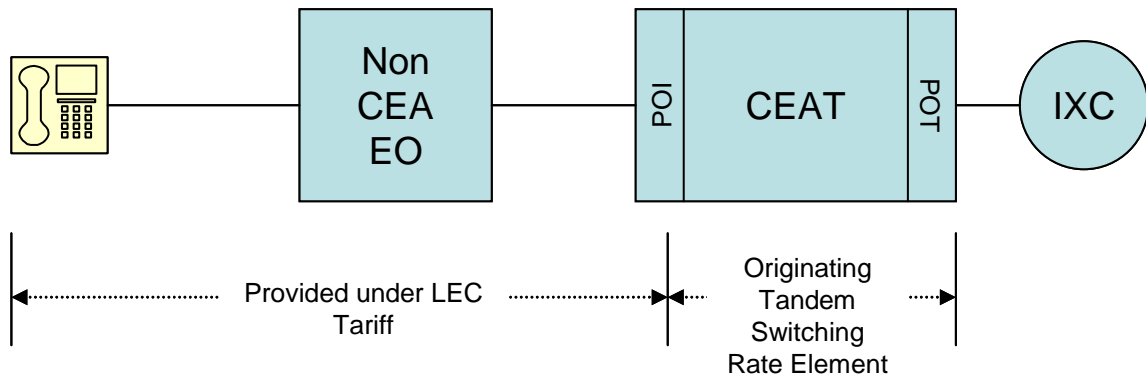
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**CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Switched Transport (Cont'd)

When a customer's Point of Termination is at a MIEAC Central Access Tandem, and the call was originated from a non-CEA End Office with a Point of Interconnection also at a MIEAC Central Access Tandem, the Originating Tandem Switching rate element applies per access minute. The application of this rate element is shown in the following diagram:

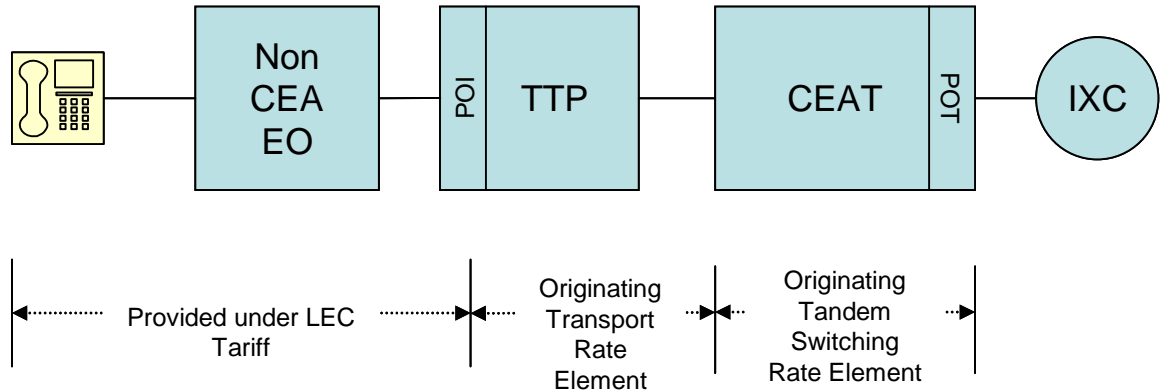


CEAT - MIEAC's Centralized Equal Access Tandem  
 CEA - Centralized Equal Access  
 EO - End Office  
 IXC - Interexchange Carrier  
 LT - Local Transport  
 POI - Point of Interconnection  
 POT - Point of Termination  
 TTP - Toll Transfer Point

Certain regulations previously found on this page, now appear on pages 6-12.8 and 6-36.1

**CENTRALIZED EQUAL 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)

When a customer's Point of Termination is at a MIEAC Central Access Tandem, and the call was originated from a non-CEA End Office with a Point of Interconnection at a Toll Transfer Point other than a MIEAC Central Access Tandem, the Originating Tandem Switching rate element and the Originating Transport rate element apply per access minute. The application of these rate elements is shown in the following diagram:

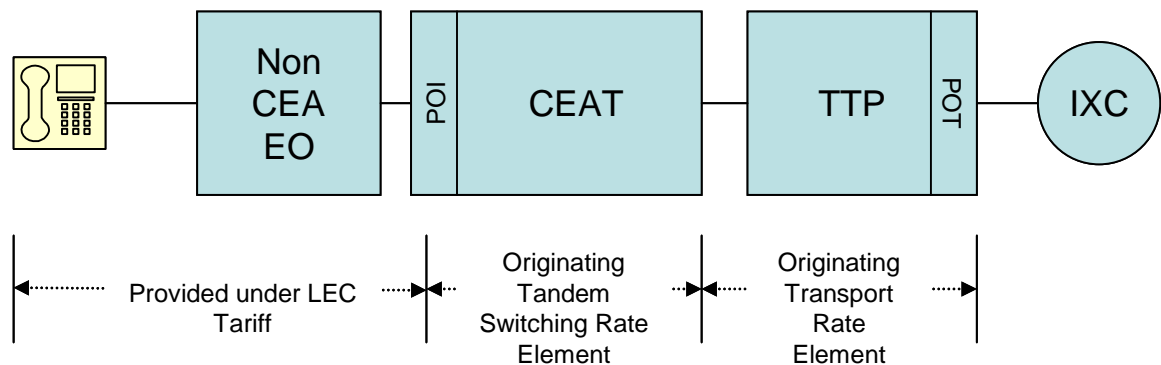


CEAT - MIEAC's Centralized Equal Access Tandem  
 CEA - Centralized Equal Access  
 EO - End Office  
 IXC - Interexchange Carrier  
 LT - Local Transport  
 POI - Point of Interconnection  
 POT - Point of Termination  
 TTP - Toll Transfer Point



**CENTRALIZED EQUAL 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)

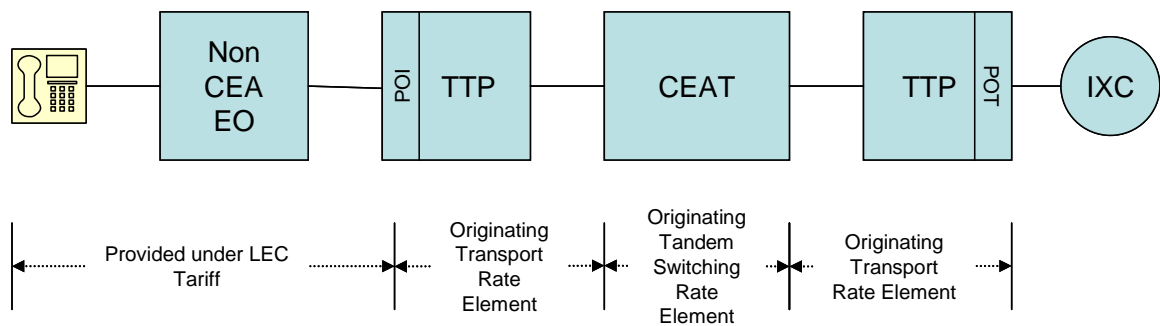
When a customer's Point of Termination is at a Toll Transfer Point other than a MIEAC Central Access Tandem, and the call was originated from a non-CEA End Office with a Point of Interconnection at a MIEAC Central Access Tandem, the Originating Tandem Switching rate element and the Originating Transport rate element apply per access minute. The application of these rate elements is shown in the following diagram:



CEAT - MIEAC's Centralized Equal Access Tandem  
 CEA - Centralized Equal Access  
 EO - End Office  
 IXC - Interexchange Carrier  
 LT - Local Transport  
 POI - Point of Interconnection  
 POT - Point of Termination  
 TTP - Toll Transfer Point

**CENTRALIZED EQUAL 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)

When a customer's Point of Termination is at a Toll Transfer Point other than a MIEAC Central Access Tandem, and the call was originated from a non-CEA End Office with a Point of Interconnection at a Toll Transfer Point other than a MIEAC Central Access Tandem, the Originating Tandem Switching rate element and two Originating Transport rate elements apply per access minute. The application of these rate elements is shown in the following diagram:

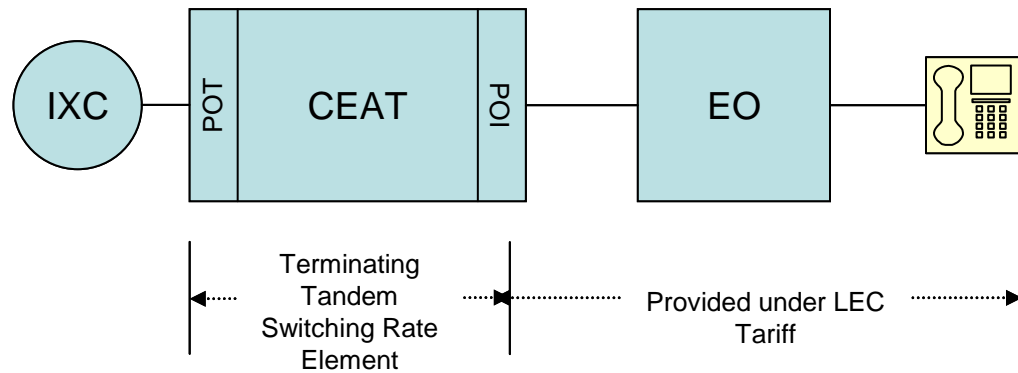


Note: The POI TTP and the POT TTP as shown in this diagram may be the same TTP or different TTPs.

CEAT - MIEAC's Centralized Equal Access Tandem  
 CEA - Centralized Equal Access  
 EO - End Office  
 IXC - Interexchange Carrier  
 LT - Local Transport  
 POI - Point of Interconnection  
 POT - Point of Termination  
 TTP - Toll Transfer Point

**CENTRALIZED EQUAL 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)

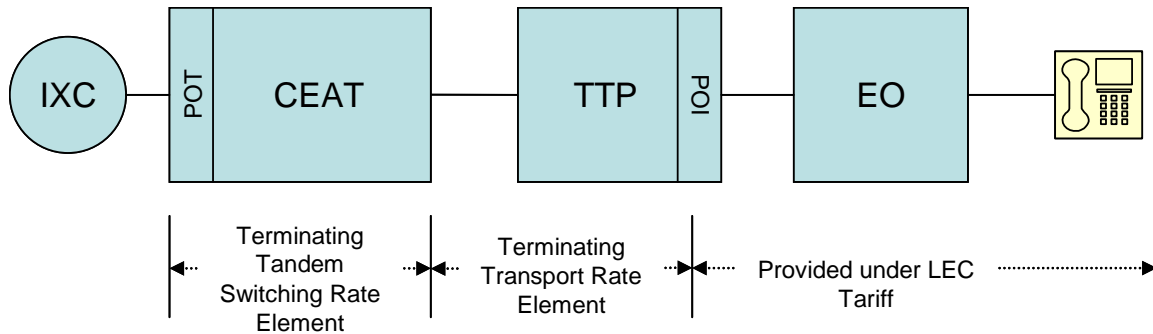
When a customer's Point of Termination is at a MIEAC Central Access Tandem and the call is terminating to either a CEA or non-CEA end office with a Point of Interconnection at a MIEAC Central Access Tandem, the Terminating Tandem Switching rate element applies per access minute. The application of this rate element is shown in the following diagram:



CEAT - MIEAC's Centralized Equal Access Tandem  
 CEA - Centralized Equal Access  
 EO - End Office  
 IXC - Interexchange Carrier  
 LT - Local Transport  
 POI - Point of Interconnection  
 POT - Point of Termination  
 TTP - Toll Transfer Point

**CENTRALIZED EQUAL 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)

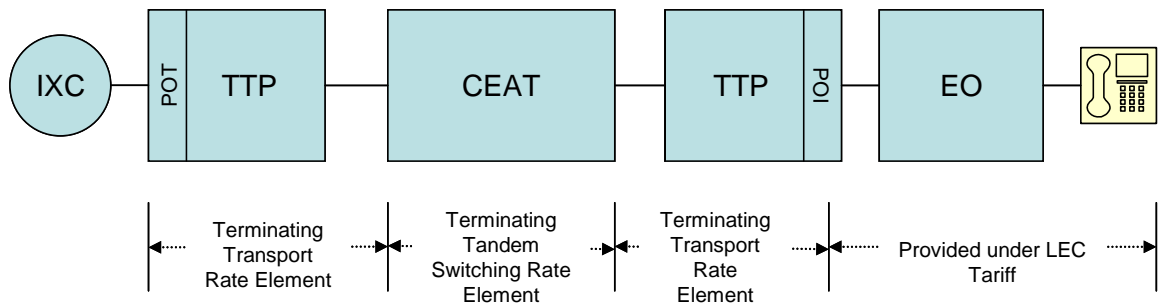
When a customer's Point of Termination is at a MIEAC Central Access Tandem and the call is terminating to either a CEA or non-CEA End Office with a Point of Interconnection other than a MIEAC Central Access Tandem, the Terminating Tandem Switching rate element and the Terminating Transport rate element apply per access minute. The application of these rate elements is shown in the following diagram:



CEAT - MIEAC's Centralized Equal Access Tandem  
 CEA - Centralized Equal Access  
 EO - End Office  
 IXC - Interexchange Carrier  
 LT - Local Transport  
 POI - Point of Interconnection  
 POT - Point of Termination  
 TTP - Toll Transfer Point

**CENTRALIZED EQUAL 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)

When a customer's Point of Termination is at a TTP other than a MIEAC Central Access Tandem and the call is terminating to either a CEA or non-CEA End Office with a Point of Interconnection other than a MIEAC Central Access Tandem, the Terminating Tandem Switching rate element and two Terminating Transport rate elements apply per access minute. The application of these rate elements is shown in the following diagram:

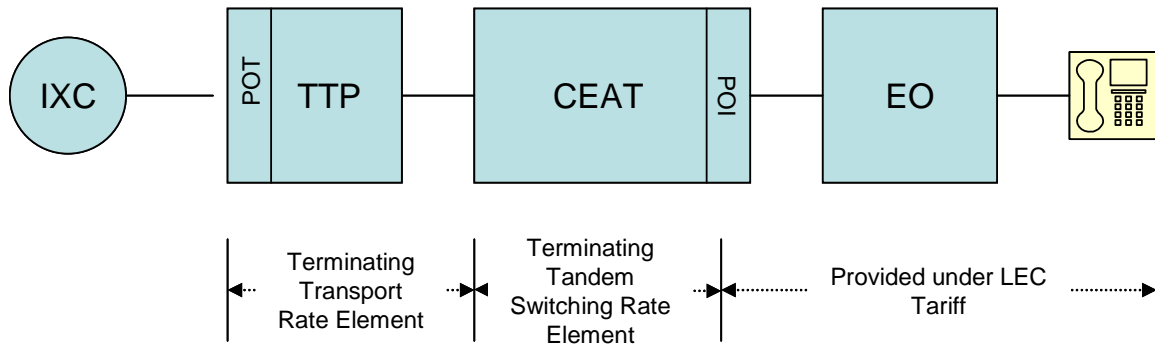


Note: The POI TTP and the POT TTP as shown in this diagram may be the same TTP or different TTPs.

CEAT - MIEAC's Centralized Equal Access Tandem  
 CEA - Centralized Equal Access  
 EO - End Office  
 IXC - Interexchange Carrier  
 LT - Local Transport  
 POI - Point of Interconnection  
 POT - Point of Termination  
 TTP - Toll Transfer Point

**CENTRALIZED EQUAL 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)

When a customer's Point of Termination is at a TTP other than a MIEAC Central Access Tandem and the call is terminating to either a CEA or non-CEA End Office with a Point of Interconnection at a MIEAC Central Access Tandem, the Terminating Tandem Switching rate element and the Terminating Transport rate element apply per access minute. The application of these rate elements is shown in the following diagram:



CEAT - MIEAC's Centralized Equal Access Tandem  
 CEA - Centralized Equal Access  
 EO - End Office  
 IXC - Interexchange Carrier  
 LT - Local Transport  
 POI - Point of Interconnection  
 POT - Point of Termination  
 TTP - Toll Transfer Point

**CENTRALIZED EQUAL 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)

International dialing may be provided as a capability associated with Feature Group C and Feature Group D. International dialing provides the capability of switching international calls with service prefix and address codes having more digits than are capable of being switched through standard FGC and FGD equipment.

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

(M)

(M)

Certain regulations found on this page previously appeared on Page 6-12.

**CENTRALIZED EQUAL 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)

(M)  
|  
(M)

(B) Nonchargeable Optional Features

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

(Z)

Certain regulations previously found on this page, now appear on page 6-36.1.



## **CENTRALIZED EQUAL ACCESS SERVICE**

6. Switch Access Service (Cont'd)

### 6.1 General (Cont'd)

### 6.1.3 Rate Categories (Cont'd)

(B) Nonchargeable Optional Features (Cont'd)

(1) Customer Specified Entry  
Switch Receive Level

This feature allows the customer to specify the receive transmission level at MIEAC's central access tandem. The range of transmission levels which may be specified is described in Technical Reference TRNWT-000334. This feature is available for Feature Groups A and B.

(2) Joint Provision of Common Channel Signaling Access (CCSA)

There are no recurring charges for this feature. If the customer requests MIEAC to reconfigure FGD service within band signaling to provide FGD service with the CCSA option, the request will be treated as a discontinuance of existing service and the installation of a new and the installation charges set forth in 6.8.1(C) (1) following will apply on a per SNAC basis.

(3) 8XX Database Query Service

8XX database query service is provided by MIEAC for 8XX traffic which originates at RECs End Offices.

Routing Exchange Carriers (RECs) may charge 8XX database query access fees in accordance with their tariff.

[illegible]

**CENTRALIZED EQUAL ACCESS SERVICE**

6. Switch Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) Nonchargeable Optional Features (Cont'd)

RESERVED FOR FUTURE USE

(D)

(D)

**CENTRALIZED EQUAL ACCESS SERVICE**

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(C)

RESERVED FOR FUTURE USE

(D)



(D)

**CENTRALIZED EQUAL ACCESS SERVICE**

6. Switched Access Service (Cont'd)

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

6.2.3 Feature Group C (FGC) (Cont'd)

(C) Testing Capabilities (Cont'd)

service, Additional Cooperative Acceptance Testing and Additional Automatic Testing will be provided as set forth in Section 13.3.4 following for FGC.

6.2.4 Feature-Group D (FGD)

(A) Description

- (1) FGD is provided at MIEAC's central access tandem.
- (2) FGD is provided as trunk side switching through the use of access tandem switch trunk equipment at MIEAC's central access tandem.
- (3) Basic FGD service will be provided with SS7 signaling.

(D)  
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|  
(D)  
(T)

**CENTRALIZED EQUAL 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)

## (4) (Cont'd)

Calls in the terminating direction will not be completed to 950-0XXX or 950-1XXX access codes, Emergency 911, Service Maintenance 611, Directory Assistance (411 or 555), local operator assistance (0- and 0+), and 10XXX or 101XXXX access codes. FGD may not be switched, in the terminating direction, to Switched Access Service Feature Groups A, B or C.

(T)

The customer will also be billed access charges by Routing Exchange Carriers and other Exchange Telephone Companies for the provision of access service between a MIEAC Toll Transfer Point listed in Section 8 following and the End Offices served by MIEAC's central access tandem.

(T)

- (5) FGD switching will be arranged to accept calls from telephone exchange service locations without the need for dialing the 10XXX or 101XXXX uniform access code. Each telephone exchange service line may be marked with a code to identify which interexchange carrier code its calls will be directed to for interLATA and intraLATA service. The access code for FGD switching is a uniform access code of the form 10XXX or 101XXXX, unless a Routing Exchange Carrier's End Office switch is unable to provide a uniform 10XXX or 101XXXX code. A single access code will be the assigned number of all FGD access provided to the customer by MIEAC.

(T)

(T)

(T)

(T)

**CENTRALIZED EQUAL 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)

(5) (Cont'd)

(T)

When the 10XXX or 10XXXX access code is used, FGD switching also provides for dialing the digit 0 (zero) for access to the customer's operator, or the end-of-dialing digit (#) for cut-through access to the customer's premises, or 911 for access to the emergency reporting service of a Routing Exchange Carrier.

- (6) When a customer has had FGB access and subsequently replaces the FGB access with FGD access, at the- customer's request and where facilities permit, MIEAC will, for a period of ninety (90) days, direct calls dialed by the customer's end users using the customer's previous FGB access code to the customer's FGD access service. The customer must be prepared to handle normally dialed FGD calls as well as calls dialed with the FGB access code which require the customer to receive additional address signaling from the end user. Such calls will be rated as FGD.

**CENTRALIZED EQUAL ACCESS SERVICE**6. Switch 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)

- |     |   |  |
|-----|---|--|
| (7) | Unless prohibited by technical limitations, the customer's 8XX traffic may, at the option of the customer, be combined in the same trunk group arrangement with the customer's other traffic. When required by technical limitations, or at the request of the customer, a separate trunk group will be established for 8XX database traffic. | (T)<br>(T)                             |
|     |   | (T)                                    |
| (8) | 8XX Access Service is an originating service utilizing Trunkside Access which provides for the forwarding of end user dialed 8XX calls to a customer based on the Carrier Identification Code (CIC) received from the 8XX Data base operator 8XX Access Service provides the customer with 8XX call origination in all REC End Offices.       | (T)<br> <br>(T)<br>(D)<br> <br><br>(D) |

**CENTRALIZED EQUAL ACCESS SERVICE**6. Switch 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)

- (8) When an 8XX call is originated by an end user, MIEAC will perform the customer identification function based on the dialed digits in accordance with 8XX Database.

(T)

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(T)

(D)

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(D)

The customer's 8XX traffic may be combined in the same trunk group arrangement with the customer's non-8XX Access Service traffic or provisioned on a separate trunk group, unless prohibited by technical limitations.

(T)

|

Measurement of 8XX Access Service usage shall be in accordance with the regulation set forth in 6.7.7 following, for Trunkside Access. Specifically, 8XX Access Service originating usage, whether combined with non-8XX Access Service usage on trunk groups or providing using dedicated trunk

(T)



**CENTRALIZED EQUAL 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)

- (8) groups, shall be measured in the same manner as specified for non-8XX Access Service usage over Trunkside Access. (T)

MIEAC must be notified twenty-four (24) hours prior to any media stimulation. MIEAC maintains the right to apply protective controls, i.e., those actions such as call gapping, to ensure the provisioning of acceptable service to all telecommunications users of MIEAC's network services.

(B) Transmission Performance

FGD is provided with Type A Transmission Specifications.

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. (T)

(C) Testing Capabilities

FGD is provided, in the terminating direction where equipment is available, with seven (7) 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, loop around test line, short circuit test line and open circuit test line. in addition to the tests described in Section 6.1.5 preceding which are included with the installation of service, Additional Cooperative Acceptance

**CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service (Cont'd)6.4 Transmission Specifications (Cont'd)

All service configurations operated by MIEAC after the effective date of this tariff will conform to the transmission specifications contained in this tariff.

The transmission specifications contained in this Section are immediate action limits. Acceptance limits are set forth in Technical Reference TR-NWT-000334. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

6.4.1 Interface Groups

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

(M)  
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(M)  
(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.

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

(M)  
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|  
(M)

Certain regulations found on this page were previously on pages 6-12 and 6-13.

**CENTRALIZED EQUAL ACCESS SERVICE**

6. Switched Access Service (Cont'd)

6.6 Obligations of the Customer

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

6.6.1 Jurisdictional Report Requirements

When a customer orders Switched Access Service for both interstate and intrastate use, the customer is responsible for providing reports as set forth in Section 2.3.11 preceding. Charges will be apportioned in accordance with those reports. The method to be used for determining the interstate charges is set forth in Section 2.3.12 preceding.

6.6.2 Supervisory Signaling

The customer's facilities shall provide the necessary on-hook, off-hook, answer and disconnect supervision.

6.6.3 Trunk Group Measurement 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 MIEAC. These data will be used to monitor trunk group utilization and service performance and will be based on previously arranged intervals and format.

(Z)

**CENTRALIZED EQUAL ACCESS SERVICE**6. Switched Access Service (Cont'd)6.8 Rates and Changes6.8.1 Switched Transport Rates

(A)	<u>Rates</u>	<u>Rate Per Access Minute</u>	
	-CEA Switching	.0169	(T)
	-Originating Transport	.0099	
	-Originating Tandem Switching	.0037	
	- Wireless 800 Originating	.0139	
	Applies to 8XX traffic originating from wireless carrier customers		
	-Terminating Transport	.0008	
	-Terminating Tandem Switching	.0024	
			(T)

(B)	<u>Network Blocking Charge</u>	<u>Rate Per Call Blocked</u>
	Applies to FGD only	\$0.0070

**CENTRALIZED EQUAL ACCESS SERVICE**8. **Customer's Point of Termination Information**8.1 **General Information**

**CENTRALIZED EQUAL ACCESS SERVICE** is available to customers that interconnect with MIEAC's facilities at either MIEAC's central access tandem or at the Toll Transfer Points listed in this section on which the central offices of the Routing Exchange Carriers home their traffic. The V & H coordinates for these MIEAC facilities are set forth in the third column of Section 8.2 following.

8.2 **Customer's Point of Termination**

<u>Central Access Tandem</u>	<u>Toll Transfer Points</u>	<u>V &amp; H Coordinates</u>		
		<u>Vert.</u>	<u>Horz.</u>	
Plymouth	Plymouth	5787	4545	( T )
	Duluth	5352	4529	
	Fargo	5614	5181	
	Grand Forks	5418	5300	
Minneapolis	Minneapolis (612 2nd Ave S.)	5780	4526	( T )
Minneapolis	Minneapolis (511 11th Ave. S.)	5780	4526	( T )
	Owatonna	5953	4438	
	Rochester	5916	4326	
	St. Cloud	5721	4703	
	Wadena	5604	4916	
	Windom	6116	4692	

**CENTRALIZED EQUAL ACCESS SERVICE**

9. Routing Exchange Carriers (Cont'd)

9.1 Exchanges and Localities (Cont'd)

RECs

Delavan Telephone Co.

(D)

Dunnell Telephone Co.

Eagle Valley Tel. Company

East Otter Tail Tel. Co.

Easton Telephone Company

Eckles Telephone Company

Emily Cooperative Telephone Company

Farmers Mutual Tel. Co.

Federated Telephone Coop

Federated Utilities

(N)

Felton Telephone Company

Garden Valley Tel. Co.

Gardonville Coop Tel. Assn.

Granada Telephone Co.

Halstad Telephone Co.

(D)

Harmony Telephone Co.

Certain material previously appearing on this page now appears on Page 9-3.

**CENTRALIZED EQUAL ACCESS SERVICE**9. **Routing Exchange Carriers** (Cont'd)9.1 **Exchanges and Localities** (Cont'd)**RECs**

Hills Telephone Company	(M)
Home Telephone Company	
Hutchinson Tel. Co.	(M)
Integra Telecom	(N)
Interstate Telephone Coop	
Johnson Telephone Co.	
Kasson-Mantorville Tel.	
Lakedale Telephone Co.	
Lonsdale Telephone Co.	
Loretel Systems	
Lowry Telephone Company	
Madelia	
Manchester-Hartland Telephone Company	
Melrose Telephone Co.	
Midwest Telephone Co.	
Minnesota Lake Tel. Co.	
Minnesota Valley Tel. Co.	
New Ulm Telephone Co.	(N)
Northland Telephone Co.	
Osakis Telephone Company	

Certain material previously appearing on this page now appears on Page 9-4.

**CENTRALIZED EQUAL ACCESS SERVICE**9. **Routing Exchange Carriers** (Cont'd)9.1 **Exchanges and Localities** (Cont'd)**RECs**

Park Region Mutual Tel. Co.	(M)
Paul Bunyon Rural Tel. Co.	
Peoples Telephone Co.	
Pine Island Telephone Co.	
Red River Telephone Assn.	(M)
Rothsay Telephone Co.	
Runestone Telephone Assn.	
Sherburne County Rural	
Sioux Valley Telephone Co.	
Sleepy Eye Telephone Co.	
Spring Grove Cooperative Telephone Co.	(N)
Twin Valley-Ulen Tel.	
Valley Telephone Company	
West Central Tel. Assn.	
Western Telephone Co.	(N)
Wikstrom Telephone Co.	(Z)
Winnebago Coop Tel. Assn.	
Winthrop Telephone Co.	
Wolverton Telephone Co.	
	(D)