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ACCESS SERVICE

6. SWITCHED ACCESS SERVICE6.1 General

Switched Access Service, which is available to customers for their use in furnishing their services to end users, provides a two-point electrical communications path between a customer's premises or a collocated interconnection location and an end user's premises. It provides for the use of common terminating, switching and trunking facilities, and common subscriber plant of the Telephone Company. Switched Access Service provides for the ability to originate calls from an end user's premises to a customer's premises, or a collocated interconnection location and to terminate calls from a customer's premises or a collocated interconnection location to an end user's premises in the LATA where it is provided. Specific references to material describing the elements of Switched Access Service are provided in 6.1.1 and 6.1.3 following.

Rates and charges for Switched Access Service depend generally on its use by the customer, i.e., for MTS or WATS services, 800 Data Base Access Service, 900 Access Service, MTS-WATS equivalent services, or other services (e.g., foreign exchange service). Rates and charges for Switched Access Service are set forth in 30.6 following. The application of rates for Switched Access Service is described in 6.7 following. Rates and charges for services other than Switched Access Service, e.g., a customer's interLATA toll message service, may also be applicable when Switched Access Service is used in conjunction with these other services. Descriptions of such applicability are provided in 6.2.1(A)(7), 6.2.1(B)(4), 6.2.2(A)(5), 6.2.3(A)(5), 6.2.4(A)(4), 6.7.10 and 6.7.11 following.

6.1.1 Feature Group Arrangements and Manner of Provision

Switched Access Service is provided in four service categories of standard and optional features called Feature Groups. These are differentiated by their technical characteristics, e.g., line side vs. trunk side connection at the Telephone Company entry switch, and the manner in which an end user accesses them in originating calling, e.g., with or without an access code. In addition, 800 Data Base Access Service and 900 Access Service are available through the use of trunk side Feature Groups. Following is a brief description of each Feature Group arrangement, 800 Data Base Access Service and 900 Access Service.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)(A) Feature Group A (FGA)* (C)

FGA Access, which is available to all customers, provides line side access to Telephone Company end office switches with an associated seven digit local telephone number for the customer's use in originating and terminating communications. A more detailed description of FGA Access is provided in 6.2.1 following.

(B) Feature Group B (FGB)

FGB Access, which is available to all customers, provides trunk side access to Telephone Company end office switches with an associated uniform 950-XXXX access code for non-900 Access Service for the customer's use in originating and terminating communications. A more detailed description of FGB Access is provided in 6.2.2 following.

(C) Feature Group C (FGC)

FGC Access, which is available only to providers of MTS and WATS, provides trunk side access to Telephone Company end office switches for the customer's use in originating and terminating communications. This service is available in all end offices which are not equipped for Feature Group D End Office Switching. Existing FGC Access will be converted to Feature Group D Access when it becomes available in an end office. A more detailed description of FGC Access is provided in 6.2.3 following.

(D) Feature Group D (FGD)

FGD Access, which is available to all customers, provides trunk side access to Telephone Company end office switches with an associated uniform 101XXXX access code for the customer's use in originating and terminating communications. A more detailed description of FGD Access is provided in 6.2.4 following.

* This service is no longer available in the wire centers listed, and as outlined, in Section 16 of this Tariff. (N)

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.1 General (Cont'd)

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

(E) 800 Data Base Access Service

800 Data Base Access Service is a service offering utilizing originating trunk side Switched Access Service. The service provides for the forwarding of end user dialed 800 calls to a Telephone Company Service Switching Point which will initiate a query to the data base to perform the customer identification function. The call is forwarded to the appropriate customer based on the dialed 800 number. The customer has the option of having the dialed 800 number (i.e., 800-NXX-XXXX) or, if the Toll Free Number Translation feature is specified, a translated ten digit telephone number in NANPA format delivered to the customer premises.

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No access code is required for 800 Data Base Access Service. When an 800 call is originated by an end user, the Telephone Company will perform the customer identification function based on the dialed digits to determine the customer location to which the call is to be routed. The customer identification will be based on 10 digits (i.e., 800-NXX-XXXX), however, for certain special use 800-NXXs, the customer identification will be based on six digits (i.e., 800-NXX). The customer identification function will be available at suitably equipped end office or access tandem switches. If the call originates from an end office not equipped to provide the customer identification function, the call will be routed to an access tandem at which the function is available. Once customer identification has been established, the call will be routed to the customer. Calls originating from an end office switch not included in the customer's area of service for 800 Data Base Access Service will not be completed.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)(E) 800 Data Base Access Service (Cont'd)

For purposes of administering the rules and regulations set forth in this tariff regarding the provision of 800 Data Base Access Service, except where otherwise specified, the term 800 Data Base Access Service shall include any of the following NPAs: 800, 888, 877, 866, 855, 844, 833, 822, or other NPAs as they become available to the industry. (C)

When 800 Data Base Access Service is provided from an end office equipped with equal access capabilities (i.e., FGD), all such service will be provisioned as Feature Group D. When 800 Data Base Access Service is provided from designated electromechanical end offices, such service will be provisioned as Feature Group C or Feature Group D.

Unless prohibited by network considerations, e.g., different dialing plans, the customer's 800 Data Base Access Service traffic may, at the option of the customer, be combined in the same trunk group arrangement with the customer's other Access Service traffic of the same Switched Access Service Arrangement type or be combined in the same trunk group arrangement with the customer's 900 Access Service traffic of the same Switched Access Service Arrangement type with the following limitation. Combining 800 Data Base Access Service traffic with the customer's direct routed Switched Access Service Arrangements or 900 Access Service traffic of the same Switched Access Service Arrangement type will be allowed only when the end office is equipped to perform the customer identification function. When required by network considerations, a separate trunk group must be established for 800 Data Base Access Service.

(1) Call Handling and Destination Feature

The Call Handling and Destination Feature is available to 800 Data Base Access Service customers on an optional basis. This feature allows for the customer to create call processing logic for 800-NXX-XXXX dialed calls. In this manner the 800 Data Base Access Service can be customized to meet individual requirements. The feature may be used in combination with one or more routing options based upon customer specification and technical switch limitations.

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.1 General (Cont'd)

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

(E) 800 Data Base Access Service (Cont'd)

(1) Call Handling and Destination Feature (Cont'd)

The customer may segment the 800 calls based on the following options to choose different terminating destinations and/or multiple carriers:

- Specific telephone number of the calling party
- Time of day
- Day of week
- Specific days of the year (e.g., December 25)
- Percentage of traffic (in one percent increments)

The availability of Call Handling and Destination based on the specific telephone number of the calling party is subject to the Telephone Company's ability to obtain full 10-digit ANI of the calling party.

(2) Toll Free Number Translation Optional Feature

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The Toll Free Number Translation Optional Feature allows customers to designate a 10 digit telephone number in NANPA format to be translated from a specific 800 number to be delivered to the customer premises. If the Toll Free Number Translation Optional feature is ordered, the customer will be unable to determine that such calls originated as 800 dialed calls unless the customer also orders the Automatic Number Identification (ANI) optional feature.

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6. SWITCHED ACCESS SERVICE6.1 General (Cont'd)6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)(F) 900 Access Service

900 Access Service is a LATA wide offering utilizing trunk side Switched Access Service. The service provides for the forwarding of end user dialed 900-NXX-XXXX calls to a Telephone Company switch capable of performing a customer identification function. Based on the NXX, the call is forwarded to the appropriate customer.

No access code is required for 900 Access Service. When a 1+900+NXX+XXXX call is originated by an end user, the Telephone Company will perform the customer identification function based on the dialed digits to determine the customer location to which the call is to be routed. The customer identification function will be available at suitably equipped end office or access tandem switches. If the call originates from an end office switch not equipped to provide the customer identification function, the call will be routed to the access tandem at which the function is available. Once customer identification has been established, the call will be routed to the customer.

The manner in which 900 Access Service is provisioned is dependent on the status of the end office from which the service is provided, (i.e., equipped with equal access capabilities or not equipped with equal access capabilities) and/or the status of the customer (i.e., MTS/WATS provider or MTS/WATS-type provider). When 900 Access Service is provided from an end office equipped with equal access capabilities (i.e., FGD), all such service will be provisioned as Feature Group D. When 900 Access Service is provided from an end office not equipped with equal access capabilities, such service will be provisioned in the same manner in which the customer's non-900 Switched Access Service from such end offices is provisioned (i.e., as Feature Group B or C).

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)(G) 900 Access Service (Cont'd)

Unless prohibited by network considerations, the customer's 900 Access Service traffic may, at the option of the customer, be combined in the same trunk group arrangement with the customer's other Access Service traffic of the same Switched Access Service Arrangement or be combined in the same trunk group arrangement with the customer's 800 Data Base Access Service traffic of the same Switched Access Service Arrangement. When required by network considerations, a separate trunk group must be established for 900 Access Service.

Calls originating from a LATA for which a customer has not ordered 900 Access Service NXX codes activated will not be completed.

(H) Manner of Provision

Switched Access is furnished in either quantities of lines or trunks, or, for tandem switched transport, in busy hour minutes of capacity (BHMCS). FGA Access and FGB Access are furnished on a per-line or per-trunk basis respectively. FGC Access and FGD Access are furnished on a BHMC basis for tandem switched transport only. FGD may also be provided to customers other than AT&T on a per trunk basis as set forth in 5.2 preceding.

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

There are three major traffic categories identified as: Originating, Terminating and Directory Assistance. Originating traffic type represents access capacity within a LATA for carrying traffic from the end user to the customer; Terminating traffic type represents access capacity within a LATA for carrying traffic from the customer to the end user; and, Directory Assistance traffic type represents access capacity within a LATA for carrying Directory Assistance traffic from the customer to a Directory Assistance location.

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6. SWITCHED ACCESS SERVICE6.1 General (Cont'd)6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)(H) Manner of Provision (Cont'd)

When ordering capacity for FGB Access, FGC Access or FGD Access, the customer must at a minimum specify such access capacity in terms of Originating traffic type and/or Terminating traffic type. Directory Assistance traffic type is used for ordering Directory Assistance Access Service as set forth in 9. following.

Because some customers will wish to further segregate their originating FGB, FGC or FGD into separate trunk groups, or because segregation may be required by network considerations, Originating traffic type is further categorized into Domestic, 800, 900, Operator and IDDD. Domestic traffic type represents access capacity for carrying only domestic traffic other than 800, 900 and Operator traffic; IDDD traffic type represents access capacity for carrying only international traffic; and, 800, 900 and Operator traffic type represents access capacity for carrying, respectively, only 800, 900 or Operator traffic. When ordering such types of access capacity, the FGC or FGD customer must specify Domestic, 800, 900, Operator or IDDD traffic type. In addition, when ordering 800 Access capacity, the FGB customer must specify 800 traffic type.

6.1.2 Rate Categories

There are three rate categories which apply to Switched Access Service:

- Local Transport (described in 6.1.2(A) following)
- Local Switching (described in 6.1.2(B) following)
- Common Line (described in Section 3. preceding)

In addition, an Equal Access/Network Reconfiguration Cost Recovery rate, as set forth in Section 30.14 following, applies to Interexchange Carriers who obtain FGD Switched Access Service. A Customer Identification Charge, as set forth in Section 30.6.4 following, applies to customers who obtain 800 Data Base Access Service.

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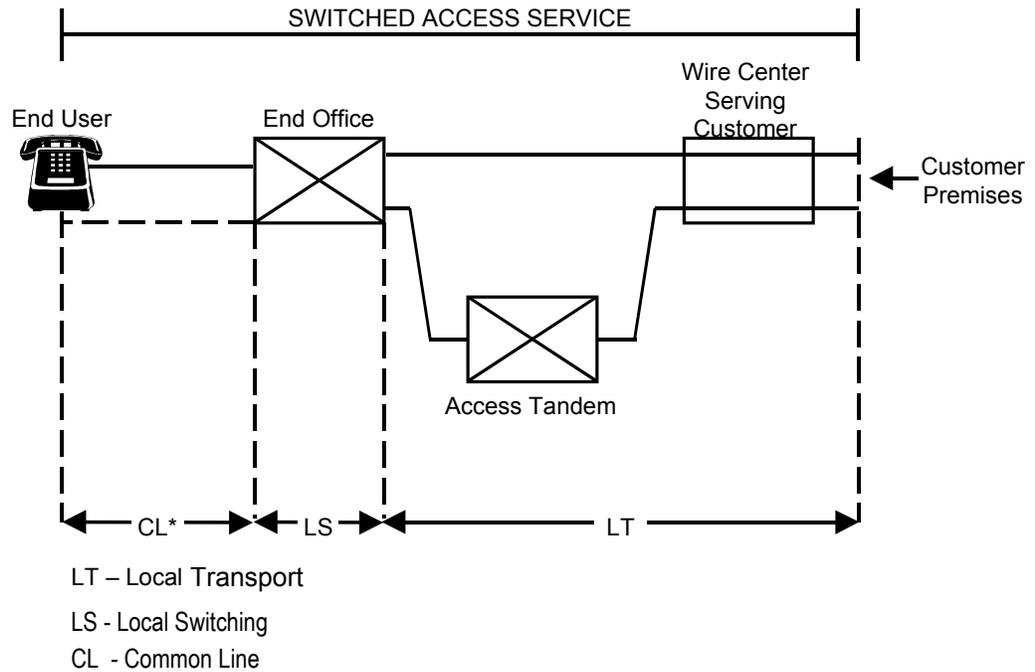
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6. SWITCHED ACCESS SERVICE (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

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



* Common Line Access is provided under Section 3. Preceding.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport

The Local Transport rate category provides the transmission facilities between the customer's premises or a collocated interconnection location and the end office switch(es) where the customer's traffic is switched to originate or terminate its communications. For purposes of determining Local Transport-Channel Mileage for dedicated transport, distance will be measured from the wire center that normally serves the customer's premises or a collocated interconnection location to either the end office switch(es) or the access tandem. Exceptions to the mileage measurement rules are set forth in 6.7.12 following.

Local Transport is a two-way voice frequency transmission path composed of facilities specified by the customer (dedicated transport) or, determined by the Telephone Company (common transport). The two-way voice frequency transmission path permits the transport of calls in the originating direction (from the end user end office switch to the customer's premises or a collocated interconnection location) and in the terminating direction (from the customer's premises or a collocated interconnection location to the end office switch), but not simultaneously. The voice frequency transmission path may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The Telephone Company will work cooperatively with the customer in determining (1) whether the service is to be directly routed to an end office switch or through an access tandem switch, (2) routed through a TOPS tandem switch, and (3) the directionality of the service. In addition, when the customer has ordered Feature Group D with the 64 kbps Clear Channel Capability (64CCC) optional feature(s), as set forth in 6.1.2(A)(2)(g) following, the Telephone Company will assure that these facilities are capable of supporting 64 kbps clear channel digital data as appropriate.

When the customer has ordered Feature Group D with the SS7 Signaling option, as set forth in 6.1.2(A)(2)(d) following, the Telephone Company will provide the option in accordance with the technical specifications set forth in Technical Publication TR-TSV-000905 and TR-TSV-000962.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)

The circuits and equipment used for Local Transport may be dedicated to a single customer (dedicated transport) or used in common by multiple customers (common transport).

For dedicated transport, the customer must order or have in place an Entrance Facility from the customer premises or a collocated interconnection location to the serving wire center of the customer premises or a collocated interconnection location.

The customer has the option of a 2-wire Voice Grade, 4-wire Voice Grade, DS1 or DS3 Entrance Facility for Local Transport from the customer designated premises to the serving wire center of such customer designated premises.

For Switched Access Service Collocation, the customer has the option of a DS1 or DS3 Entrance Facility for Local Transport from the collocated interconnection location to the serving wire center of such collocated interconnection location. The rates for Switched Access Collocation as set forth in PSC NY No. 1--COMMUNICATIONS, Section 12, I.2 will apply.

The customer also has the option of Voice Grade, DS1 or DS3 Direct Trunked Transport from the customer's serving wire center to the designated end offices or access tandems. In addition, the Local Transport rate category provides, for DS3 to DS1 or DS1 to Voice Multiplexing Optional Features.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)

The Entrance Facility portion of the Local Transport rate category is comprised of a Channel Termination rate for that portion of the voice frequency transmission path from the customer premises to the serving wire center of the customer premises. A Service Access Charge rate as set forth in PSC No. 15--COMMUNICATIONS will apply in lieu of the Channel Termination rate for each Local Transport Entrance Facility terminated at a collocated interconnection location. (C)

The Local Transport rate category, when provided as Direct Trunked Transport (dedicated transport to an end office or access tandem), is comprised of a Channel Mileage rate. Dedicated Tandem Trunk Port rates, Host/Remote Transport rates, DS3 to DS1 and DS1 to Voice Multiplexing charges or CCSA charges will apply, as appropriate.

The Local Transport rate category, when provided as Tandem Switched Transport (dedicated transport to an end office or access tandem), is comprised of a Channel Mileage rate, Dedicated Tandem Trunk Port rates, a Local Transport Termination rate, a Local Transport Facility rate, a Tandem Switching rate, and a Transport Multiplexing rate. Host/Remote Transport rates or CCSA charges will apply as appropriate.

The Direct Trunked Transport Channel Mileage rate provides for that portion of the voice frequency transmission path from the serving wire center of the customer premises or a collocated interconnection location directly to an end office or an access tandem.

The Dedicated Tandem Trunk Port rate provides for the termination of a voice frequency transmission path into the serving wire center side of an access tandem.

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

The Local Transport Termination rate provides for the termination of the voice frequency transmission path at the end office switch or at the access tandem for traffic that is switched at an access tandem. The Local Transport Termination rate also provides for the termination of the voice frequency transmission path at a host end office.

The Host/Remote Transport Termination rate provides for the termination of the voice frequency transmission path at a remote switching system (RSS) or a remote switching module (RSM).

The Local Transport Facility rate provides for that portion of the voice frequency transmission path between the end office and the access tandem.

The Host/Remote Transport Facility rate provides for that portion of the voice frequency transmission path between a host end office and a remote switching system (RSS) or remote switching module (RSM).

For 800 Data Base Access Service originating access minutes, the Tandem Switching rate provides for tandem transport, tandem transmission and tandem switching. No other Tandem Switched Transport usage charges will be assessed for 800 Data Base Access Service originating access minutes. For Other Than 800 Data Base Access Service access minutes,* the Local Transport Tandem Switching rate provides for the use of the Telephone Company tandem switching facilities.

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The Transport Multiplexing rate provides for the use of common DS3 to DS1 multiplexers on the end office side of an access tandem for traffic that is switched at an access tandem and/or FGA traffic.

At the customer's option, multiplexing function may be performed at the serving wire center of the customer premises or a collocated interconnection location or at a Terminus, Intermediate or Super-Intermediate Hub. Channel Mileage rates will apply if multiplexing functions are performed between two Telephone Company Hubs.

When the customer orders a DS3 Entrance Facility with DS3 Direct Trunked Transport to an end office or access tandem, the customer must order the DS3 to DS1 Multiplexing Optional Feature at the end office or access tandem.

* Issued in compliance with the Order of the Federal Communications Commission in WC Docket No. 18-156, In the Matter of 8YY Access Charge Reform, FCC 20-143, released October 9, 2020.

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

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Local Transport and the CCSA option are provided at the rates and charges set forth in 30.6.1 following. The application of these rates with respect to individual Feature Groups is as set forth in 6.7.1(D), 6.7.1(E) and 6.7.1(I) following.

CCSA is comprised of a STP Link Termination rate, a STP Link Transport rate and a STP Port rate. The application of the STP Port rate is set forth in (B) following.

The STP Link Termination rate provides for the connection from the customer designated premises to the serving wire center.

Operator Passthrough Service has been withdrawn from the Tariff effective April 14, 2013.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)

The STP Link Transport rate provides for the transmission facilities between the serving wire center of the customer designated premises and the Telephone Company STP.

The STP Link Transport may be provided by an Interconnector that has a collocated interconnection node in a wire center or other location where one of the Telephone Company's STP's is located.

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

(1) Interface Groups

Four Interface Groups are provided for terminating the Local Transport at the customer's premises and two Interface Groups are provided for terminating the Local Transport at a collocated interconnection location. Each Interface Group provides a specified premises interface determined by the type of entrance facility specified by the customer (e.g., two-wire, four-wire, DS1, etc.). 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 as set forth in (2)(a), (b) and (c) following.

As a result of the customer's access order and the type of entrance facilities serving the customer's premises, the need for signaling conversions or two-wire to four-wire conversions, or the need to terminate digital or high frequency facilities in channel bank equipment may require that Telephone Company equipment be placed at the customer's premises. For example, if a voice frequency interface is ordered by the customer and the Telephone Company facilities serving the customer's premises are digital, then Telephone Company channel bank equipment must be placed at the customer's premises in order to provide the voice frequency entrance facility ordered by the customer. For Switched Access Collocation arrangements, such equipment will be placed in Telephone Company space within the serving wire center, access tandem or remote node that serves the collocated interconnection location.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(1) Interface Groups (Cont'd)

Compatibility and interface requirements for using Switched Access Interface Group 9 are in accordance with the guidelines set forth in Technical Reference TR-INS-000342.

Interface Group 1 is provided with Type C Transmission Specifications, and Interface Groups 2, 6 and 9 are provided with Type A or B Transmission Specifications, depending on the Switched Access Service Arrangement and whether the Access Service is routed directly or through an access tandem. All Interface Groups are provided with Data Transmission Parameters.

Only certain premises interfaces are available at the customer's premises or a collocated interconnection location. The premises interfaces associated with the Interface Groups may vary among Switched Access Service Arrangements. The various premises interfaces which are available with the Interface Groups, and the Switched Access Service Arrangement with which they may be used, are set forth in (1) (e) following.

(a) Interface Group 1 (USOC TPP1X)

Interface Group 1, except as set forth in the following, provides two-wire voice frequency transmission at the point of termination at the customer's premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Interface Group 1 is not provided in association with FGC and FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB, FGC or FGD when the first point of switching provides only four-wire terminations.

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups (Cont'd)

(a) Interface Group 1 (USOC TPP1X) (Cont'd)

The transmission path between the point of termination at the customer's premises and the first point of switching may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start* signaling. When the interface is associated with FGB, FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery* signaling.

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(b) Interface Group 2 (USOC TPP2X)

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer's premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The transmission path between the point of termination at the customer's premises and the first point of switching may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start* signaling. When the interface is associated with FGB, FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery* signaling.

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* Ground Start and Reverse Battery may not be provided over fiber facilities and are only available where suitable facilities exist.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(1) Interface Groups (Cont'd)(c) Interface Group 6 (USOC TPP6X)

Interface Group 6 provides DS1 level digital transmission at the point of termination at the customer's premises or a collocated interconnection location. 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. Before the first point of switching, when analog terminations are provided, the Telephone Company will provide multiplex and channel bank equipment to derive 24 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, a DS1 signal in D3/D4 format.

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

(d) Interface Group 9 (USOC TPP9X)

Interface Group 9 provides DS3 level digital transmission at the point of termination at the customer's premises or a collocated interconnection location. The interface is capable of transmitting electrical signals at a nominal 44.736 Mbps, with the capability to channelize up to 28 DS1 transmission paths or up to 672 voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog termination is provided, the Telephone Company will provide multiplex and channel bank equipment to derive up to 672 transmission paths of a frequency bandwidth of approximately 300 to 30000 Hz. When digital switching, or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, DS1 signals in D3/D4 format.

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

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6 SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(1) Interface Groups (Cont'd)(e) Available Premises Interface Codes

Following is a matrix showing, for each Interface Group, which premises interface codes are available as a function of the Telephone Company switch supervisory signaling and Feature Group. For explanations of these codes, see (f), (g) and (h) following.

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group				
			A	B	C	D	
1	LO	2LS2	X				
	LO	2LS3	X				
	GO	2GS2	X				
	GO	2GS3	X				
	LO, GO,	2DX3	X				
	LO, GO,	4EA3-E	X				
	LO, GO	4EA3-M	X				
	LO, GO	6EB3-E	X				
	LO, GO	6EB3-M	X				
	RV, EA, EB, EC	2DX3		X	X	X	
	RV, EA, EB, EC	4EA3-E		X	X	X	
	RV, EA, EB, EC	4EA3-M		X	X	X	
	RV, EA, EB, EC	6EB3-E		X	X	X	
	RV, EA, EB, EC	6EB3-M		X	X	X	
	EA, EB, EC	6EC3			X	X	
	RV	2RV3-0		X	X	X	
	RV	2RV3-T		X	X	X	
	CCS	2N02				X	
	2	LO, GO	4SF2#	X			
		LO, GO	4SF3#	X			
LO		4LS2	X				

Furnished only on existing installations. Additions for growth, moves on the same premises and rearrangements are permitted.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(1) Interface Groups (Cont'd)(e) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group			
			A	B	C	D
2	LO	4LS3	X			
	LO	6LS2#	X			
	GO	4GS2	X			
	GO	4GS3	X			
	GO	6GS2	X			
	LO, GO	4DX2	X			
	LO, GO	4DX3	X			
	LO, GO	6EA2-E	X			
	LO, GO	6EA2-M	X			
	LO, GO	8EB2-E	X			
	LO, GO	8EB2-M	X			
	LO, GO	6EX2-B	X			
	RV, EA, EB, EC	4SF2		X	X	X
	RV, EA, EB, EC	4SF3		X		
	RV, EA, EB, EC	4DX2		X	X	X
	RV, EA, EB, EC	4DX3		X		
	RV, EA, EB, EC	6DX2			X	
	RV, EA, EB, EC	6EA2-E		X	X	X
	RV, EA, EB, EC	6EA2-M		X	X	X
	RV, EA, EB, EC	8EB2-E		X	X	X
	RV, EA, EB, EC	8EB2-M		X	X	X
	EA, EB, EC	8EC2-M			X	X
	RV	4RV2-0		X	X	X
	RV	4RV2-T		X	X	X
	RV	4RV3-0		X	X	
	RV	4RV3-T		X	X	
	CCS	4N02				X

Furnished only on existing installations. Additions for growth, moves on the same premises and rearrangements are permitted

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(1) Interface Groups (Cont'd)(e) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group			
			A	B	C	D
3						
4						
5						
6	LO, GO	4DS9-15	X			
	LO, GO	4DS9-15L	X			
	RV, EA, EB, EC	4DS9-15		X	X	X
	RV, EA, EB, EC	4DS9-15L		X	X	X
	CCS	4DS9-1S				X
	CCS	4DS9-15				X
	CCS	4DS9-15B				X
	CCS	4DS9-15K				X
	CCS	4DS9-15s				X
9	LO, GO	4DS6-44	X			
	LO, GO	4DS6-44L	X			
	RV, EA, EB, EC	4DS6-44		X	X	X
	RV, EA, EB, EC	4DS6-44L		X	X	X
	CCS	4DS6-44				X

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(1) Interface Groups (Cont'd)(e) Available Premises Interface Codes (Cont'd)(i) CCSA Signaling Connection Premises Interface Codes

The SS7 signaling option is provided with Feature Group D. These trunks may be provided using Interface Groups 1, 2, 6 and 9. CCSA signaling connections are provided using Interface Groups 6 and 9. Following is a matrix for Interface Groups 6 and 9 showing which premises interface codes are available for signaling connections as a function of CCSA level of digital transmission.

<u>Interface Group</u>	<u>Level of Transmission</u>	<u>Premises Interface Code</u>
6	DS1	04DS9-1S
6	DS1	04DS9-15
9	DS3	04DS6-44

(f) Premises Interface Codes

Following is an example which explains the specific characters of a code.

Example: If the customer specifies a Premises Interface Code 4EA3-E, the following is being requested:

- 4 = Number of physical wires at customer premises.
- EA = Premises Interface for Type I E&M Lead signaling.
- 3 = 900 ohms impedance level.
- E = Customer at POT or customer's end user at POT originates on E Lead.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(1) Interface Groups (Cont'd)(g) Glossary of Premises Interface Codes

<u>Code</u>	<u>Option</u>	<u>Definition</u>	
AH -		analog high capacity interface	
-	B	60 kHz to 108 kHz (12 channels)	
-	C	312 kHz to 552 kHz (60 channels)	
-	D	564 kHz to 3084 kHz (600 channels)	
DS -		digital hierarchy interface	
-	15	1.544 Mbps (DS1) format per PUB 41451 plus D4	
-	15L	1.544 Mbps (DS1) with SF signaling	
DX -		duplex signaling interface at customer's point of termination	
EA -	E	Type 1 E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.	
EA -	M	Type 1 E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.	
EB -	E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.	
EB -	M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.	
EC-		Type III E&M signaling at customer POT.	
EX -	B	tandem channel unit signaling for loop start or ground start* and customer supplies closed end (dial pulsing, etc.) functions.	(C)

* Ground start may not be provided over fiber facilities and is only available where suitable facilities exist. (N)

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(1) Interface Groups (Cont'd)

(g) Glossary of Premises Interface Codes (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>	
GS-		ground start* supplies loop signaling – closed end function by customer or customer's end user.	(C)
LS-		loop start loop signaling - closed end function by customer or customer's end user.	
RV-	O	reverse battery* signaling, one way operation, originate by customer.	(C)
-	T	reverse battery* signaling, one way operation, terminate function by customer or customer's end user.	(C)
SF-		single frequency signaling with VF band at either customer POT or customer's end user POT.	

(h) Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

<u>Value (ohms)</u>	<u>Code(s)</u>
600	2
900	3
135	5
75	6
100	9

* Ground Start and Reverse Battery may not be provided over fiber facilities and are only available where suitable facilities exist. (N)
(N)

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(2) Optional Features

Where transmission facilities permit, the Telephone Company will, at the option of the customer, provide the following optional features in association with Local Transport.

(a) Supervisory Signaling

Where the transmission parameters permit, and where signaling conversion is required by the customer to meet its signaling capability, the customer may order an optional supervisory signaling arrangement for each transmission path provided as follows:

- For Interface Groups 1 and 2

DX Supervisory Signaling,
E&M Type I Supervisory Signaling,
E&M Type II Supervisory Signaling, or
E&M Type III Supervisory Signaling

- For Interface Group 2

SF Supervisory Signaling, or
Tandem Supervisory Signaling

- For Interface Groups 6 and 9

These Interface Groups may, at the option of the customer, be provided with individual transmission path SF supervisory signaling where such signaling is available in Telephone Company central offices. Generally such signaling is available only where the entry switch provides an analog, i.e., non-digital, interface to the transport termination and a portion of the facility between the analog entry switch and the customer's premises is analog.

These optional supervisory signaling arrangements are not available in combination with the SS7 signaling option as specified in 6.1.2(A)(2)(d) following.

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6 SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(2) Optional Features (Cont'd)(b) Customer Specified Entry Switch Receive Level

This feature allows the customer to specify the receive transmission level at the first point of switching. The range of transmission levels which may be specified is described in Technical Reference TR-NWT 000334. This feature is available with Interface Groups 2, 6 and 9 for Feature Groups A and B.

(c) Customer Specification of Local Transport Termination

This option allows the customer to specify, for Feature Group B routed directly to an end office or access tandem, a four-wire termination of the Local Transport at the entry switch in lieu of a Telephone Company selected two-wire termination. This option is available only when the Feature Group B arrangement is provided with Type B Transmission Specifications.

(d) Signaling System 7 (SS7) Signaling Option

This option allows the customer to receive signals for call set-up out of band. This option is available only with Feature Group D.

The SS7 signaling option is provided with Charge Number (CN), Carrier Selection Parameter (CSP), Calling Party Number (CPN) and Access Transport Parameter (ATP) features. A description of these features is set forth in 6.3.3 following.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(2) Optional Features (Cont'd)(e) Common Channel Signaling Access (CCSA)

This option provides interconnection to the Telephone Company Common Channel Signaling network using a dedicated Signal Transfer Point (STP) Link and a dedicated STP Port. The STP Link provides the connection from the customer designated premises to the Telephone Company STP. The STP Port provides the customer access to the Telephone Company SS7 Network.

The STP Link and the STP Port are dedicated to the customer

Each CCSA STP Link provides for two-way digital transmission at a speed of 56 kbps. The connection to the Telephone Company STP can be made from either the customer's Signaling Point (SP) which requires two 56 kbps circuits or from the customer's STP which requires four 56 kbps circuits. The design requirements for CCSA STP Links are described in Technical Publication TR-TSV-000905.

The STP locations are set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4. Where multiple STP pairs are deployed in a LATA, Telephone Company end offices or tandems are interconnected to only one STP pair. The customer must route terminating traffic to the STP pair that serves the end office or tandem switch where the call is terminated. Subject to the provisions of 2.1.4, the Telephone Company will make every reasonable effort to provide CCSA, under normal business conditions, within 18 months from receiving the customer's request in the New York Metropolitan LATA. As further deployment of CCSA occurs, the new locations will be added to the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 and will be provisioned in the same manner.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(2) Optional Features (Cont'd)(f) Tandem Signaling

The Local Transport Tandem Signaling Option delivers to Tandem Switching Providers the Carrier Identification Code and signaling information digits necessary to identify each access call routed to the tandem switching provider's location, by customer and call type, when the Tandem Switching Provider's service is used to route multi-FGD customer traffic. The Tandem Signaling Option is only available with Direct Trunked Transport from an end office to the serving wire center of the Tandem Switching Provider's point of interface. This option is provided over Direct Trunked Transport arrangements with originating FGD trunks with either MF or SS7 Signaling. MF Signaling with the Tandem Signaling Option is provided subject to the specifications in TR-NWT-000506 and TR-TSY-000540. SS7 Signaling with the Tandem Signaling Option is provided subject to the specifications in GRT; 317-CORE, GR-394-CORE and TR-TSV-000905. The Tandem Signaling Option is not available with terminating or two-way trunks. It is not available in designated electromechanical end offices.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(2) Optional Features (Cont'd)(g) 64 kbps Clear Channel Capability (64CCC)

64 CCC provides a Bipolar with Eight Zero substitution (B8ZS) encoding technique that allows a customer to transport voice or data Signals over a 64 kbps channel with no constraint on the quantity or sequence or ones (mark) and zero (space) bits. The derived 64 kbps clear channels support superframe (SF) or extended superframe (ESF) formatting. 64CCC is a nonchargeable option available with FeatureGroup D when ordered with the SS7 Signaling Option. This optional feature requires the use of Interface Group 6 or 9 and is required for originating or terminating 64 kbps calls to an Integrated Services Digital Network (ISDN). 64CCC is available in suitably equipped electronic end offices as specified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

(h) Multiplexing

The Local Transport multiplexing optional feature allows for a DS3 facility to be channelized into 28 DS1 services or for a DS1 facility to be channelized into 24 Voice Grade or Voice Grade equivalent services. Multiplexing is available at the serving wire center of the customer premises or a collocation location, at designated Hub locations as identified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4, at end office or at Telephone Company access tandems.

(C)

DS1 to Voice multiplexing is not available at end offices.

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(B) Local Switching

The Local Switching rate category provides the local end office switching and end user termination functions necessary to complete the transmission of Switched Access communications to and from the end users served by the local end office. The Local Switching rate category includes the Local Switching, Line Termination, Intercept, and Information (i.e., Directory Assistance) functions. Directory Assistance Service and the applicable rates for it are set forth in Section 9. following.

The Local Switching rate category is divided into two distinct categories, i.e., LS1 and LS2. The first category, LS1, provides local dial switching for Feature Group A. The second category, LS2, provides local dial switching for Feature Groups B, C and D. The rates are further differentiated based upon the directionality of the traffic carried over the Switched Access Service.

(N)
(N)

The Shared End Office Trunk Port provides for the termination of Tandem Switched Transport and/or FGA access minutes to an end office. Access minutes for all Switched Access Service subject to the Shared End Office Trunk Port will be multiplied by the applicable originating or terminating per minute rate set forth in 30.6 following.

(C)

A Transitional Per-Minute Charge will apply from July 1, 2012 through June 30, 2013 to all Transitional Intrastate Access Service end-office switching minutes, as defined in 47 C.F.R. 51.903(j). The charge will be eliminated July 1, 2013.

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

The Composite Terminating End Office Charge (CTEOC) rate element is a usage sensitive rate element that will be assessed on the terminating minutes for FGA, FGB, FGC and FGD.

(N)
(N)

The Dedicated End Office Trunk Port provides for the termination of Direct Trunked Transport trunks at an end office. The Dedicated End Office Trunk Port rate, set forth in 30.6 following, applies per activated trunk for all trunkside services terminating at either analog or digital end offices.

Certain material formerly on this page now appears on 2nd Revised Page 31.

(T)

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.1 General (Cont'd)

6.1.2 Rate Categories (Cont'd)

(B) Local Switching (Cont'd)

Where end offices are appropriately equipped, international dialing may be provided as a capability associated with LS2. 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 a standard FGC or FGD equipped end office.

7
(M)
J

Rates for LS1 and LS2 are set forth in 30.6.2 following. The application of these rates with respect to individual Feature Groups is as set forth in 6.7.1(D) following.

There are four types of local switching functions, i.e., Common Switching functions, Transport Termination functions, Line Termination functions and Intercept functions. These are described in (1), (2), (3) and (4) following.

(1) Common Switching

Common Switching provides the local end office switching functions associated with the various access (i.e., Feature Group) switching arrangements. The Common Switching arrangements provided for the various Feature Group arrangements are described in 6.2 following.

Included as part of Common Switching are various optional features which the customer can order to meet the customer specific communications requirements. These optional features are described in 6.3.1 following.

(2) Transport Termination

Transport Termination provides for the line or trunk side arrangements which terminate the Local Transport facilities. Included as part of Transport Termination are various nonchargeable optional termination arrangements. These optional terminating arrangements are described in 6.3.2 following.

The number of Transport Terminations provided will be determined by the Telephone Company as set forth in 6.5.6 following.

Certain material on this page formerly appeared on 1st Revised 30.

(T)

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.2 Rate Categories (Cont'd)(B) Local Switching (Cont'd)(3) Intercept

Intercept provides for the termination of a call at a Telephone Company Intercept operator or recording. The operator or recording tells a caller why a call, as dialed, could not be completed, and if possible, provides the correct number.

The number of end office switching transmission paths will be determined as set forth in 6.5.5 following.

6.1.3 Special Facilities Routing

Any customer may request that the facilities used to provide Switched Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in 11. following.

6.1.4 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the makeup of the facilities and services provided from the customer's premises to the first point of switching. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.1 General (Cont'd)6.1.5 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test, at the time of installation, the following parameters: loss, C-notched noise, C-message noise, 3-tone slope, d.c. continuity and operational signaling. When the Local Transport is provided with Interface Groups 2 through 6, and the Transport Termination is two-wire (i.e., there is a four-wire to two-wire conversion in Local Transport), balance parameters (equal level echo path loss) may also be tested.

6.1.6 Ordering Options and Conditions

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

6.1.7 CCSA and SS7 Signaling Option Testing Requirements

When CCSA and/or the SS7 signaling option with Feature Group D is ordered, network compatibility and other operational tests will be performed cooperatively by the Telephone Company and the customer. These tests will verify the capabilities as set forth in the Technical Publication TR-TSV-000905 and TR-TSV-000962.

6.1.8 Switched Access Service Collocation

Subject to the availability of space, Switched Access Service Collocation will be provided to interconnectors on a first come, first served basis.

The rates and regulations defined in PSC No. 15--COMMUNICATIONS, Section 6.A, Optical Transport Interconnection Service II and Section 6.B, Microwave Transport Interconnection Service apply to all Feature Groups B, C and D and CCSA Switched Access Service collocated interconnections. If the customer requests Telephone Company-provided multiplexing, the rates as set forth in tariff FCC No. 11, Sections 30.6.1(E)(1) and (2) will apply.

(C)
(C)

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ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Feature Groups

Switched Access Service is provided in four different Feature Group arrangements. The provision of each Feature Group requires Local Switching and Transport facilities and the appropriate Local Switching functions.

There are three specific transmission specifications (i.e., Types A, B and C) that have been identified for the provision of Feature Groups. The specifications provided are dependent on the Interface Group and the routing of the service, i.e., whether the service is routed directly to the end office or via an access tandem. The parameters for the transmission specifications are set forth in 6.4.1 following.

Feature Groups are arranged for either originating, terminating or two-way calling, based on the customer end office switching capacity ordered. Originating calling permits the delivery of calls from Telephone Exchange Service locations to the customer's premises or a collocated interconnection location. Terminating calling permits the delivery of calls from the customer's premises or a collocated interconnection location to Telephone Exchange Service locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously. For Direct Trunked Transport, the Telephone Company will work cooperatively with the customer to determine the directionality required.

There are various Local Transport and Local Switching optional features available with the Feature Groups. Unless specifically stated otherwise, these optional features, are available at all Telephone Company end office switches.

Following are detailed descriptions of each of the available Feature Groups, Entrance Facilities and Direct Trunked Transport. Each Feature Group is described in terms of its specific physical characteristics and calling patterns, the transmission specifications with which it is provided, the optional features available for use with it and the standard testing capabilities.

Each type of Entrance Facility and Direct Trunked Transport is described in terms of its specific physical characteristics, the transmission specifications with which it is provided and the capacity of transmission paths which may be carried over it.

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ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)6.2.1 Feature Group A (FGA)**

(C)(1)

(A) Description

- (1) FGA is provided in connection with Company electronic and electromechanical end offices. At the option of the customer, FGA is provided on a single or multiple line group basis and is arranged for originating calling only, terminating calling only, or two-way calling. FGA is arranged for use by the customer in the provision of its FX/ONAL service or MTS/WATS type service. (T)
- (2) FGA provides a line side termination at the first point of switching. The line side termination will be provided with either ground start* supervisory signaling or loop start supervisory signaling. The type of signaling is at the option of the customer. (C)
- (3) The Company shall select the first point of switching, within the selected LATA, at which the line side termination is to be provided unless the customer requests a different first point of switching and Company facilities and measurement capabilities, where necessary, are available to accommodate such a request. (T)
- (4) A seven digit local telephone number assigned by the Company is provided for access to FGA switching in the originating direction. The seven digit local telephone number will be associated with the selected end office switch and is of the form NXX-XXXX. (T)
- If the customer requests a specific seven digit telephone number that is not currently assigned, and the Company can, with reasonable effort, comply with that request, the requested number will be assigned to the customer. (T)
- (5) FGA switching, when used in the terminating direction, is arranged with dial tone start-dial signaling. When used in the terminating direction FGA switching may, at the option of the customer, be arranged for dial pulse or dual tone multifrequency address signaling, subject to availability of equipment at the first point of switching. When FGA switching is provided in a hunt group or uniform call distribution arrangement, all FGA switching will be arranged for the same type of address signaling.

* Ground Start may not be provided over fiber facilities and is only available where suitable facilities exist.

** This service is no longer available in the wire centers listed, and as outlined, in Section 16 of this Tariff.

(1) Reissued material scheduled to become effective February 28, 2019.

(N)(1)
(N)

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6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)6.2.1 Feature Group A (FGA)* (Cont'd)

(C)

(A) Description (Cont'd)

- (6) No address signaling is provided by the Telephone Company when FGA Switching is used in the originating direction. Address signaling in such cases, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.
- (7) FGA switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, local operator service (0- and 0+), Directory Assistance (411 where available and 555-1212), emergency reporting service (911 where available), exchange telephone repair (611 where available), time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate digits). Charges for FGA terminating calls requiring operator assistance or calls to 611 or 911 will only apply where sufficient call details are available. Additional non-access charges will also be billed on a separate account for (1) an operator surcharge, as set forth in the local exchange tariffs, for local operator assistance (0- and 0+) calls, (2) calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 (DIAL-IT) Network Services, and, (3) calls from a FGA line to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. For calls to Directory Assistance (411 where available and 555-1212), Local Transport rates for FGA Switched Access Service will not apply. Instead, Local Transport for calls to this service is subject to a per call rate as set forth in 30.9.2 following. Additionally, calls to Directory Assistance are subject to the Directory Assistance Service Request rate set forth in 30.9.1 following.

* This service is no longer available in the wire centers listed, and as outlined, in Section 16 of this Tariff.

(N)

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6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)6.2.1 Feature Group A (FGA) **(Cont'd)

(C)(1)

(A) Description (Cont'd)

- (8) When a FGA switching arrangement for an individual customer (a single line or entire hunt group) is discontinued at an end office, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

(B) Optional Features(1) Common Switching Optional Features

- (a) Hunt Group Arrangement
- (b) Uniform Call Distribution Arrangement
- (c) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement
- (d) Call Denial
- (e) Service Code Denial

(2) Transport Termination Optional Features

- (a) Two-way operation with dial pulse address signaling and loop start supervisory signaling
- (b) Two-way operation with dial pulse address signaling and ground start* supervisory signaling (C)
- (c) Two-way operation with dual tone multifrequency address signaling and loop start supervisory signaling

* Ground Start may not be provided over fiber facilities and is only available where suitable facilities exist. (N)

** This service is no longer available in the wire centers listed, and as outlined, in Section 16 of this Tariff. (N)(1)

(1) Reissued material scheduled to become effective February 28, 2019. (N)

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6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)6.2.1 Feature Group A (FGA) **(Cont'd) (C)(1)(B) Optional Features (Cont'd)(2) Transport Termination Optional Features (Cont'd)

- (d) Two-way operation with dual tone multifrequency address signaling and ground start* supervisory signaling (C)
- (e) Terminating operation with dial pulse address signaling and loop start supervisory signaling
- (f) Terminating operation with dial pulse address signaling and ground start* supervisory signaling (C)
- (g) Terminating operation with dual tone multifrequency address signaling and loop start supervisory signaling
- (h) Terminating operation with dual tone multifrequency address signaling and ground start* supervisory signaling (C)
- (i) Originating operation with loop start supervisory signaling
- (j) Originating operation with ground start* supervisory signaling (C)

(3) Local Transport Optional Features

- (a) Supervisory Signaling (as set forth in 6.1.2(A)(3)(a) preceding)
- (b) Customer Specified Entry Switch Receive Level

(4) Certain other features which may be available in connection with Feature Group A are provided under the Company's local and/or general exchange service tariffs. These are: (T)

- (a) Speed Calling
- (b) Remote Call Forwarding
- (c) IntraLATA extensions

* Ground Start may not be provided over fiber facilities and is only available where suitable facilities exist. (N)

** This service is no longer available in the wire centers listed, and as outlined, in Section 16 of this Tariff. (N)(1)

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6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)6.2.1 Feature Group A (FGA)* (Cont'd)

(C)

(C) Transmission Specifications

FGA is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 6. Type DB Data Transmission Parameters are provided with FGA to the first point of switching.

(D) Testing Capabilities

FGA is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line and milliwatt (102 type) test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, additional Cooperative Acceptance Testing and Nonscheduled Testing are available for FGA as set forth in 13.3.5 following.

6.2.2 Feature Group B (FGB)(A) Description

- (1) FGB, when directly routed to an end office (i.e., provided without the use of an access tandem switch), is provided at appropriately equipped Telephone Company electronic end office switches. When provided via Telephone Company designated electronic access tandem switches, FGB switching is provided at Telephone Company electronic and electromechanical end office switches.
- (2) FGB is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling.

* This service is no longer available in the wire centers listed, and as outlined, in Section 16 of this Tariff.

(N)

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6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)6.2.2 Feature Group B (FGB) (Cont'd)(A) Description (Cont'd)

- (3) FGB switching is provided with multifrequency address signaling in both the originating and terminating directions. Except for FGB switching provided with the automatic number identification (ANI) or rotary dial station signaling arrangements as set forth in 6.3 following, any other address signaling in the originating direction, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.
- (4) The access code non-900 Access Service FGB switching is a uniform access code. The form of the uniform access code is 950-XXXX for carriers. This uniform access code will be the assigned access number of all non-900 Access Service Switched Access Service provided to the customer by the Telephone Company. No access code is required for FGB switching used to provide 900 Access Service. The telephone number dialed by the customer's end users is in the form 1+900+NXX-XXXX.
- 5) FGB switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider and other customers' services (by dialing the appropriate digits). When directly routed to an end office, only those valid NXX codes served by that end office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. The customer will also be billed additional non-access charges for calls to certain community information services for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 (DIAL-IT) Network Service. Additionally, non-access charges will also be billed for calls from a FGB trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed

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6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)6.2.2 Feature Group B (FGB) (Cont'd)(A) Description (Cont'd)

(5) (Cont'd)

to 950-XXXX access codes, local operator assistance (1) (0- and 0+), Directory Assistance (411 where available and 555-1212), service codes (611 and 911 where available), 101XXXX access codes. Calls will be completed to Directory Assistance (NPA-555-1212) or (555-1212) when FGB switching is combined with Directory Assistance switching. The combination of FGB Switched Access Service with DA Service is provided as set forth in 9. following. FGB may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C and D.

(6) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGB switching is provided. When required by technical limitations or network considerations, a separate trunk group will be established for each type of FGB switching arrangement provided. Different types of FGB or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

(7) When all FGB switching arrangements are discontinued at an end office and/or in a LATA, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

(8) No charge applies to end users for calls to the FGB 950-XXXX access code.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)6.2.2 Feature Group B (FGB) (Cont'd)(B) Optional Features(1) Common Switching Optional Features

- (a) Automatic Number Identification (ANI)
- (b) Up to 7 Digit Outpulsing of Access Digits to customer

(2) Transport Termination Optional Features

- (a) Rotary Dial Station Signaling

(3) Local Transport Optional Features

- (a) Customer Specification of Local Transport Termination
- (b) Supervisory Signaling (as set forth in 6.1.2(A)(3)(a) preceding)
- (c) Customer Specified Entry Switch Receive Level

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6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)6.2.2 Feature Group B (FGB) (Cont'd)(C) Transmission Specifications

FGB is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the end office when routed directly or to the first point of switching when routed via an access tandem. Type C Transmission specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 6. Type DB Data Transmission Parameters are provided with FGB to the first point of switching.

(D) Testing Capabilities

FGB is provided, in the terminating direction where equipment is available, with seven 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, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Cooperative Scheduled Testing, Manual Scheduled Testing and Nonscheduled Testing are available as set forth in 13.3.5 following.

6.2.3 Feature Group C (FGC)(A) Description

- (1) FGC is provided at all Telephone Company end office switches on a direct trunk basis or via Telephone Company designated access tandem switches. FGC switching is provided to the customer (i.e., providers of MTS and WATS) at an end office switch unless Feature Group D end office switching is provided in the same office. When FGD switching is available, FGC switching will not be provided.

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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)(A) Description (Cont'd)

- (2) FGC is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with answer and disconnect supervisory signaling. Wink start start-pulsing signals are provided in all offices where available. In those offices where wink start start-pulsing signals are not available, delay dial start-pulsing signals will be provided, unless immediate dial pulse signaling is provided, in which case no start-pulsing signals are provided.
- (3) FGC is provided with multifrequency address signaling except in certain electromechanical end office switches where multifrequency signaling is not available. In such switches, the address signaling will be dial pulse, revertive pulse, immediate dial pulse or panel call indicator signaling, whichever is available. Up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Such called party number signals will be subject to the ordinary transmission capabilities of the Local Transport provided.
- (4) No access code is required for FGC switching. The telephone number dialed by the customer's end user shall be a seven or ten digit number for calls in the North American Numbering Plan (NANP). 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, when the end office is equipped for International Direct Distance Dialing (IDDD), 01 + CC + NN or 011 + CC + NN.

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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)(A) Description (Cont'd)

- (5) FGC switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information provider, and other customers' services (by dialing the appropriate codes) when the services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by offices subtending the access tandem may be accessed. Where measurement capabilities exist, the customer will also be billed non-access additional charges for calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 (DIAL-IT) Network Services. Additionally, non-access charges will also be billed for calls from a FGC trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-XXXX access codes, local operator assistance (0- and 0+), service codes (611 and 911 where available), 101XXXX access codes. Calls will not be completed to Directory Assistance (411 where available and 555-1212) unless FGC switching is combined with Directory Assistance switching. FGC may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C or D.
- (6) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGC switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGC switching arrangement provided. Different types of FGC or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

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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)(B) Optional Features(1) Common Switching Optional Features

- (a) Automatic Number Identification (ANI)
- (b) Service Class Routing
- (c) Dial Pulse Address Signaling
- (d) Revertive Pulse Address Signaling
- (e) Delay Dial Start-Pulsing Signaling
- (f) Immediate Dial Pulse Address Signaling
- (g) Panel Call Indicator Address Signaling
- (h) Alternate Traffic Routing

(2) Transport Termination Optional Features

- (a) Operator Trunks - i.e., Coin, Non-Coin and Combined Coin and Non-Coin. (Non-Coin Trunks are provided at Telephone Company electronic and electromechanical end offices. Coin and Combined Coin and Non-Coin are provided only at Telephone Company electronic end offices and other Telephone Company end offices where equipment is available.)
- (b) Operator Trunk-Full Feature

(3) Local Transport Optional Features

- (a) Supervisory Signaling (as set forth in 6.1.2(A)(3)(a) preceding)

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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) Transmission Specifications

FGC is provided with either Type B or Type C Transmission Specifications as follows:

- When routed directly to the end office either Type B or Type C is provided.
- When routed to an access tandem only Type B is provided.
- Type B or Type C is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1 when routed directly to an end office. Type B is provided with Interface Groups 2 through 6, whether routed directly to an end office or to an access tandem.

Type DB Data Transmission Parameters are provided with FGC for the transmission path between the customer's premises or a collocated interconnection location and the end office when directly routed to the end office, and Type DB Data Transmission Parameters are provided for the transmission path between the customer's premises or a collocated interconnection location and the access tandem and between the access tandem and the end office when routed via an access tandem.

(D) Testing Capabilities

FGC is provided, in the terminating direction where equipment is available, with seven 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, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Cooperative Scheduled Testing or Manual Scheduled Testing, and Nonscheduled Testing are available as set forth in 13.3.5 following for FGC.

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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)(A) Description

- (1) FGD is provided at Telephone Company designated end office switches whether routed directly or via Telephone Company designated access tandem switches.

For FGD with SS7 signaling option, the CCSA signaling connection is provided to Telephone Company designated STPs.

- (2) FGD is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment may be provided with wink start start-pulsing signals and answer and disconnect supervisory signaling, or without signaling when the SS7 signaling option is specified.

- (3) FGD switching may be provided at the customer's option, with multifrequency address signaling or common channel signaling.

With multifrequency address signaling, up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises or a collocated interconnection location where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Local Transport provided.

With common channel signaling, up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's designated premises via a Common Channel Signaling Access (CCSA) circuit. The SS7 signaling option requires the customer to order CCSA links as described in 6.1.2(A)(2)(e) preceding.

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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) FGD switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate codes) when such services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. The customer will also be billed additional non-access charges for calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 (DIAL-IT) Network Service. Additionally, non-access charges will also be billed for calls from a FGD trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-XXXX access codes, local operator assistance (0- and 0+), service codes (611 and 911 where available), 101XXXX access codes. Calls will not be completed to Directory Assistance (411 where available and 555-1212) unless FGD switching is combined with Directory Assistance switching. FGD may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C or D.
- (5) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGD switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGD switching arrangement provided. Different types of FGD or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

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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)

- (6) The access code for FGD switching is a uniform access code of the form 101XXXX. A single access code will be the assigned number of all FGD access provided to the customer by the Telephone Company. No access code is required for calls to a customer over FGD Switched Access Service if the end user's telephone exchange service is arranged for presubscription to that customer, as set forth in 13. following.

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 American Numbering Plan (NANP). 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, when the end office is equipped for International Direct Distance Dialing (IDDD), 01 + CC + NN or 011 + CC + NN.

When the 101XXXX access code is used, FGD switching also provides for dialing the digit 0 for access to the customer's operator, 911 for access to the Telephone Company's emergency reporting service, or the end-of-dialing digit (#) for cut-through access to the customer's premises.

- (7) FGD switching will be arranged to accept calls from telephone exchange service locations without the need for dialing the 101XXXX uniform access code. Each telephone exchange service line may be marked with a presubscription code to identify which 101XXXX code its calls will be directed to for interLATA service. Pre-subscription codes are applied as set forth in 13. following.

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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) No charge applies to end users for calls to the FGD 101XXXX access codes.
- (9) A charge applies for Automatic Number Identification as described in 6.7.1(B) and 30.8.3 following.
- (10) When a customer has had FGB access in an end office and subsequently replaces the FGB access with FGD access, at the customer's request and where facilities permit, the Telephone Company will, for a period of 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.
- (11) Originating FGD Switched Access Service must be ordered for the completion of sent-paid coin calls. FGD with coin sent-paid capability is provided direct to suitably equipped Telephone Company end offices or via TOPS tandem switches.

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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 (FGC) (Cont'd)(B) Nonchargeable Optional Features(1) Common Switching Optional Features

- (a) Service Class Routing
- (b) Alternate Traffic Routing
- (c) International Carrier Option

(2) Transport Termination Optional Features

- (a) Operator Trunk Full Feature Arrangement
- (b) Operator Trunk, Assist Feature Arrangement

(3) Local Transport Optional Features

- (a) Signaling System, 7 (SS7) signaling option as set forth in 6.1.2(A) (2)(d) preceding.
- (b) 64 kbps Clear Channel Capability as set forth in 6.1.2.(A)(2)(g) preceding.
- (c) Supervisory Signaling (as set forth in 6.1.2(A)(2)(a) preceding)

(C) Chargeable Optional Features

- (a) Automatic Number Identification originating only, as set forth in 6.7.1(B) and 8.3 following.
- (b) Carrier Identification Parameter as set forth in 6.3.3(E) following.

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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 (FGC) (Cont'd)(D) Transmission Specifications

FGD is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- When routed directly to the end office either Type B or C is provided.
- When routed to an access tandem only Type A is provided.
- Type A is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type A and Type B Transmission Specifications are provided with Interface Groups 2 through 6. Type DA Data Transmission Parameters are provided for the transmission path between the customer's premises or a collocated interconnection location and the access tandem and between the access tandem and the end office. Type DB Data Transmission Parameters are provided with FGD for the transmission path between the customer's premises or a collocated interconnection location and the end office when directly routed to the end office.

(E) Testing Capabilities

FGD is provided, in the terminating direction where equipment is available, with seven 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, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.5 and 6.1.7 preceding which are included with the installation of service, additional Cooperative Acceptance Testing, Cooperative Scheduled Testing, Manual Scheduled Testing, and Nonscheduled Testing, are available for FGD as set forth in 13.3.5 following.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)6.2.5 Entrance Facilities and Direct Trunked Transport(A) Description(1) Voice Grade

A Voice Grade facility provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. A Voice Grade Entrance Facility is provided between a customer designated premises and the serving wire center of the customer premises. In those instances where the Telephone Company may be unable to provide Entrance Facilities to the serving wire center of the customer premises, the Telephone Company will provide the service to a mutually agreed upon wire center. Mileage will be measured based on the V & H coordinates of the customer's appropriate serving wire center and not the alternate wire center the customer is actually served from. A Voice Grade Direct Trunked Transport Facility may be provided between the serving wire center of the customer premises or an Intermediate or Super Intermediate Hub and either an end office or an access tandem.

(2) DS1 Facility

A DS1 facility provides for the transmission of up to 24 Voice Grade equivalent channels. The actual bit rate and framing formats are a function of the channel interface selected by the customer. A DS1 Entrance Facility is provided between a customer designated premises or a collocated interconnection location and the serving wire center of the customer premises or a collocated interconnection location. In those instances where the Telephone Company may be unable to provide Entrance Facilities to the serving wire center of the customer premises or a collocated interconnection location, the Telephone Company will provide the service to a mutually agreed upon wire center. Mileage will be measured based on the V & H coordinates of the customer's appropriate serving wire center and not the alternate wire center the customer is actually served from. A DS1 Direct Trunked Transport facility may be provided between the serving wire center of the customer designated premises or a collocated interconnection location and an end office, access tandem or Telephone Company multiplexing Hub. DS1 Direct Trunked Transport may also be provided between a Hub and an end office or access tandem.

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The DS3 facility provides for the transmission of up to 672 Voice Grade equivalent channels on digital optical equipment and lightwave facilities selected by the Telephone Company. A DS3 Entrance Facility is provided between the customer designated premises or a collocated interconnection location and the serving wire center of the customer premises or a collocated interconnection location. In those instances where the Telephone Company may be unable to provide Entrance Facilities to the serving wire center of the customer premises or a collocated interconnection location, the Telephone Company will provide the service to a mutually agreed upon wire center. Mileage will be measured based on the V&H coordinates of the customer's appropriate serving wire center and not the alternate wire center the customer is actually served from. At the customer premises or a collocated interconnection location, an optical fiber interface and digital optical equipment convert the signal from optical to electrical. A 110 volt AC, 15 amperes, separately fused, non-switched controlled, single power outlet must be provided by the customer at the customer designated premises or a collocated interconnection location. A DS3 Direct Trunked Transport facility may be provided between the serving wire center of the customer designated premises or a collocated interconnection location and an end office, access tandem or Telephone Company multiplexing Hub.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)6.2.5 Entrance Facilities and Direct Trunked Transport (Cont'd)(A) Description (Cont'd)(3) DS3 Facility (Cont'd)

At the option of the customer, a DS3 facility may be provided with an optical interface at four levels of capacity, (i.e., as three (135 Mbps), nine (405 Mbps), twelve (560 Mbps) groups) or forty eight (2.488 Gbps) DS3 facilities. The customer may order a minimum of 1 and a maximum of 3 DS3 facilities for the 135 Mbps capacity; a minimum of 2 and a maximum of 9 DS3 channels for the 405 Mbps capacity; a minimum of 2 and a maximum of 12 DS3 channels for the 560 Mbps capacity; or a minimum of 7 and a maximum of 48 DS3 channels for the 2.488 Gbps capacity. The Optical DS3 may be provided as an Entrance Facility between a customer designated premises and the serving wire center of the customer designated premises subject to the availability of facilities. In those instances where the Telephone Company may be unable to provide Entrance Facilities to the serving wire center of the customer premises, the Telephone Company will provide the service to a mutually agreed upon wire center. Mileage will be measured based on the V&H coordinates of the customer's appropriate serving wire center and not the alternate wire center the customer is actually served from.

The customer must provide Optical Line Terminating Multiplexing Equipment (OLTME) in lieu of Telephone Company provided digital optical equipment. Within each capacity level, individual DS3 facilities will be derived from OLTME equipment at the serving wire center of the customer designated premises. The customer provided OLTME must be compatible with the OLTME equipment employed by the Telephone company as listed below. The customer may also employ any device that supports an OC3 or OC12 interface as described in TR-NWT-000253, Issue No. 2 for Synchronous Optical Network (SONET) Transport Systems or any device that supports an OC48 interface as described in FLM Series SONET Phase II Interface Disclosure. The Telephone Company employs the following OLTME equipment:

- NEC Model 1840A or Rockwell Model 3X50 for 135 Mbps capacity
- AT&T Model FT Series G for 405 Mbps capacity
- NEC Model 31201A or Rockwell Model 1565D) for 560 Mbps capacity

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Compatible channel interfaces for Voice Grade, DS1 or DS3 Entrance Facilities are set forth in 6.1.2(A)(1) preceding.

(C) Transmission Specifications

The transmission specifications for Voice Grade, DS1 and DS3 facilities are set forth in 6.4 following.

6.3 Local Switching Optional Features

Following are descriptions of the various optional features that are available in lieu of, or in addition to, the standard features provided with the Feature Groups. They are provided as either Common Switching or Transport Termination options.

6.3.1 Common Switching Optional Features(A) Call Denial on Line or Hunt Group

This option allows for the screening of terminating calls within the LATA, and for the completion only of calls to 411, 611, 911, 800, 555-1212, and a Telephone Company specified set of NXXs within the Telephone Company local exchange calling area of the dial tone office in which the arrangement is provided. All other "toll" calls are routed to a reorder tone or recorded announcement. This feature is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices. It is available with Feature Group A.

(B) Service Code Denial on Line or Hunt Group

This option allows for the screening of terminating calls within the LATA, and for disallowing completion of calls to 0-, 555 and N11 (e.g., 411, 611, and 911). This feature is provided where available in all Telephone Company electronic end offices and electromechanical end offices. It is available with Feature Group A.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.3 Local Switching Optional Features6.3.1 Common Switching Optional Features (Cont'd)(C) Hunt Group Arrangement

This option provides the ability to sequentially access one of two or more line side connections in the originating direction, when the access code of the line group is dialed. This feature is provided in all Telephone Company end offices. It is available with Feature Group A.

(D) Uniform Call Distribution Arrangement

This option provides a type of multiline hunting arrangement which provides for an even distribution of calls among the available lines in a hunt group. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

(E) Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement

This option provides an arrangement for an individual line within a multiline hunt or uniform call distribution group that provides access to that line within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

(F) Automatic Number Identification (ANI)

This option provides the automatic transmission of a seven or ten digit number and information digits to the customer's premises for calls originating in the LATA, to identify the calling station. The ANI feature is an end office software function which is associated on a call-by-call basis with (1) all individual transmission paths in a trunk group routed directly between an end office and an access tandem and a customer's premises or a collocated interconnection location or, where technically feasible, with (2) all individual transmission paths in a trunk group between an end office and an access tandem.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.3 Local Switching Optional Features (Cont'd)6.3.1 Common Switching Optional Features (Cont'd)(F) Automatic Number Identification (ANI) (Cont'd)

The seven digit ANI telephone number is available with Feature Groups B and C. With these Feature Groups, technical limitations may exist in Company switching facilities which require ANI to be provided only on a directly trunked basis. ANI will be transmitted on all calls except those originating from Public Telephone Service using Feature Group B, or when an ANI failure has occurred. (T) (C)

The ten digit ANI telephone number is only available with Feature Group D provided with multifrequency address signaling. The ten digit ANI telephone number consists of the Number Plan Area (NPA) plus the seven digit ANI telephone number. The ten digit ANI telephone number will be transmitted on all calls except those identified as ANI failure, in which case only the NPA will be transmitted. In addition, an ANI charge applies as described in 6.7.1 (B) following. (C)

When the SS7 signaling option is specified, the customer will be provided a Charge Number feature. The Charge Number is the equivalent of ANI in the CCSA/SS7 environment. The Charge Number feature is specified in 6.3.3(B) following.

With Feature Group C, ANI is provided from end offices at which Company recording for end user billing is not provided, or where it is not required, as with 800 service. It is not provided from end offices for which the Company needs to forward ANI to its recording equipment. (T) (T)

Where ANI cannot be provided, information digits will be provided to the customer. (C)

The information digits identify: (1) telephone number is the station billing number – no special treatment required, (2) ANI failure has occurred in the end office switch which prevents identification of calling telephone number – must be obtained by operator or in some other manner, (3) hotel/motel originated call which requires room number identification, (C) (T)

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6. SWITCHED ACCESS SERVICE (Cont'd)6.3 Local Switching Optional Features (Cont'd)6.3.1 Common Switching Optional Features (Cont'd)(F) Automatic Number Identification (ANI) (Cont'd)

(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.

These ANI information digits are available with Feature Groups B, C, and D.

Additional ANI information digits are available with Feature Group D only. They include.

- (1) InterLATA restricted – Telephone number is identified line
- (2) InterLATA restricted – hotel/motel line
- (3) InterLATA restricted – coinless, hospital, inmate, etc., line

These information digits will be transmitted as agreed to by the customer and the Telephone Company

(G) Up to 7 Digit Outpulsing of Access Digits to IC

This option provides for the end office capability of providing up to 7 digits of the uniform access code (950-XXXX) to the customer's premises. The customer can request that only some of the digits in the access code be forwarded. The access code digits would be provided to the customer's premises using multi-frequency signaling, and transmission of the digits would precede the forwarding of ANI if that feature were provided. It is available with Feature Group B.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.3 Local Switching Optional Features (Cont'd)6.3.1 Common Switching Optional Features (Cont'd)(H) Revertive Pulse Address Signaling

This option provides for a dc pulsing arrangement that transmits intelligence in the following manner:

- (1) The equipment at the originating location presets itself to represent the number of pulses required and to count the pulses received from the terminating location.
- (2) The equipment at the terminating location transmits a series of pulses by the momentary grounding of its battery supply until the originating location breaks the dc path to indicate that the required number of pulses has been counted.

This option is available with Feature Group C.

(I) Delay Dial Start-Pulsing Signaling

This option provides a method of indicating to the near end trunk circuit readiness to accept address signaling information by the far end trunk circuit. Delay dial is often referred to as an off-hook, on-hook signaling sequence. The delay dial signal is the off-hook interval and the start-pulsing signal is the on-hook interval. With integrity check, the calling office will not outpulse until a delay dial (off-hook) signal followed by a start-pulsing (on-hook) signal has been identified at the calling office. This option is available with Feature Group C.

(J) Immediate Dial Pulse Address Signaling

This option provides for the forwarding of dial pulses from the Telephone Company end office to the customer without the need of a start-pulsing signal from the customer. It is available with Feature Group C.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.3 Local Switching Optional Features (Cont'd)6.3.1 Common Switching Optional Features (Cont'd)(K) Dial Pulse Address Signaling

This trunk side option provides for the transmission of number information, e.g., called number, between the end office switching system and the customer's premises (in either direction) by means of direct current pulses. It is available with Feature Group C.

(L) Panel Call Indicator Address Signaling

This option provides a dc pulsing arrangement in which each digit is transmitted as a series of four marginal and polarized impulses. It is available with Feature Group C.

(M) Service Class Routing

This option provides the capability of directing originating traffic from an end office to a trunk group to a customer designated premises based on the line class of service (e.g., coin or hotel/motel), service prefix indicator (e.g., 0-, 0+, 01+ or 011+), service access code (e.g., 800 or 900) and/or bearer capability. With the exception of Service Class Routing by bearer capability, Service Class Routing is provided in suitably equipped end office or access or TOPS tandem switches and is available as a non-chargeable option with Feature Group C or D. Service Class Routing by bearer capability is only available in suitably equipped end offices as a non-chargeable option with Feature Group D when ordered with the SS7 Signaling Option. (C)

(N) Alternate Traffic Routing

This option provides the capability of directing originating traffic from an end office (or appropriately equipped access tandem) to a trunk group (the "high usage" group) to a customer designated premises until that group is fully loaded, and then delivering additional originating traffic (the "overflowing" traffic) from the same end office or access tandem to a different trunk group (the "final" group) to a second customer designated premises. The customer shall specify the last trunk CCS desired for the high usage group. It is provided in suitably equipped end office or access tandem switches and is available with Feature Groups C and D.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.3 Local Switching Optional Features (Cont'd)6.3.1 Common Switching Optional Features (Cont'd)(O) International Carrier Option

This option allows for Feature Group D end offices or access tandem switches equipped for International Direct Distance Dialing to be arranged to forward the international calls of one or more international carriers to the customer (i.e., the Telephone Company is able to route originating international calls to a customer other than the one designated by the end user either through pre-subscription, 10XXX or 101XXXX dialing). This arrangement requires provision of written verification to the Telephone Company that the IC is authorized to forward such calls. The written verification must be in the form of a letter of agency authorizing the customer to order the option on behalf of the international carrier. This option is only provided at Telephone Company end offices or access tandems equipped for International Direct Distance Dialing. It is available with Feature Group D.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.3 Local Switching Optional Features (Cont'd)6.3.2 Transport Termination Optional Features(A) Rotary Dial Station Signaling

This option provides for the transmission of called party address signaling from rotary dial stations to the customer's premises for originating calls. This option is provided in the form of a specific type of Transport Termination. It is available with Feature Group B, only on a directly trunked basis.

(B) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin

This option may be ordered to provide coin, non-coin, or combined coin and non-coin operation. It is available only with Feature Group C and is provided in electronic end offices and other Telephone Company end offices where equipment is available. It is provided as a trunk type of Transport Termination.

Coin:

This arrangement provides for initial coin return control and routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating coin calls requiring operator assistance to the customer's premises. Because operator assisted coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.3 Local Switching Optional Features (Cont'd)6.3.2 Transport Termination Optional Features (Cont'd)(B) Operator Trunk- Coin, Non-Coin, or Combined Coin and Non-Coin (Cont'd)

The operator assistance coin calling arrangement is also normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's TSPS systems, rather than in the customer's manual cord boards.

Non-Coin:

This arrangement provides for the routing of 0+, 0-, I+, 01+ or 011+ prefixed originating non-coin calls requiring operator assistance to the customer's premises. Because operator assisted non-coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

The operator assistance non-coin calling arrangement is also normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's TSPS systems, rather than in the customer's manual cord boards. When so equipped, the ANI feature provides for the forwarding of information digits which identify that the call has originated from a hotel or motel, and whether room number identification is required, or that special screening is required, e.g., for payphone, dormitory or inmate stations, or other screening arrangements agreed to between the customer and the Telephone Company.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.3 Local Switching Optional Features (Cont'd)6.3.2 Transport Termination Optional Features (Cont'd)(B) Operator Trunk- Coin, Non-Coin, or Combined Coin and Non-Coin (Cont'd)

Combined Coin and Non-Coin:

This arrangement provides for initial coin return control and routing of 0+, 0-, 1+, 01+ or 011+ prefixed originating operator assisted coin and non-coin calls requiring operator assistance to the customer's premises. Because operator assisted coin and non-coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

This arrangement is normally ordered by the customer in conjunction with the AN1 optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's operator services systems, rather than in the customer's manual cord boards. When so equipped, the AN1 optional feature provides for the forwarding of information digits which identify that the call has originated from a hotel or motel, and whether room number identification is required, or that special screening is required, e.g., for payphone, dormitory or inmate stations, or other screening arrangements agreed to between the customer and the Telephone Company.

(C) Operator Trunk - Full Feature

This option provides the operator functions available in the end office to the customer's operator. These functions are (1) Operator Released, (2) Operator Attached, (3) Coin Collect, (4) Coin Return, and (5) Ringback. It is available with Feature Groups C and D and is provided as a trunk type of Transport Termination. This option is not available in combination with the SS7 signaling option.

(D) Operator Trunk - Assist Feature

This option provides the operator functions available in the end office to the customer's operator. These functions are (1) Operator Released and (2) Operator Attached. It is available with Feature Group D and is provided as a trunk type of Transport Termination. This option is not available with the SS7 signaling option.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.3 Local Switching Optional Features (Cont'd)6.3.3 SS7 Signaling Option(A) Calling Party Number (CPN)

This feature provides for the automatic transmission of the calling party's ten digit telephone number to the customer's premises for calls originating in the LATA or from the customer's premises for calls terminating in the LATA. The ten digit telephone number consists of the NPA plus the seven digit telephone number, which may or may not be the same number as the calling station's charge number. This feature is provided with Feature Group D when ordered with the SS7 signaling option.

The Calling Party Number (CPN) Parameter may not be modified by the customer. When CPN is included within an SS7 Initial Address Message (IAM), the interconnecting network may not alter the information received within this parameter. This includes the setting of the CPN Address Presentation Restriction Indicator. When CPN is to be transmitted to another switch in the call path, this information element must be transmitted as received.

(B) Charge Number (CN)

The feature provides for the automatic transmission of the ten digit billing number of the calling station number and originating line information. This feature is provided with Feature Group D when ordered with the SS7 signaling option.

(C) Carrier Selection Parameter (CSP)

This feature 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. This feature is provided with Feature Group D when ordered with the SS7 signaling option.

The specific protocols for Calling Party Number, Charge Number and Carrier Selection Parameter features are contained in the Technical Publication TR-TSV-000905.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.3 Local Switching Optional Features (Cont'd)6.3.3 SS7 Signaling Option (Cont'd)(D) Access Transport Parameter (ATP)

This feature provides for the automatic transmission of Called Party Subaddress, Calling Party Subaddress, High Layer Compatibility and Low Layer Compatibility, as described in the Technical Publication TR-TSV-000962, with calls originating or terminating to an Integrated Services Digital Network (ISDN). ATP is available with Feature Group D when ordered with the 64 kbps Clear Channel Capability optional feature. This feature is provided with the SS7 Signaling Option. The specific protocols for Calling Party Number, Charge Number, Carrier Selection Parameter and Access Transport Parameter features are contained in the Technical Publications TR-TSV-000905 and TR-TSV-000962.

(E) Carrier Identification Parameter (CIP)

This feature provides for the transmission of Carrier Identification Code (CIC) information to customers on originating Feature Group D Switched Access Service. CIP is available from suitably equipped end offices and access tandems, when the SS7 Signaling Option is specified. When CIP is provided, the switch will transmit, to the customer premises, the 3 or 4 digit CIC of the presubscribed line, or the CIC selected when the end user places a call using 101XXXX dialing. CIP is available on an originating basis as a chargeable optional feature with originating or two-way FGD trunk groups.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.4 Transmission Specifications

Each Switched Access Service transmission path is provided with a standard transmission performance. There are three different standard performances (Types A, B and C). The standard for a particular transmission path is dependent on the Feature Group, the Entrance Facility, the Interface Group and whether the service is direct end office routed or routed via an access tandem. The available transmission specifications are set forth in 6.4.1 following. Data Transmission Parameters are also provided with each Switched Access Service transmission path. The Telephone Company will, upon notification by the customer that the data parameters set forth in 6.4.2(A) or 6.4.2(B) are not being met, conduct tests independently or in cooperation with the customer, and take any necessary action to insure that the data parameters are met.

The Telephone Company will maintain existing transmission specifications on service configurations installed prior to January 1, 1984, except that service configurations having performance specifications exceeding the standards listed in this provision will be maintained at performance levels specified in this tariff.

The transmission specifications contained in this Section are immediate action limits. Acceptance limits are set forth in Technical Reference TR-NPL-000334, Issue No. 1. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

Transmission specifications for CCSA signaling connections are set forth in the Technical Publication TR-TSV-000905.

6.4.1 Standard Transmission Specifications

Following are descriptions of the three Standard Transmission Specifications available with Switched Access Service Feature Groups. The specific applications in terms of the Feature Groups, Entrance Facilities and Interface Groups with which Feature Group Standard Transmission Specifications are provided are set forth in 6.2.1(C), 6.2.2(C), 6.2.3(C), and 6.2.4(D) preceding.

(A) Type A Transmission Specifications

Type A Transmission Specifications are provided with the following parameters:

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6. SWITCHED ACCESS SERVICE (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(A) Type A Transmission Specifications (Cont'd)(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 2.0 dB

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -1.0 dB to +3.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	32 dBrnCO
51 to 100	34 dBrnCO
101 to 200	37 dBrnCO
201 to 400	40 dBrnCO
401 to 1000	42 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone, is less than or equal to 45 dBrnCO.

(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

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6. SWITCHED ACCESS SERVICE (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(A) Type A Transmission Specifications (Cont'd)(5) Echo Control (Cont'd)

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	21 dB	14dB
POT to End Office		
- Direct	N/A	N/A
- Via Access Tandem	16 dB	11dB

(6) Standard Return Loss

Standard Return Loss expressed as Echo Return Loss and Singing Return Loss on two-wire ports of a four-wire point of termination shall be equal to or greater than:

<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
5 dB	2.5 dB

(B) Type B Transmission Specifications

Type B Transmission Specifications is provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 2.5 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(B) Type B Transmission Specifications (Cont'd)(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type B1</u>	<u>Type B2</u>
less than 50	32 dBrnCO	35 dBrnCO
51 to 100	33 dBrnCO	37 dBrnCO
101 to 200	35 dBrnCO	40 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnCO.

(5) Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for FGC and FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's Point of Termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Feature Group, type of termination, and type of transmission path. They are greater than or equal to the following:

* For Feature Groups C and D, only Type B2 will be provided. For Feature Groups A and B, Type B1 or 82 will be provided as set forth in Technical Reference PUB 62500.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(B) Type B Transmission Specifications (Cont'd)(5) Echo Control (Cont'd)

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem		
- Terminated in 4-Wire trunk	21 dB	14 dB
- Terminated in 2-Wire trunk	16 dB	11 dB
POT to End Office		
- Direct	16 dB	11 dB
- Via Access Tandem		
. For FGB access	8 dB	4 dB
. For FGC access (Effective 4-Wire trans- mission path at end office)	16 dB	11 dB
. For FGC access (Effective 2-Wire trans- mission path at end office)	13 dB	6 dB

(6) Standard Return Loss

Standard Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire ports of a four-wire point of interface shall be equal to or greater than:

Echo Return Loss
5 dB

Singing Return Loss
2.5 dB

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6. SWITCHED ACCESS SERVICE (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(C) Type C Transmission Specifications

Type C Transmission Specifications is provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 3.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type C1</u>	<u>Type C2</u>
less than 50	32 dBrnCO	38 dBrnCO
51 to 100	33 dBrnCO	39 dBrnCO
101 to 200	35 dBrnCO	41 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnCO.

* For Feature Groups C and D, only Type C2 will be provided. For Feature Groups A and B, Type C1 or C2 will be provided as set forth in Technical Reference PUB 62500.

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ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.1 Standard Transmission Specifications (Cont'd)(C) Type C Transmission Specifications (Cont'd)(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is dependent on the routing, i.e., whether the service is routed directly from the customer's Point of Termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	13 dB	6 dB
POT to End Office		
- Direct	13 dB	6 dB
- Via Access Tandem (for FGB only)	8 dB	4 dB

6.4.2 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided. The specific applications in terms of the Feature Groups with which they are provided are set forth in 6.2.1(C), 6.2.2(C), 6.2.3(C), and 6.2.4(D) preceding. Following are descriptions of each.

(A) Data Transmission Parameters Type DA(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

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ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.2 Data Transmission Parameters (Cont'd)(A) Data Transmission Parameters Type DA (Cont'd)(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

<u>604 to 2804 Hz</u>	
less than 50 route miles	500 microseconds
equal to or greater than 50 route miles	900 microseconds

<u>1004 to 2404 Hz</u>	
less than 50 route miles	200 microseconds
equal to or greater than 50 route miles	400 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	33 dB
Third Order (R3)	37 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

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ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.4 Transmission Specifications (Cont'd)6.4.2 Data Transmission Parameters (Cont'd)(B) Data Transmission Parameters Type DB(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

	<u>604 to 2804 Hz</u>	
less than 50 route miles		800 microseconds
equal to or greater than 50 route miles		1000 microseconds
	<u>1004 to 2404 Hz</u>	
less than 50 route miles		320 microseconds
equal to or greater than 50 route miles		500 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBmC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 7° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

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ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.5 Obligations of the Telephone Company

In addition to the obligations of the Telephone Company set forth in 2. preceding, the Telephone Company has certain other obligations pertaining only to the provision of Switched Access Service. These obligations are as follows:

6.5.1 Network Management

The Telephone Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services. Generally, service levels are considered acceptable only when both end users and customers are able to establish connections with little or no delay encountered within the Telephone Company network. The Telephone Company maintains the right to apply protective controls, i.e., those actions, such as call gapping, which selectively cancel the completion of traffic, over any traffic carried over its network including that associated with a customer's Switched Access Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of Telephone Company or customer facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer, the customer will be granted a Credit Allowance for Service Interruption as set forth in 2.4.4(B)(1) preceding.

6.5.2 Design and Traffic Routing of Tandem Switched Trunks

For Tandem Switched Access Service when ordered in busy hour minutes of capacity, the Telephone Company shall design and determine the selection of facilities from the access tandem to the subtending end offices. The Telephone Company shall also decide if capacity is to be provided by originating only, terminating only, or two-way trunk groups. Finally, the Telephone Company will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment. Selection of facilities and equipment are based on standard engineering methods and available facilities and equipment. If the customer desires routing or directionality different from that determined by the Telephone Company, the Telephone Company will work cooperatively with the customer in determining the directionality of the service.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.2 Design and Traffic Routine of Tandem Switched Trunks (Cont'd)

For Tandem Switched Trunks, the customer desired directionality and/or traffic routing of the Switched Access Service between the customer's premises or a collocated interconnection location and the entry switch are specified on the customer's order for service. Additionally, for Feature Group B the customer may order the optional feature Customer Specification of Local Transport Termination.

6.5.3 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to the Telephone Company through its own service evaluation routines, may also be made available to the customer based on previously arranged intervals and format. These data provide information on overall end-to-end call completion and non-completion performance, e.g., customer equipment blockage, failure results and transmission performance. These data do not include service performance data which are provided under other tariff section, e.g., testing service results. If data are to be provided in other than paper format, the charges for such exchange will be determined on an individual case basis.

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ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.4 Trunk Group Measurement Reports

Subject to available, the Telephone Company will make available trunk group data in the form of usage in CCS, peg count and overflow, to the customer based on previously agreed to intervals.

6.5.5 Determination of Number of End Office Transport Terminations (End Office Trunk Ports)

For analog entry switches, a termination will be provided for each transmission path provided. For digital entry switches, an equivalent termination will be provided for each transmission path provided.

6.5.6 Design Blocking Probability

The Telephone Company will monitor the facilities used in the provision of Switched Access Service to meet the blocking probability criteria as set forth in (A) through (D) following.

- (A) For Feature Group A and Feature Group B not used to provision 900 Access Service, no design blocking criteria apply. For Feature Group B used to provision 900 Access Service, the design blocking objective will be no greater than one percent (.01)* between the point of termination at the customer's premises or a collocated interconnection location and the Telephone Company office at which the customer identification function is performed.
- (B) For Feature Group C, the design blocking objective will be no greater than one percent (.01)* between the point of termination at the customer's premises or a collocated interconnection location and the first point of switching when traffic is directly routed without an alternate route. Standard traffic engineering methods will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.

* In the event of 900 Access Service media stimulated calling, the design blocking objective of no greater than (.01) percent will not be guaranteed.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.6 Design Blocking Probability (Cont'd)

- (C) For Feature Group D, the design blocking objective will be no greater than one percent (.01)* between the point of termination at the customer's premises or a collocated interconnection location and the end office switch, whether the traffic is directly routed without an alternate route or routed via an access tandem. Standard traffic engineering methods as set forth in reference document Technical Reference PUB SR EOP-000191 Trunk Traffic Engineering Concepts and applications will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.

* In the event of 900 Access Service media stimulated calling, the design blocking objective of no greater than (.01) percent will not be guaranteed.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.6 Design Blocking Probability (Cont'd)

(D) The Telephone Company will perform routine measurement functions except on Feature Groups A and B to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional capacity (i.e., busy hour minutes of capacity or trunks) be ordered by the customer when additional paths are required to reduce the measured blocking to the designed blocking level. For the capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following tables.

- (1) For transmission paths carrying only first routed traffic direct between an end office and customer's premises or a collocated interconnection location without an alternate route, and for paths carrying only overflow traffic, the measured blocking thresholds are as follows:

<u>Number of Transmission Paths Per Trunk Group</u>	<u>Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m. Per Trunk Group</u>			
	<u>15-20 Measurements</u>	<u>11-14 Measurements</u>	<u>7-10 Measurements</u>	<u>3-6 Measurements</u>
2	.070	.080	.090	.140
3	.050	.060	.070	.090
4	.050	.060	.070	.080
5-6	.040	.050	.060	.070
7 or more	.030	.035	.040	.060

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6. SWITCHED ACCESS SERVICE (Cont'd)6.5 Obligations of the Telephone Company (Cont'd)6.5.6 Design Blocking Probability (Cont'd)

(D) (Cont'd)

- (2) For transmission paths carrying first routed traffic between an end office and customer's premises or a collocated interconnection location via an access tandem, the measured blocking thresholds are as follows:

	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m.			
	<u>Number of Transmission Paths Per Trunk Group</u>	<u>15-20 Measurements</u>	<u>11-14 Measurements</u>	<u>7-10 Measurements</u>
2	.045	.055	.060	.095
3	.035	.040	.045	.060
4	.035	.040	.045	.055
5-6	.025	.035	.040	.045
7 or more	.020	.025	.030	.040

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6. SWITCHED ACCESS SERVICE (Cont'd)6.6 Obligations of the Customer

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

6.6.1 Facility Requirements

When ordering Switched Access Service, the customer must, at a minimum, specify the Local Transport Entrance Facility, either existing or new, to be used and whether Direct Trunked Transport or Tandem Switched Transport is to be furnished. When Direct Trunked Transport is to be furnished, the customer must also specify the Direct Trunked Transport to be used, either existing or new.

6.6.2 Determination of Number of Transmission Paths

For Feature Groups A and B, which are ordered on a per line or per trunk basis respectively, and Feature Group D when ordered on a per trunk basis, the customer specifies the Entrance Facility, the Direct Trunked Transport, if applicable and the number of transmission paths in the order for service. A transmission path is a communication path within the frequency bandwidth of approximately 300 to 3000 Hz or a derived communication path of a frequency bandwidth of approximately 300 Hz to 3000 Hz provided over a high frequency analog facility or a high speed digital facility between a customer's premises or a collocated interconnection location and a Telephone Company location.

For CCSA signaling connections provided by the Telephone Company or an Interconnector, the number of transmission paths must be ordered in multiples of 2 or 4. If the CCSA signaling connection is ordered to a customer's STP, a multiple of 4 transmission paths must be ordered. If the CCSA signaling connection is ordered to a customer's Signaling Point (SP) a multiple of 2 transmission paths must be ordered.

In those cases, when the STP Link Transport is provided by an Interconnector, the Interconnector must conform to the specifications referenced in Technical Publication TR-TSV-000905 including link diversification/network reliability. The Telephone Company will work cooperatively with the Interconnector to assure adherence to these guidelines.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.6 Obligations of the Customer (Cont'd)6.6.3 Report Requirements

Customers are responsible for providing the following reports to the Telephone Company, when applicable.

(A) Jurisdictional Reports

When a customer orders Switched Access Service for both interstate and intrastate use, the customer is responsible for providing reports as set forth in 2.3.10 preceding. Charges will be apportioned in accordance with those reports. The method to be used for determining the intrastate charges is set forth in 2.3.11 preceding.

(B) Code Screening Reports

When a customer orders service class routing, it must report the number of trunks and/or the appropriate codes to be instituted in each end office or access tandem switch, for each of the arrangements ordered.

(C) 900 Access Service Report Requirements

The Telephone Company will administer its network in such a manner that the impact of traffic surges due to peaked 900 Access Service traffic on other access service traffic is minimized. The Telephone Company may, at its option, implement network management controls (e.g., call gapping) to ensure acceptable service levels as defined in Section 6.5.1.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.6 Obligations of the Customer (Cont'd)6.6.3 Report Requirements (Cont'd)(C) 900 Access Service Report Requirements (Cont'd)

In order to ensure deployment of adequate protective controls, customers must provide notice of 900 media stimulated calling events to the Network Surveillance and Management Analysis Center at least two (2) business days prior to the event. The Telephone Company will work cooperatively with the customer to determine the appropriate level of such controls.

A customer's failure to notify the Telephone Company, as stated above, may result in a discontinuance of service as specified in Section 2.1.8 preceding.

6.6.4 Supervisory Signaling

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

6.6.5 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 the Telephone Company. These data will be used to monitor trunk group utilization and service performance and will be based on previously arranged intervals and format.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.6 Obligations of the Customer (Cont'd)6.6.6 Design of Switched Access Service

When a customer orders Switched Access Service on a per line or per trunk basis, the customer shall take reasonable steps to assure that sufficient access services have been ordered to handle its traffic.

6.6.7 Tandem Switching Providers

When the Tandem Signaling Option is ordered with the SS7 Signaling Option, the Tandem Switching Provider must set the *Texm d* timer to a value no greater than 300 milliseconds.

When tandem routed service is provided by a Tandem Switching Provider, and the customer(s) of record for the terminating switched access usage charges is the Tandem Switching Provider, the terminating minutes of use provided through the Tandem Switching Provider location are the responsibility of the Tandem Switching Provider. At the Tandem Switching Provider's request, the Telephone Company will bill each of the Tandem Switching Provider's customers directly for their respective usage, if the Tandem Switching Provider agrees to furnish the Telephone Company, free of charge, the call detail information necessary to bill its customers. [The Tandem Switching Provider shall submit this information to the Telephone Company daily] via Network Data Mover (NDM) electronic transmission in industry standard EMI format as set forth in BR-190402-215 and BR-010200-010. If the Tandem Switching Provider fails to provide the call detail information or fails to provide the information in the required format within thirty (30) days from the call activity date, then the Tandem Switching Provider will be billed for that day's usage. Where the total usage measured by the Telephone Company differs from the total amount of usage provided by the Tandem Switching Provider's call detail information, the Telephone Company will work cooperatively with the Tandem Switching Provider to resolve the discrepancies.

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.6 Obligations of the Customer (Cont'd)

6.6.7 Tandem Switching Providers (Cont'd)

The Tandem Switching Provider must retain documentation support of the billing information for a period of fifteen (15) months after submission of the billing data to the Telephone Company. The Telephone Company reserves the right to audit the billing information upon thirty (30) days' notice to the Tandem Switching Provider. In the event of a discrepancy, if final agreement cannot be reached, charges will be billed based on the results of the audit.

6.7 Rate Regulations

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

6.7.1 Description and Application of Rates and Charges

There are three types of rates and charges that apply to Switched Access Service. These are usage rates, nonrecurring charges and monthly rates. Nonrecurring charges and monthly rates are applied as set forth in 6.7.1(A), (C) and (H) following.

Usage rates applied on a per minute basis are applied differently to the various elements as set forth in (D) following.

(A) Usage Rates

Usage rates are rates that apply only when a specific rate element is used. These are applied on a per-access minute basis or a per call basis. Usage rates are accumulated over a monthly period. Usage rates apply to Switched Access Service as set forth for specific rate elements in 30.6 following.

Usage rates for Tandem Switched Transport are arranged in pricing zones. The pricing zone for each serving wire center is specified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4.

1
(C)
J

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.7 Rate Regulations (Cont'd)

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

(A) Usage Rates (Cont'd)

(C)
1

(D)

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.7 Rate Regulations (Cont'd)

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

(A) Usage Rates (Cont'd)

(C)
1

(D)

J

(B) When a customer orders Automatic Number Identification (ANI) or Charge Number, the ANI/Charge Number rate applies per attempt, as set forth in 30.6.2(B) and an ANI Billing and Collection rate will apply, as set forth in 30.8.3(A) following, in addition to all other rates and charges associated with Feature Group D.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Description and Application of Rates and Charges (Cont'd)

(B) (Cont'd)

Automatic Number Identification (ANI) information relating to a telephone subscriber, where available under any other provision of this tariff, is provided to the customer (ANI recipient) under the following terms and conditions:

- (1) The ANI recipient or its designated billing agent may use or transmit ANI information to third parties for billing and collection, routing, screening, ensuring network performance, and completion of a telephone subscriber's call or transaction, or for performing a service directly related to the telephone subscriber's original call or transaction.
- (2) The ANI recipient may offer to any telephone subscriber with whom the ANI recipient has an established customer relationship, a product or service that is directly related to products or services previously purchased by the telephone subscriber from the ANI recipient.
- (3) The ANI recipient or its designated billing agent is prohibited from utilizing ANI information to establish marketing lists or to conduct outgoing marketing calls, except as permitted by the preceding paragraph, unless the ANI recipient obtains the prior written consent of the telephone subscriber permitting the use of ANI information for such purposes. The foregoing provisions notwithstanding, no ANI recipient or its designated billing agent may utilize ANI information if prohibited elsewhere by law.
- (4) The ANI recipient or its designated billing agent is prohibited from reselling, or otherwise disclosing ANI information to any other third party for any use other than those listed in Paragraph 1, above, unless the ANI recipient obtains the prior written consent of the subscriber permitting such resale or disclosure.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Description and Application of Rates and Charges (Cont'd)

(B) (Cont'd)

- (5) Telephone Corporations must make reasonable efforts to adopt and apply procedures designed to provide reasonable safeguards against the aforementioned abuses of ANI.
- (6) Violation of any of the foregoing terms and conditions by any ANI recipient other than a Telephone Corporation shall result, after a determination through the Commission's complaint process, in suspension of the transmission of ANI by the Telephone Company until such time as the Commission receives written confirmation from the ANI recipient that the violations have ceased or have been corrected. If the Commission determines that there have been three or more separate violations in a 24 month period, delivery of ANI to the offending party shall be terminated under terms and conditions determined by the Commission.

Violation of any of the foregoing terms and conditions by a Telephone Corporation may result in Commission prosecution of penalty and enforcement proceedings pursuant to Sections 24, 25 and 26 of the Public Service Law.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Description and Application of Rates and Charges (Cont'd)(C) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Switched Access Service are: service connection and service rearrangements. In addition, an Access Order charge and an Engineering charge apply for Feature Group D Switched Access Service.

Nonrecurring charges for DS1 or DS3 Entrance Facility, Channel Terminations, and certain Optional Features are arranged in pricing zones. The pricing zone for each serving wire center is specified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4.

(1) Service Connection

Service Connection charges are nonrecurring charges which apply to each Switched Access Service installed. For Switched Access Service ordered on a per line or trunk basis, the charge is applied per line or trunk. For Switched Access Service ordered on a busy hour minutes of capacity basis, the charge is also applied on a per trunk basis but the charge applies only when the capacity ordered requires the installation of an additional trunk(s).

In addition, an Access Order charge and an Engineering charge as set forth in (3) and (4) following, will apply for Feature Group D Switched Access Service.

The Nonrecurring charge for CCSA STP Links is applied per link connection.

Nonrecurring charges also apply for the installation of 900 Access Service. These charges apply on a per LATA basis. A Service Establishment Charge applies to set up 900 Access Service within a LATA. The Service Establishment Charge includes the activation of one NXX code. A separate nonrecurring charge applies for the addition of each additional NXX code in the same LATA coincident with the establishment of service.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Description and Application of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(2) Service Rearrangements

All changes to existing services other than changes involving administrative activities only will be treated as a discontinuance of the existing service and an installation of a new service. The nonrecurring charge described in (1) preceding will apply for this work activity. Moves that change the physical location of the point of termination are described and changed for as set forth in 6.7.7 following.

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

- Change of customer name,
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing date (name, address, or contact name or telephone number),
- Change of agency authorization,
Change of customer circuit identification,
Change of billing account number,

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Description and Application of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(2) Service Rearrangements (Cont'd)

- Change of customer test line number,
- Change of customer or customer's end user contact name of telephone number, and
- Change of jurisdiction
- If, due to network considerations of the Telephone Company, it was impossible to combine Service, no charge shall be applied to combine the trunk groups when it becomes possible.

Other service arrangements will be charged for as follows.

- Subsequent to the initial installation of 900 Access Service, any addition or deletion of a 900 Access Service NXX, will be charged for as set forth following. A nonrecurring charge applies for the first NXX code added or deleted and a separate nonrecurring charge applies for each additional NXX code added or deleted at the same time in the same LATA on the same order. The charges are as set forth in 30.6.5 following.
- If the change involves the conversion of existing Feature Group D services with multifrequency address signaling to Feature Group D with the SS7 signaling option, a rearrangement charge as set forth in 30.6.1(I)(1) following will apply for the first trunk converted, and an additional trunk rearrangement charge as set forth in 30.6.1(I)(2) following, will apply for each additional trunk ordered and converted at the same time.

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.7 Rate Regulations (Cont'd)

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

(C) Nonrecurring Charges (Cont'd)

(2) Service Rearrangements (Cont'd)

- If the change involves a change of point code on Feature Group D with the SS7 signaling option, a rearrangement charge as set forth in 30.6.1(I)(2) will apply on a first and additional basis for all orders placed at the same time, between the same two points and for the same due date.

If the change involves a modification to an existing FGD to include the provision of 64 kbps Clear Channel Capability, the FGD Local Transport Service Connection nonrecurring charge will apply

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Description and Application of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(2) Service Rearrangements (Cont'd)

- If a customer who does not provide operator services for its end users requests a change in its designated operator services traffic arrangement, a service rearrangement charge as set forth in 30.6.1(D) following will apply. A First TOPS office rearrangement charge will apply for the first TOPS office affected by the change, and an Additional TOPS office rearrangement charge will apply for each Additional TOPS office affected if ordered at the same time and for the same date.
- If the change involves a rearrangement of a customer's FGD Access Service from direct routed to tandem routed, no charge shall apply for the customer requested rearrangement as long as the following conditions are met:

Tandem routed access was not available to the end office at the time the end office was converted to an equal access office;
- The customer was providing service in the relevant area prior to the availability of tandem routed access;
- The customer requested the rearrangement of its trunks from direct routed access to tandem routed access within six months of the first availability of tandem routed access in that area; and
- The customer orders, as tandem routed, the equivalent capacity to replace the direct routed trunks.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Description and Application of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(2) Service Rearrangements (Cont'd)

- 800 Data Base Service Rearrangements

Service rearrangements to redirect traffic from direct routed to tandem routed for 800 Data Base Service, where the service is initially available only at the tandem, will not be assessed a nonrecurring charge. In addition, when 800 Data Base Service becomes available at end offices subtending a tandem to which customers have redirected their 800 traffic, customers will be allowed to rearrange their 800 traffic from tandem routed to direct routed at no charge provided the same customer premises or collocated interconnection location is maintained.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Description and Application of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)

- (3) The Access Order Charge for Feature Group D Switched Access Service applies for all FGD services requested at the same time between the same premises or a collocated interconnection location for the same due date. Each subsequent or additional request will be assessed an additional Access Order Charge. In addition, an Installation Charge as set forth in (1) preceding and an Engineering Charge as set forth in (4) following will apply.
- (4) The Engineering Charge for Feature Group D Switched Access Service is applied per 1-24 trunks. Each subsequent or additional request will be assessed an additional Engineering Charge. In addition, an Installation charge and an Access Order Charge as set forth in (1) and (3) preceding will apply.

(D) Application of Rates

Local Switching and certain Local Transport rates will apply to all Feature Group access minutes when the originating and terminating usage is from or to an end office which is or is not equipped with equal access capabilities.

The Telephone Company will provide written notification to all access customers of record within a particular LATA that an end office in that LATA is scheduled to be converted to an equal access end office. This notification will be sent, via certified U.S. Mail, to each customer of record in the LATA where the conversion is scheduled to occur, at least six months in advance of the conversion date.

Feature Group A and B customers will have the choice of converting existing services to equal access (i.e., Feature Group D) at no charge or retaining the existing services.

(D)

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.7 Rate Regulations (Cont'd)

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

(E) Common Channel Signaling Access (CCSA) Rates

The STP Link Termination rate applies on a per month basis. The STP Link Transport rate applies on a recurring monthly basis and a per mile per month basis. The STP Port rate applies on a per month basis.

In the case where the CCSA transport is not provided by the Telephone Company, the STP Link Transport rate and STP Link Termination rate do not apply. However, the STP Port rate will apply. In addition, the appropriate rates as set forth in PSC No. 15--
COMMUNICATIONS, Section 14 or Verizon New York Product Guide Part B, Section
18 apply to all CCSA collocated interconnections.

(C)
(C)
(C)

(F) 800 Data Base Access Service Customer Identification Charge

The 800 Data Base Access Service Customer Identification Charge applies for the identification of the appropriate customer for 800 Data Base Access Service. The charge is assessed to the customer on a per query basis and may include an area of service which may range from a single NPA/NXX to an area consisting of all LATAs and NPAs in the State of New York. The per query rates are set forth in 30.6.4(A) following.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Description and Application of Rates and Charges (Cont'd)(H) Monthly Rates

Monthly rates are flat recurring rates that apply each month or fraction thereof that an Entrance Facility, a Direct Trunked Transport Switched Access Service, a Dedicated Tandem Trunk Port, Dedicated End Office Trunk Port, certain dedicated multiplexing functions or chargeable optional feature is provided. For billing purposes, each month is considered to have 30 days.

Monthly rates for Channel Termination, Channel Mileage, and certain options and features and functions for 1.544 Mbps and 44.736 Mbps High Capacity Services are arranged in pricing zones. The pricing zone for each serving wire center is specified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4.

Monthly rates for DS3 Entrance Facility Standard Channel Terminations apply on a tapered schedule as set forth in Section 30.6 following. The rate to be billed for each channel termination is based on a count of the total eligible Switched and Special Access channel terminations used for interstate rating purposes as described in the Verizon Telephone Companies F.C.C. No. 11, Access Services Tariff.

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ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Description and Application of Rates and Charges (Cont'd)(I) Application of Local Transport Rates

- (1) For Switched Access Service Entrance Facilities, the rate applies on a recurring monthly basis for the capacity of the Entrance Facility (i.e., DS3, DS1, VG) ordered.
- (2) For Direct Trunked Transport, the channel mileage applies on a fixed and per mile monthly basis. When the channel mileage is zero (i.e., the end office switch and the customer's serving wire center are located in the same building), the channel mileage rates do not apply.
- (3) When Direct Trunked Transport is provided to an end office which is a host office, in addition to the appropriate channel mileage monthly rate, the customer will be billed the Host/Remote Transport Termination rate on a per minute of use basis and the Host/Remote Transport Facility rate on a per mile per minute basis for the transport of the call to or from a remote switching system (RSS) or a remote switching module (RSM). The mileage for the Host/Remote Transport Facility rate element will be measured from the host office to the RSS or RSM. The calculation of the mileage is as set forth in 6.7.12(F) following.
- (4) For Tandem Switched Transport, channel mileage applies on a fixed and per mile basis for the dedicated transport between the serving wire center and access tandem. The per mile per minute Local Transport Facility and the per minute Local Transport Termination rates apply for the common transport from the access tandem to the end office. The per minute Tandem Switching and Transport Multiplexing rates apply to all minutes of use switched at the access tandem. The Channel Mileage and Local Transport Facility mileage calculation is as set forth in 6.7.12(H) following. In addition, a Dedicated Tandem Trunk Port rate applies on a monthly basis for every activated Direct Trunked Transport trunk which terminates on the serving wire center side of the access tandem.
- (5) When the Local Transport Facility mileage is zero (i.e., the end office switch and the access tandem are located in the same building), the Local Transport Facility rate does not apply.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Description and Application of Rates and Charges (Cont'd)(I) Application of Local Transport Rates (Cont'd)

- (7) When Tandem Switched Transport is provided to a remote end office, in addition to the rates set forth in (5) preceding for the transport from the tandem to the host office, the customer will be billed the Host/Remote Transport Termination rate per minute of use and the Host/Remote Transport Facility rate per mile per minute for the transport of the call to or from the remote switching system (RSS) or remote switching module (RSM). The mileage for the Host/Remote Transport Facility will be measured from the host office to the RSS or RSM. The calculation of the mileage is as set forth in 6.7.12(F) following.
- (8) For Switched Access Services used in the provision of 800 Data Base Access where the originating end office does not have 888 or 877 SSP capability, and the customer must order Tandem Switched Transport to receive such traffic the Telephone Company will apply a rate adjustment factor to the Tandem Switching and Local Transport Termination minute of use rates and the Local Transport Facility per mile per minute rates, until either the 888 or 877 SSP capability becomes available at the office or until December 31, 1999, whichever comes first, if the following criteria are met:
- SSP capability for 800 Data Base Access service already exists in the end office; and
 - The customer has Direct Trunked Transport facilities in place at the end office.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Description and Application of Rates and Charges (Cont'd)(I) Application of Local Transport Rates (Cont'd)

(8) (Cont'd)

The rate adjustment factor (RAF) will be applied to the tandem switched transport rates in the following manner:

<u>Rate Element</u>	<u>RAF</u>
Tandem Switching	12%
Tandem Transport Termination	42%
Local Transport Facility	71%

The resultant adjusted switched transport rates will then be applied to eligible 888 or 877 minutes on a monthly basis.

- (9) When the Telephone Company receives a bona fide request for proposal from a customer or potential customer, the Telephone Company may develop a responsive competitive bid.

There must be at least one other competitive bid before the Company may provide service pursuant to such a bid. Such competitive alternative may not be provided by the Switched Access Service customer (interexchange carrier) itself.

The Telephone Company may, on a case by case basis in response to competitive requests for proposal quote rates and charges.

An individual billing arrangement price quote will be offered to the customer for acceptance in writing. Such individual case billing arrangements will specify, among other things, the length of service.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Description and Application of Rates and Charges (Cont'd)(I) Toll Free Number Translation Optional Feature (C)

Unless the customer has an active Call Handling and Destination Feature, customers requesting delivery of a translated telephone number will be assessed the Toll Free Number Translation rate on a per query basis. This rate will apply in addition to the 800 Data Base Access Service Customer Identification Charge specified in 6.7.1(F) preceding. The Toll Free Number Translation Optional Feature rates are set forth in 30.6.4(B) following. (C)

(J) 800 Data Base Access Service Call Handling and Destination Feature Rates and Charges

A recurring rate will apply on a per query basis when options of the Call Handling and Destination Feature are used for call routing information. This rate applies in addition to the Customer Identification Charge as set forth in 6.7.1(F) preceding. When a combination of one or more of the options of the Call Handling and Destination Feature is used on the same call, only one such per query rate shall apply. (C)

The Call Handling and Destination Feature recurring rates are set forth in 30.6.4(C) following. The Call Handling and Destination Feature nonrecurring charges are set forth in 30.13.10(D) following.

(K) Tandem Signaling Option

When the Tandem Signaling Option is provided with originating Feature Group D, the usage sensitive rate elements (e.g., Local Switching) will be billed to the customer to whom the Carrier Identification Code is assigned.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.1 Minimum Periods

Switched Access Service is provided for a minimum period of three months.

6.7.3 Switched Access Service for Resale of WATS-Type and WATS Services

When the customer orders combined access as set forth in 3.3(D) preceding, subject to the limitations as set forth in 3.2 preceding, and the Telephone Company receives the information furnished as set forth in 3.4(F) preceding, the following regulations apply.

- (A) As set forth in 3.4(F), (G) and 3.4.1 preceding, the customer shall supply specific documentation in connection with the provision of combined access. Such documentation shall be supplied each month and shall identify the involved resold MTS, MTS-type, interLATA and/or intraLATA WATS, WATS-type services and Telephone Company-provided Private Line Services. The monthly period used to determine the minutes of use per resold service shall be the most recent monthly period for which the customer has received a bill for such resold services. The customer furnished information shall show the bill date for the resold services. The customer shall also specify the number of resold WATS and/or WATS-type services to be associated with each combined access group. If this number is not reported, the Telephone Company will assume that all identified resold WATS and/or WATS-type services are to be associated with the line side combined access group. This information shall be delivered to the Telephone Company, at a location specified by the Telephone Company, no later than 15 days after the bill date shown on the resold service bill. If the required information is not received by the Telephone Company, the previously reported information as described in 3.4(F) and (G) preceding will be used for the next two months. For any subsequent month no allocation or credit will be made until the required documentation is delivered to the Telephone Company by the customer. The rate treatment set forth in (B) following will not apply in these cases.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.3 Switched Access Service for Resale of WATS-Type and WATS Services (Cont'd)(B) Combined Access Groups

- (1) When combined access groups are provided in a LATA, the following regulations apply:
 - (a) Each line side Switched Access Service provided as set forth in 3.7(D)(l)(b), (2)(b) and (3)(b) preceding will be billed at local business exchange service rates as set forth in (2) following.
 - (b) Switched Access Service rates will apply for the line side and trunk side combined access groups as follows.

For line side Switched Access Service provided in a combined access group, the minutes billed will be all the terminating intrastate access minutes and the adjusted originating intrastate access minutes for such combined groups. The adjusted originating minutes will be the originating intrastate access minutes less a prorated portion of the resold originating MTS, MTS-type, WATS and/or WATS-type service minutes of use. The Telephone Company will determine the minutes of use prorate for each combined access group based on the number of lines and/or trunks provided in all combined access groups in the LATA.

For trunk side Switched Access Service provided in a combined access group, the minutes billed will be all the terminating and originating intrastate access minutes for such combined groups.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.3 Switched Access Service for Resale of WATS-Type and WATS Services (Cont'd)(B) Combined Access Groups (Cont'd)

(1) (Cont'd)

(b) (Cont'd)

The rates that apply for the line side Switched Access Service and/or the trunk side Switched Access Service access minutes will be the Switched Access Service rates as set forth in 30.6 following.

- (2) For each Switched Access Service provided as set forth in (1)(a) preceding, local business exchange service rates as set forth in 30.6.3 shall apply. The exchange involved shall be the exchange in which the service is provided.

The number of line side Switched Access Services billed at rates as set forth in 30.6.3 following shall not exceed the number of line side connections provided in line side combined access groups in service in a LATA.

No local measured service minutes are billed for a combined access group because all the terminating access minutes are billed as Switched Access Service access minutes.

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6. SWITCHED ACCESS SERVICE(Cont'd)6.7 Rate Regulations (Cont'd)6.7.3 Switched Access Service for Resale of WATS-Type and WATS Services(Cont'd)(B) Combined Access Groups (Cont'd)

- (3) The adjustments set forth in (1) preceding will be made to the involved customer account no later than either the next bill date, or the one subsequent to that, depending on when the usage data is obtained.
- (4) When resold WATS and/or WATS-type service usage is shown in hours, the number of hours shall be multiplied by 60 to develop the resold WATS and/or WATS-type service minutes of use. If the resold WATS and/or WATS-type service usage is shown in a unit other than hours or minutes, the customer shall provide a factor to convert that unit to minutes.
- (5) The originating intrastate access minutes for Switched Access Service, adjusted as set forth in (1) preceding, or any other section of this tariff, that are billed to a customer in a monthly period shall not be less than zero.

- (C) When combined access is provided, the Telephone Company may request a certified copy of the customer's usage billing. For MTS and WATS service, the usage may be requested from either the customer or the provider of the WATS service. For MTS-type and WATS-type service, the usage will be requested from the customer. The requests for this billing information will relate back no more than 12 months prior to the current billing period.

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6. SWITCHED ACCESS SERVICE (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.4 Minimum Monthly Charge

Switched Access Service is subject to a minimum monthly charge. The minimum charge applies for the total capacity provided.

The minimum monthly charge for the Local Transport and Local Switching rate elements is the sum of charges set forth in 30.6.1 and 30.6.2 following for the measured or assumed usage for the month, adjusted as set forth in 6.7.3(B)(1) preceding.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.6 Change of Feature Group Type

Changes from one type of Feature Group to another will be treated as a discontinuance of one type of service and a start of another. Nonrecurring charges will apply, with two exceptions.

- (1) When a customer upgrades a Feature Group A, non-900 B or C service to a Feature Group D service, the nonrecurring charges will not apply.
- (2) When a FGB for 900 Access Service is upgraded to a FGD service, the nonrecurring charge will not apply. Because FGB for 900 Access Service is no longer available in an end office once the end office is equipped with equal access capabilities (i.e., FGD), such upgrades will be performed by the Telephone Company without the customer's being required to place an order for the change.

For the changes set forth in (1) and (2) preceding, minimum period obligations will not change, i.e., the time elapsed in the existing minimum period obligations will be credited to the minimum period obligations for Feature Group D service. For all other changes from one type of Feature Group to another, new minimum period obligations will be established.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.7 Moves

Move involves a change in the physical location of one of the following:

- The point of termination at the customer's premises
- The customer's premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring charge for the capacity affected. There will be no change in the minimum period requirements.

(B) Moves to a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new service. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

6.7.8 Measuring Access Minutes

Customer traffic to end offices will be measured (i.e., recorded or assumed) by the Telephone Company at end office switches or access tandem switches. Originating and terminating calls will be measured (i.e., recorded or assumed) by the Telephone Company to determine the basis for chargeable minutes. For terminating calls over FGA and FGB, FGC to 800 and FGD, and for originating calls over MTS/WATS-type FGA and FGB and FGD, the measured minutes are the chargeable access minutes. For originating calls over FX/ONAL FGA and FGC, chargeable originating access minutes are derived from recorded minutes in the following manner.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.8 Measuring Access Minutes (Cont'd)

- Step 1: Obtain recorded originating minutes and messages (measured as set forth in (A) and (C) following for FX/ONAL FGA and FGC respectively) from the appropriate recording data.
- Step 2: Obtain the total attempts by dividing the originating measured messages by the completion ratio. Completion ratios (CR) are obtained separately for the major call categories such as DDD, operator, 800, 900, directory assistance and international from a sample study which analyzes the ultimate completion status of the total attempts which receive acknowledgement from the customer. That is, Measured Messages divided by Completion Ratio equals Total Attempts.
- Step 3: Obtain the total non-conversation time additive (NCTA) by multiplying the total attempts (obtained in Step 2) by the NCTA per attempt ratio. The NCTA per attempt ratio is obtained from the sample study identified in Step 2 by measuring the non-conversation time associated with both completed and incompleting attempts. The total NCTA is the time on a completed attempt from customer acknowledgment of receipt of call to called party answer (set up and ringing) plus the time on an incompleting attempt from customer acknowledgment of call until the access tandem or end office receives a disconnect signal (ring - no answer, busy or network blockage). That is, Total Attempts times Non-Conversation Time per Attempt Ratio equals Total NCTA.
- Step 4: Obtain total chargeable originating access minutes by adding the total NCTA (obtained in Step 3) to the recorded originating measured minutes (obtained in Step 1). That is, Measured Minutes plus NCTA equals Chargeable Originating Access Minutes.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.8 Measuring Access Minutes (Cont'd)

Following is an example which illustrates how the chargeable originating access minutes are derived from the measured originating minutes using this formula.

Where: Measured Minutes (M. Min.) = 7,000
 Measured Messages (M. Mes.) = 1,000
 Completion Ratio (CR) = .75
 NCTA per Attempt = .4

$$(1) \text{ Total Attempts} = \frac{1,000 \text{ (M. Mes.)}}{.75 \text{ (CR)}} = 1,333.33$$

$$(2) \text{ Total NCTA} = .4 \text{ (NCTA per Attempt)} \times 1,333.33 = 533.33$$

$$(3) \text{ Total Chargeable Originating Access Minutes} = 7,000 \text{ (M. Min.)} + 533.33 \text{ (NCTA)} = 7,533.33$$

When assumed minutes are used, the assumed minutes are the chargeable access minutes.

FGA access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each line or hunt group, and are then rounded up to the nearest access minute for each line or hunt group. FGB, and FGC and FGD access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

Assumed minutes are used for FGA and FGB services which originate or terminate in end offices not equipped with measurement capabilities.

The assumed average access minutes used for services originating or terminating in end offices where measurement capability is not available are as set forth in 3.7(C).

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.8 Measuring Access Minutes (Cont'd)(A) Feature Group A* Usage Measurement

(C)

For originating calls over FGA, usage measurement begins when the originating FGA entry switch receives an off-hook supervisory signal forwarded from the customer's point of termination. (Where FGA is used for MTS/WATS-type services, this off-hook signal is generally provided by the customer's equipment. Where FGA is used for FX/ONAL services, the off-hook signal is generally forwarded by the customer's equipment when the called party answers.)

The measurement of originating call usage over FGA ends when the originating FGA entry switch receives an on-hook supervisory signal 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 entry switch.

For terminating calls over FGA, usage measurement begins when the terminating FGA entry switch receives an off-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has answered. The measurement of terminating call usage over FGA ends when the terminating FGA entry switch receives an on-hook supervisory signal 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.

(B) Feature Group B Usage Measurement

For non-900 originating calls over FGB, usage measurement begins when the originating FGB entry switch receives answer supervision forwarded from the customer's point of termination, indicating the customer's equipment has answered.

* This service is no longer available in the wire centers listed, and as outlined, in Section 16 of this Tariff.

(N)

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.8 Measuring Access Minutes (Cont'd)(B) Feature Group B Usage Measurement (Cont'd)

The measurement of originating non-900 call usage over FGB ends when the originating FGB entry switch receives 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 entry switch.

For terminating calls over FGB, usage measurement begins when the terminating FGB 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 FGB ends when the terminating FGB 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.

(C) Feature Group C Usage Measurement

For originating calls over FGC, usage measurement begins when the originating FGC entry switch receives answer supervision from the customer's point of termination, indicating the called party has answered.

The measurement of originating call usage over FGC ends when the originating FGC entry switch receives 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 entry switch. .

For terminating calls over FGC to services other than 800, 900 or Directory Assistance, terminating FGC usage is not directly measured at the terminating entry switch, but is imputed from originating usage, excluding usage from calls to 800, 900 or Directory Assistance Services.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.8 Measuring Access Minutes (Cont'd)(C) Feature Group C Usage Measurement (Cont'd)

For terminating calls over FGC to 800 Service, usage measurement begins when the terminating FGC entry switch receives answer supervision from the terminating end user's end office, indicating the terminating 800 Service end user has answered.

The measurement of terminating call usage over FGC to 800 Service ends when the terminating FGC entry switch receives an on-hook supervisory signal from the terminating end user's end office, indicating the terminating 800 Service end user has disconnected, or from the customer's point of termination, whichever is recognized first by the entry switch.

(D) Feature Group D Usage Measurement

For originating calls over FGD, except for FGD with the SS7 signaling option, usage measurement begins when the originating FGD entry switch receives the first wink supervisory signal forwarded from the customer's point of termination.

For originating calls over FGD with the SS7 signaling option, usage measurement for direct trunks begins when the FGD entry switch sends an Initial Address Message. Usage measurement for tandem trunks begins when the FGD entry switch receives an Exit Message.

The measurement of originating call usage over FGD ends when the originating FGD entry switch receives 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 entry switch.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.8 Measuring Access Minutes (Cont'd)(D) Feature Group D Usage Measurement (Cont'd)

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

he measurement of terminating call usage over FGD ends when the terminating 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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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.9 Network Blocking Charge for Feature Group D

The customer will be notified by the Telephone Company to increase its capacity (busy hour minutes of capacity or quantities of trunks) when excessive trunk group blocking occurs on groups carrying Feature Group D traffic and the measured access minutes for that hour exceed the capacity purchased. Excessive trunk group blocking occurs when the blocking thresholds stated below are exceeded. They are predicated on time consistent, hourly measurements over a 30 day period excluding Saturdays, Sundays and national holidays. If the order for additional capacity has not been received by the Telephone Company within 15 days of the notification, the Telephone Company will bill the customer, at the rate set forth in 30.6.1(F) following, for each overflow in excess of the blocking threshold when (1) the average "30 day period" overflow exceeds the threshold level for any particular hour and (2) the "30 day period" measured average originating or two-way usage for the same clock hour exceeds the Access Connection capacity purchased.

<u>Trunks in Service</u>	<u>Blocking Thresholds</u>	
	<u>1 %</u>	<u>1/2%</u>
1-2	.070	.045
3-4	.050	.035
5-6	.040	.025
7 or greater	.030	.020

The 1% blocking threshold is for transmission paths carrying traffic direct (without an alternate route) between an end office and a customer's premises. The 1/2% blocking threshold is for transmission paths carrying first routed traffic between an end office and a customer's premises via an access tandem.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.10 Application of Rates for Feature Group A* Extension Service

(C)

Feature Group A Switched Access Service is available with extensions, i.e., additional terminations of the service at different building(s) in the same or a different LATA. Feature Group A extensions within the LATA are provided and charged for as extension service under the Verizon New York Product Guide or PSC No. 15--COMMUNICATIONS. Feature Group A extensions in different LATAs are provided and charged for as access channels under the Verizon New York Product Guide or P.S.C. No. 15.

6.7.11 Local Information Delivery Services

Calls over Switched Access in the terminating direction to certain community information services will be rated under the applicable rates for Switched Access Service as set forth in 30.6 following. In addition, the charges per call as specified under the Telephone Company's local and/or general exchange service tariffs, e.g., 976 (DIAL-IT) Network Services, will also apply.

* This service is no longer available in the wire centers listed, and as outlined, in Section 16 of this Tariff.

(N)

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.12 Mileage Measurement

The Channel Termination for a DS3 Entrance Facility consists of a fixed and a per 1/4 mile rate. A minimum fixed and one 1/4 mile rate always applies. The mileage used to determine the monthly rate for distance sensitive Channel Terminations is the airline distance measured in increments of 1/4 mile (A fractional 1/4 mile increment being considered as a full 1/4 mile increment), directly between the customer's premises and the serving wire center. The mileage measurement is determined by utilizing exchange maps and mileage tables located in designated Telephone Company business offices for such purposes.

The mileage to be used to determine the Direct Trunked Transport Channel Mileage monthly rate is calculated on the airline distance between the end office switch where the call carried by Local Transport originates or terminates and the customer's serving wire center (when Direct Trunked Transport is ordered to an end office), or between the customer's serving wire center and the access tandem (when Direct Trunked Transport is ordered to a tandem). The mileage to be used to determine the Local Transport Facility monthly rate is calculated on the airline distance between the access tandem and the end office switch where the call carried by Local Transport originates or terminates. Exceptions are set forth in (A) through (I) following and 6.1.3(A) preceding. The V&H coordinates method is used to determine mileage. This method is set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 for Wire Center and Interconnection Information (V & H Coordinates).

The Tandem Switched Local Transport Facility mileage rate is shown in 30.6.1 following in terms of per mile per access minute. To determine the rate to be billed, first compute the mileage using the V & H coordinates method. If the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage. Then, multiply the mileage by the appropriate Local Transport Facility rate. The amount to be billed will be the product of this calculation (i.e., the number of miles multiplied by the per mile rate) multiplied by the number of access minutes.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.12 Mileage Measurement (Cont'd)

The Direct Trunked Transport Channel Mileage rates are shown in 30.6.1 following in terms of fixed and per mile per month. To determine the rate to be billed, first compute the mileage using the V&H coordinates method. If the calculation results in a fraction of a mile, always round up to the next mile before determining the mileage, then multiply the mileage by the appropriate Channel Mileage rate. The amount to be billed shall be the product of this calculation plus the appropriate fixed Channel Mileage rate.

When Hubs are involved, mileage is computed and rates applied separately for each section of the Channel Mileage, i.e., serving wire center of customer premises to a Hub, Hub to end office and/or Hub to Hub.

Mileage measurement for CCSA STP Link Transport will be calculated on an airline basis, using the V&H coordinates method, between serving wire center of the customer's Signaling Point of Interconnection (SPOI) and the Telephone Company STP.

Exceptions to the mileage measurement rules are as follows:

- (A) Except for Feature Group A Switched Access Service for MTS/WATS – type services, Local Transport Facility mileage for access minutes in the originating direction over Feature Group A Switched Access Service will be calculated on an airline basis, using the V&H coordinates method, between the end office switch where the Feature Group A switching dial tone is provided and the customer's serving wire center for the Switched Access Service provided.

Mileage for access minutes in the originating or terminating direction over Feature Group A Switched Access Service for MTS/WATS – type services will not be measured. A non-distance sensitive Local Transport rate, as set forth in 30.6.1(B) following, will apply for originating and terminating access minutes over Feature Group A Switched Access Service for MTS/WATS - type services.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.12 Mileage Measurement (Cont'd)

(B)

(C) When the Alternate Traffic Routing optional feature is provided with Feature Groups B, C or D to provide service from an end office to different customer premises locations or from multiple collocated interconnection locations, Local Transport access minutes will be apportioned between the two transmission routes used to provide this feature. For Feature Groups B and C which is routed via an access tandem, such apportionment will be made using standard Telephone Company traffic engineering methodology, as set forth in Special Report SR-EOP-000191. Issued No. 1, Trunk Traffic Engineering Concepts and Application, and will be based on the last trunk CCS desired for the high usage group, as described in 6.3.1(N) preceding, and relative capacity ordered to the end office, when the feature is provided at an end office switch, or to the subtending end offices when the feature is provided at an access tandem switch. For Feature Group D which is directly routed, the apportionment will be based on the actual measured data which is recorded against the specific trunk group that carried a particular call. This apportionment will serve as the basis for the Local Transport Facility mileage calculation. The customer will be billed based on this apportionment.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.12 Mileage Measurement (Cont'd)

- (D) When terminating Feature Groups B and C Switched Access Service is provided from multiple customer premises or from multiple collocated interconnection locations to an end office not equipped with measurement capabilities, the total Local Transport access minutes for that end office will be apportioned among the trunk groups accessing the end office on the basis of the individual capacity, i.e., trunks or busy hour minutes, ordered for each of those trunk groups. This apportionment will serve as the basis for Local Transport Facility mileage or Channel Mileage calculation. The customer will be billed based on the apportionment.
- (E) When terminating Feature Group C Switched Access Service is provided from multiple customer premises or from multiple collocated interconnection locations to an end office not equipped with measurement capabilities, all mileage will be calculated from the most distant customer serving wire center.
- (F) Where measurement capability does not exist and/or end office specific usage data is not available, Local Transport Facility mileage for access minutes in the terminating direction over Feature Group A Switched Access Service will be calculated on an airline basis, using the V&H coordinates methods, between the entry switch (i.e., dial tone office for FGA) and the customer's serving wire center.
- (G) When Direct Trunked Transport is provided to a host office, in addition to the channel mileage for Direct Trunked Transport which is calculated on an airline basis per mile between the serving wire center and the host office, Host/Remote Transport Facility mileage for access minutes originating from or terminating at a remote switching system or module (RSS or RSM) will be calculated on an airline basis between the host office and the NXX location (i.e., remote office) as shown in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

When common transport is provided to a host office, in addition to the Local Transport Facility mileage which is calculated on an airline basis per mile between the access tandem and the host office, Host/Remote Transport Facility mileage for access minutes originating from or terminating at a remote switching system or module (RSS or RSM) will be calculated on an airline basis between the host office and the NXX location (i.e., remote office) as shown in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.13 Shared Billing Arrangement (Cont'd)

Each customer may order its individual portion of the multiplexed service separately from the Telephone Company. However, the ordering customer must obtain and provide a copy of a signed letter(s) of authorization, as described in 5.2 preceding, to the Telephone Company when placing an order for a Shared Billing Arrangement. The letter of authorization must be signed by both the Host Customer and the Service User and include the Channel Facility Assignment and Billing Account Number of the Host Customer's service.

Each customer will be billed the applicable tariff rates and charges set forth in Section 30. following for its individual service(s). The rates and charges for Multiplexing as set forth in tariff FCC No. 11, Sections 30.6.1(E)(1) and (2), will be the responsibility of the Host Customer. (C)

Each customer shall be responsible for reporting service outages for its portion of the multiplexed service. Out of service adjustments will be handled in accordance with Credit Allowance for Service Interruptions as set forth in Section 2.4.4 preceding. The Maintenance of Service charge applies, as set forth in Section 13.3.1 following, to the customer whose service is reported in trouble.

Under a Shared Billing Arrangement, the Telephone Company may share with the Host Customer record information pertaining to the multiplexed service(s) of the Service User(s). Such disclosure will be at the sole discretion of the Telephone Company as necessary to perform billing reconciliations or other functions required in connection with maintaining separate account records.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.13 Shared Billing Arrangement (Cont'd)

Each Host Customer and Service User entering into a Shared Billing Arrangement is solely responsible to the Telephone Company for charges associated with that customer's portion of the shared multiplexed service. Disconnection of service by the Host Customer does not relieve the Service User of the shared multiplexed service of any obligation to pay access charges associated with the portion of the shared multiplexed service to which that Service User subscribes. Billing for services and facilities will continue until a disconnect request from the Host Customer or Service User has been received by the Telephone Company. The Host Customer of a Shared Billing Arrangement is solely responsible for notifying the connecting Service User(s) participating in the Shared Billing Arrangement in the event of disconnection of the Host Customer's service.

For administrative purposes, one "Arrangement" under the Shared Billing Arrangement option shall be limited to one Host Customer permitting one Service User to connect a specified number of services to one specified multiplexer on the Host Customer's service. A subsequent request by the Service User to increase the number of services connected to the same multiplexer shall not constitute a new or separate "Arrangement".

A Shared Billing Arrangement shall be established between a Host Customer and a Service User upon the completion of the service order for the first service(s) in the Arrangement. A Shared Billing Arrangement shall be deemed cancelled when the last service in the Arrangement belonging to the Service User has been disconnected.

A Processing Charge will apply for each Service User order processed for a Shared Billing Arrangement. The Switched Access Service Shared Billing Arrangement Processing Charge is contained in Section 30.6.7 following.

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ACCESS SERVICE

6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.14 Facility Hubs

A customer has the option of ordering DS1 or DS3 facilities to a facility Hub for channelizing to individual services requiring lower capacity facilities.

All transport provided to or from an Intermediate or Super-Intermediate Hub that is not the serving wire center of the customer designated premises or multiplexing node will be provided as Direct Trunked Transport.

Different locations may be designated as Hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. Locations (wire centers) that provide multiplexing of DS1 or DS3 Services have been designated as Intermediate Hubs or Terminus Hubs (described in 2.6 preceding). When ordering the customer will specify the desired multiplexing Hub(s) selected from the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 which identifies the type(s) of multiplexing functions which are available, the wire centers at which they are available and the wire centers that subtend DS3 to DS1 and DS2 to Voice Grade multiplexing Hubs.

End to end services may be provided on channels of these facilities to a Hub. The transmission performance for the end to end service provided between the customer and the selected end office(s) or tandem(s) will be that of the lower capacity. For example, when a DS1 facility is multiplexed to Voice Grade channels, the transmission performance of the channelized services will be Voice Grade, not DS1.

The Telephone Company will commence billing the monthly rate for the facility to the Hub on the date specified by the customer on the service order. Individual services utilizing these facilities must be installed at a later date. The customer will be billed for a DS1 or DS3 Channel Termination, Channel Mileage (when applicable), and the multiplexer at the time the facility is installed. Individual service rates (by service type) will apply for Channel Mileage for each channelized service. These will be billed to the customer as each individual service is installed.

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6. SWITCHED ACCESS SERVICE (Cont'd)6.7 Rate Regulations (Cont'd)6.7.14 Facility Hubs (Cont'd)

Cascading multiplexing occurs when a DS1 or DS3 facility is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a DS3 facility is de-multiplexed to twenty-eight DS1 channels and then one of the DS1 channels is further de-multiplexed to twenty-four Voice Grade channels.

When cascading multiplexing is performed, whether in the same or a different Hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different Hubbing locations, Channel Mileage rates also apply between Hubs.

6.8 Rates and Charges

Rates and Charges for Switched Access Service are found in Section 30.6 following.