

TC Systems, Inc.
P.S.C. No. 7 -- Telephone
Access Services
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Section 4
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SECTION 4 – CALL COMPLETION SERVICE

4.1 Call Completion Service

Call Completion Service (also called Feature Group D or FGD Service) provides for the capability of originating and terminating long distance calls to and from an End User's premises to a Customer's facilities via the Company's switch. Transport between the Company's switch and the Customer's premises are provided via Digital Transmission Services. (T)

Toll Free 8YY Transit Traffic Service is an access service in which the Company transports Toll Free traffic originated by a third party who is not an end user or other user of the Company's local exchange service through its wire center to an Interexchange Carrier Customer.

Connectivity options for Toll Free 8YY Transit traffic service include (1) direct connection utilizing a Direct end Office Trunk (DEOT) from the Company's switch to the IXC, or (2) indirect connection via a tandem provider's switch.

4.1.1 Call Completion Service Arrangement

Call Completion is provided as a trunkside connection, Feature Group D (FGD), to the Company's switches with an associated 10XXX access code for the Customer's use in originating and terminating communications. (T)

4.1.2 Manner of Provisioning

Call Completion Service is provisioned as FGD at the DS1 level using D3/D4 format on a per trunk basis and is differentiated by type and directionality of transmission. Originating traffic type represents capacity for carrying traffic from the end user to the Customer or Toll Free Transit Traffic originated by a third party who is not an end user of the Company; Terminating traffic represents capacity for carrying traffic from the customer to the End User. All traffic must be associated with Customer-provided Carrier Identification Code (CIC).

An out of band signaling connection (Common Channel Signaling Access Services Port) is required in conjunction with FGD service equipped with out of band signaling. Out of band signaling allows the Customer to pass call set-up information over a path which is separate from the message path utilizing Signaling System 7 (SS7) protocol. This connection is provided at the DS0 level and provides the interconnection between the Company's Signal Transfer Point (STP) and the Customer's Signaling Point of Interconnection (SPOI). (T)

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4.1 Call Completion Service (Cont'd)

4.1.3 Provisioning and Description of FGD

FGD is provided as trunk and MF-Pulsing side switching and may be provided with wink start signals and answer and disconnect supervisory signaling. You may also specify out of band signaling.

FGD switching is provided with multi-frequency address or out of band signaling. Up to 12 digits of the called party number dialed by the customer's end user using dual tone multi-frequency or dial pulse address signals will be provided by the Company to the customer's premises where Call Completion Service terminates. Such address signals are subject to the ordinary transmission capabilities of the Digital Transmission Service provided. (T)

Calls in the terminating direction will not be completed to 950-XXXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 or 555-1212), service codes 611 and 911, or 10XXX access codes.

The access code for FGD switching is a uniform access code of the form 10XXX. A single access code will be the assigned number of all FGD access provided to the customer by the Company. No access code is required for calls to a customer over FGD facilities if the end user's service is arranged for presubscription. (T)

Where no access code is required, the number dialed by the customer's end user shall be a seven or ten digit number for calls in the North America Numbering Plan (NANP), except for 00- dialed calls which are routed to the pre-designated customer. For international calls outside the NANP, a seven to twelve digit number may be dialed. The form of the numbers dialed by the customer's end user is NXX-XXXX, 0 or 1 + NXX XXXX, NPA + NXX-XXXX, 0 or 1 + NPA + NXX-XXXX, and where the Company switch is equipped for International Direct Distance Dialing (IDDD), 01 + CC + NN or 011 + CC +NN. (T)

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4.1 Call Completion Service (Cont'd)

4.1.3 Provisioning and Description of FGD (Cont'd)

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

Optional features available with FGD are:

- A. Automatic Number Identification (ANI) Subject to the limitations stated herein above, this option provides the automatic transmission of a ten digit number and information digits to the customer's premises for originating calls to identify the calling station. The ANI feature is an end office software function which is associated on a call-by-call basis with all individual transmission paths in a trunk group. When out of band signaling is specified, the customer may obtain an ANI equivalent by ordering the Charge Number optional feature as specified in (d) following. The ten-digit ANI telephone number will be transmitted on all calls except those identified as multiparty line or ANI failure, in which case only the NPA will be transmitted (in addition to the information digit described following).

The information digits identify: (1) telephone number is the station billing number - no special treatment required, (2) multiparty line- telephone number is a multiparty line and can not be identified - number must be obtained via an operator or in some other manner, (3) ANI failure has occurred in the end office switch which prevents identification of calling telephone number - number must be obtained via an operator or in some other manner, (4) hotel/motel originated call which requires room number identification, (5) coinless station, hospital, inmate, etc. call which requires special screening or handling by the customer, and (6) call is an Automatic Identified Outward Dialed (AIOD) call from customer premises equipment. The ANI telephone number is the listed telephone number of the customer and is not the telephone number of the calling party. (7) Public Payphones.

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4.1 Call Completion Service (Cont'd)

4.1.3 Provisioning and Description of FGD (Cont'd)

- B. Calling Party Number (CPN) [Where permitted]. This option provides for the automatic transmission of the calling party's ten digit telephone number to the customer's premises for originating calls. The ten-digit telephone number consists of the NPA plus the seven-digit telephone number, which may or may not be the same as the calling station's charge number. The protocol for CPN is contained in Technical Reference TR-TSV-000905. This feature is only available when out of band signaling is specified.

The Company will transmit a "privacy indicator" as part of the CPN information in those jurisdictions where end users may elect that their CPN information may not be passed to the called party, and where the end user has taken the necessary actions to ensure that their CPN is so blocked. (T)

- C. Charge Number (CN) This option provides for the automatic transmission of the ten-digit billing number of the calling station number and originating line information. The protocol for CN is contained in Technical Reference TR-TSV-000905. This feature is only available when out of band signaling is specified.
- D. Carrier Selection Parameter (CSP) This option provides for the automatic transmission of a signaling indicator which signifies to the customer whether the call being processed originated from a presubscribed end user of that customer. The protocol for CSP is contained in Technical Reference TR-TSV-000905. This feature is only available when out of band signaling is specified.
- E. 800 Data Base Access Service and Toll Free Transit Traffic Service.

800 Data Base Access Service is an originating only trunk side service. When an 800+NXX+XXXX call is originated by an end user, the Company will perform customer identification based on screening of the full ten-digits of the 800 number to determine the location to which the call is to be routed. (T)

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4.1 Call Completion Service (Cont'd)

4.1.3 Provisioning and Description of FGD (Cont'd)

E. (Cont'd)

Toll Free 8YY Transit Traffic Service is an access service in which the Company transports Toll Free traffic originated by a third-party who is not an end user or other user of the Company's local exchange or exchange access service through its wire center to an Interexchange Carrier Customer. The connection to the interexchange carrier can be either directly via a direct End Office Trunk from the Company's switch to the IXC or indirectly via the tandem provider's switching facility. This service provides for the use of the Tandem Switching, Tandem Termination, Tandem Facility, and 800 Data Base Query functionalities.

To the extent the company jointly provides Toll Free 8YY Transit Traffic Service in conjunction with a third-party carrier that will bill Interexchange Carrier Customers of that third-party carrier's switched access service, pursuant to that third-party carrier's tariff or other authority, for that third-party carrier's portion of the total service, the Company and third-party carrier(s) will enter into a billing agreement with all billing carriers which is consistent with the provisions contained in MECAB. Toll Free 8YY Transit Traffic Service calls routed to a tandem provider's switching facility will conform to the LATA restrictions as defined both in said tandem provider's switched access tariff and in MECAB.

800 Data Base Access Service calls and Toll Free 8YY Transit Traffic Service calls will be delivered to the customer directly from a Company end office only when the end office is equipped with 800 Data Base Query functionality, i.e., the ability to query the 800 Data Base to perform ten-digit customer identification. When the end office does not have 800 Data Base query functionality, 800 calls will be blocked. (T)

Call Completion rates and charges apply to 800 Data Base Access Services calls originated from the Company end offices and calls originating from the Toll Free 8YY Transit Traffic Service. In addition to Call Completion usage charges, a basic query charge as specified hereinafter following applies to each 800 Data Base Access service call delivered to the customer and to each Toll Free 8YY Transit Traffic service call delivered to the customer. A basic query charge consists of customer identification {i.e., Carrier Identification Number (CIC), delivery of the ten-digit number, ANI, and the allowable area of service, designated by the customer, from which 800 calls can be received. (T)

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4.1 Call Completion Service (Cont'd)

- F. Common Channel Signaling Access Service (CCSAS). This option allows the customer to exchange signaling information for FGD call set up over a communications path which is separate from the message path. This service includes a dedicated 56 Kbps out of band signalling connection between the customer's SPOI and the Company's STP. CCSAS is provisioned for two-way transmission of out of band signaling information.

Each CCSAS Signaling Connection provides for two-way digital transmission at a speed of 56 Kbps. The connection to the STP pair can be made from either the customer's Signaling Point (SP) which requires a minimum of two 56 Kbps circuits or from the customer's STP pair which requires a minimum of four 56 Kbps circuits. STP locations are set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4. CCSAS Signaling Connection rates and charges are specified hereinafter.

4.1.4 Presubscription

- A. Presubscription is an arrangement whereby an end user may select and designate to the Company an interexchange carrier (IC) for completion of InterLATA calls without dialing an access code. The IC is referred to as the end user's Primary Interexchange Carrier (PIC). The end user may select any IC that orders originating FGD Switched Access Service either to the Company's end office or to an authorized local exchange carrier's tandem to which the Company's end office sub-tends.
- B. New end users who are served by offices equipped with FGD will be asked to presubscribe to an IC at the time they place an order with the Company for Exchange Access Service. They may select either of the following options. There is no additional charge for the initial selection.
- Designate an IC as a PIC and dial 10XXX to access other IC's.
 - Designate that they do not want to be presubscribed to any IC (no PIC) and choose to dial 10XXX for all interLATA calls.

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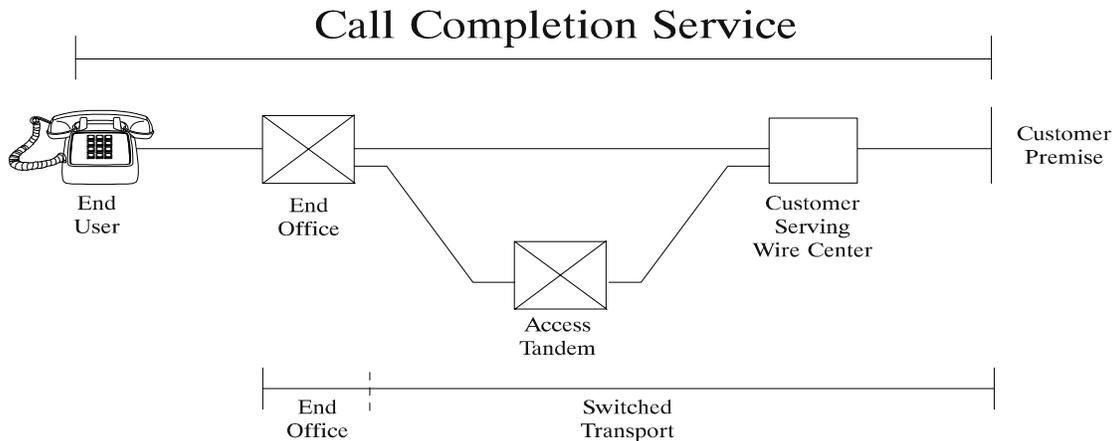
4.1 Call Completion Service (Cont'd)

4.1.5 Call Completion Rate Application

Non-recurring and usage rates apply for each Call Completion Service furnished by the Company. Non-recurring charges are the one time charges that apply for a specific work activity, (e.g., new installations or changes to existing installations). Usage rates apply only when a specific rate element is used. They apply Call Completion Service access minute and are accumulated over a monthly period.

A. Rate Categories

The following diagram depicts a generic view of the components of Call Completion Service and the manner in which the components are combined to provide a complete service.



ST - Switched Transport
 EO - End Office

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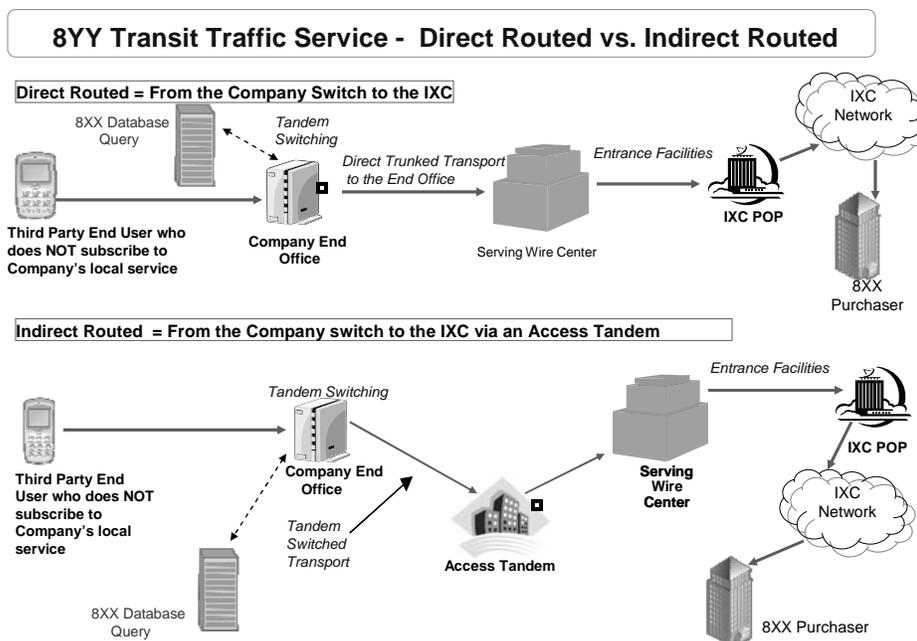
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4.1 Call Completion Service (Cont'd)

4.1.5 Call Completion Rate Application (Cont'd)

A. Rate Categories (Cont'd)

The following diagram depicts the call flow for 8YY transit Traffic Service.



B. Switched Transport

Switched transport provides the transmission facilities between the customer premises and the Company's end-office switch(es) where the customer's traffic is switched to originate or terminate customer's communications.

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4.1 Call Completion Service (Cont'd)

4.1.5 Call Completion Rate Application (Cont'd)

B. Switched Transport (Cont'd)

1. Entrance Facility Rate Category

An Entrance Facility provides the communications path between a customer's premises and the Company serving wire center (SWC) of that premises for the sole use of the customer. The Entrance Facility is provided as DS1 and/or DS3 service. An Entrance Facility is required whether the customer's premises and the serving wire center are located in the same or different buildings.

2. Direct Trunk Transport Rate Category

Direct Trunk Transport provides the transmission path from the serving wire center of the customer's premises to an end office or as an option from the serving wire center to a tandem office. This transmission path is dedicated to the use of a single customer.

The Direct Trunked Transport rate category is comprised of a monthly fixed rate and a monthly per mile rate based on the facility provided, i.e., DS1, or DS3. The fixed rate provides the circuit equipment at the ends of the transmission links. The per mile rate provides the transmission facilities, including intermediate transmission circuit equipment, between the end points of the circuit. The Direct Trunked Transport rate is the sum of the fixed and per mile rate. For purposes of determining the per mile rate, mileage shall be measured as airline mileage between the serving wire center of the customer's premises and the end office or directly to the access tandem using the V&H coordinates method.

3. Tandem Switched Transport Rate Category

Tandem Trunk Transport provides the transmission path from the SWC of the customer's premises to an end office utilizing tandem switching functions. Tandem Switched Transport consist of circuits dedicated to the use of a single customer from the customer's premises to the access tandem and circuits used in common by multiple customers from the access tandem to an end office. For Tandem Switched Transport, the Company will determine the type of facilities from the SWC of the customer's premises to the end office based on the customer's order for service on a busy hour minutes of capacity basis or on a per trunk basis.

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4.1 Call Completion Service (Cont'd)

4.1.5 Call Completion Rate Application (Cont'd)

B. Switched Transport (Cont'd)

3. Tandem Switched Transport Rate Category (continued)

The Tandem Switched Transport rate category is comprised of a Tandem Transport fixed MOU rate, Tandem Transport Per Mile/Per MOU rate, and a Tandem Switching MOU rate. The fixed rate provides the circuit equipment at the end of the interoffice transmission links. The per mile rate provides the transmission facilities, including intermediate transmission circuit equipment, between the end points of the interoffice circuits. For purposes of determining the per mile rate, mileage shall be measured as airline mileage between the SWC of the customer's premises and the end office using the V&H coordinates method. The Tandem Switching rate provides for the tandem switching facilities. The Tandem Switched Transport rate is the sum of the fixed rate, the per mile rate, and the Tandem Switching MOU rate. The Tandem Switched Transport Rate Category applies to toll Free 8YY Transit Traffic Service.

In addition, the customer has the option to purchase direct trunks to the access tandem as specified above. If the customer chooses this option, the per mile/per MOU rate shall be measured between the tandem office and the end office (common traffic) using the V&H coordinates method for all of the customer's usage at that specific tandem. The fixed per MOU rate and the Tandem Switching rates will also apply.

a. 8YY Transit Traffic: Direct-Routed

For direct-routed 8yy Transit traffic, the tandem switching rate element will be billed. The tandem switching charge is in addition to the 800 Database Service charge described in Section 4.1.3.

b. 8YY Transit Traffic: Indirect-Routed

For indirect-routed 8YY Transit Traffic, the following three rate elements will be billed: Tandem Switching, Tandem Transport (fixed) and Tandem transport Facility (per mile). These rate elements are in addition to the 800 database Service charge described in section 4.1.3.

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4.1 Call Completion Service (Cont'd)

4.1.5 Call Completion Rate Application (Cont'd)

B. Switched Transport (Cont'd)

4. Common Channel Signaling Access

Common channel Signaling Access (CCSA) is comprised of a STP Port Termination rate and a STP Link Transport rate.

The STP Port termination rate provides for the point of termination to the signal switching capability of the STP.

The STP Link Transport rate provides for the transmission facilities between the SWC of the customer designated premises and the Company STP.

5. Interface Groups

Interface Groups are provided for terminating the Switched Transport at the customer's premises. Each Interface Group provides a specified interface at the customer's facilities, (e.g., DS1, DS3). Where transmission facilities permit, the individual transmission path between the customer's premises and the first point of switching may at the option of the customer be provided with optional features.

Interface Group 6 provides DS1 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice frequency transmission paths. The interface is provided with individual transmission path bit stream supervisory signaling.

Interface Group 9 provides DS3 level digital transmission at the point of termination at the customer's premises. The interface is capable of transmitting electrical signals at a nominal 44.736 Mbps, with the capability to channelize up to 672 voice frequency transmission paths. The interface is provided with individual transmission path bit stream supervisory signaling.

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4.1 Call Completion Service (Cont'd)

4.1.5 Call Completion Rate Application (Cont'd)

B. Switched Transport (Cont'd)

6. Nonchargeable Optional Features

a. Out of Band Signaling:

This option allows the customer to exchange signaling for FGD call set-up over a communications path which is separate from the message path. This option is provided with SS7 protocol and requires the establishment of a Common Channel Signaling Access Service between the customer's SPOI and the Company's STP.

Out of band signaling is provided in both the originating and terminating direction. Each signaling connection is provisioned for two-way transmission of out of band signaling information.

7. Chargeable Optional Features

a. 800 Data Base Access Service

(1) 800 Data Base Query Charge

The basic query charge is assessed the customer based on the query of the 800+NXX+XXXX number dialed and/or delivered to the customer in conjunction with 800 Data Base Access Service or Toll Free 8YY Transit Traffic Service. 800+NXX+XXXX calls delivered to the customer are based on information derived via queries to the 800 Data Base.

C. End Office

The End Office rate category provides for the local end office switching and end user termination functions necessary to complete the transmission of Call Completion Services to and from the end users served by the Company's end offices. The End Office rate category consists of the Call Completion rate element.

1. Call Completion Rate Category

The Call Completion rate element provides for the use of end office switching equipment, terminations for the end user lines terminating in the local end office, and for the termination of calls at a Company Intercept operator or recording.

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4.1 Call Completion Service (Cont'd)

4.1.5 Call Completion Rate Application (Cont'd)

C. End Office (Cont'd)

2. Composite Rate

Both originating and terminating Call Completion Service Rates in Section 5.1 are composite rate elements. Call Completion Service provides for all functions necessary to deliver a call from the Customer to the Company's end user or from the Company's end user to the Customer.

3. Nonchargeable Optional Features

- a. Automatic Number Identification (ANI)
- b. Calling Party Number (CPN)
- c. Charge Number (CN)
- d. Carrier Selection Parameter (CSP)
- e. Common Channel Signaling Access Service (CCSAS)

4. Chargeable Optional Features

- a. 800 Data Base Access Service
- b. Operator Transfer Service

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4.1 Call Completion Service (Cont'd)

4.1.6 Feature Group D Usage Measurement

For originating calls over FGD with multi-frequency address signaling, usage measurement begins when the originating entry switch receives the first wink supervisory signal forwarded from the customer's point of termination. For originating calls over FGD with out of band signaling, usage measurement begins when the last point of switching sends the initial address message to the customer.

The measurement of originating call usage over FGD ends when the originating entry switch receives disconnect supervision from either the end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

For terminating calls over FGD, the measurement of access minutes begins when the entry switch receives answer supervision from the terminating end user's end office indicating the terminating end user has answered.

The measurement of terminating call usage over FGD ends when the FGD entry switch receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the entry switch.

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4.1 Call Completion Service (Cont'd)

4.1.6 Feature Group D Usage Measurement (Cont'd)

For 800 Data Base Access, usage measurement begins when the originating end office switch receives the first wink supervisory signal forwarded from the customer's point of termination. 800 Data Base Access usage measurement ends when the originating end office receives on-hook disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the end office.

4.1.7 Presubscription

Subsequent to the installation of Exchange Access Service, and after the end user's initial selection of a Primary Interexchange Carrier (PIC), for any additional change in selection, a nonrecurring charges as set forth hereinafter. This charge is billed to the end user which is the subscriber to the Exchange Access Service.

4.1.8 Operator Transfer

The Operator Transfer charge is assessed the customer based on the number of zero minus calls transferred to the customer by the Company's operator, i.e., the customer's end user dials only the zero (T) digit with no additional digits. Rates and charges are specified hereinafter.

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4.1 Call Completion Service (Cont'd)

4.1.9 Customer Transfer Charges

A) Description

Customer Transfer Charges apply when a Company local customer is transferred from the Company to an Incumbent Local Exchange Carrier (ILEC) or to a Competitive Local Exchange Carrier (CLEC) that imposes charges similar to those imposed by the ILEC for activities related to customer migration between carriers. A Customer Transfer Charge may also apply to non-standard requests for migration of a customer between the Company and a CLEC. Payment of these charges is the responsibility of the ILEC or CLEC, to which the customer's service is being migrated. (T)

B) Application of Charges

The following non-recurring charges apply:

Customer Transfer Charges apply per each DS-0 and DS-1 facility, and will be equal to the New Service Request special access or UNE-loop charges applied by the dominant LEC. (T)

1. A Supplemental Charge applies per each request made to change or revise the original order. (T)
2. An Expedite Charge applies in instances where the Company receives a request to reduce the migration interval to less than the standard, published Company interval pertaining to expedites. (T)
3. A Cancellation Charge applies in instances where a Customer Transfer Request is cancelled.
4. Reciprocal Pricing, as specified in the Rates Section 5 applies.