

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs

Switched Access Service is also provided in the form of three unbundled Basic Serving Arrangements (BSAs) - Lineside, Trunkside and Dedicated Network Access Link (DNAL) connections. The provision of Lineside and Trunkside BSAs requires Switched Transport facilities and the appropriate Local Switching functions. The provision of DNAL BSAs requires Channel Mileage facilities and the appropriate Channel Termination functions. In addition, WATS Access Line Service as described in section 7.2.3.1 following may, at the option of the customer, be provided for use with the Lineside BSA and Trunkside BSAs. (S)(Y)

There are also various Switched Transport and Local Switching optional features and Basic Service Elements (BSEs) available with a BSA. Unless specifically stated otherwise, these BSEs and features are available at most Telephone Company end office switches. WATS Access Line Service termination optional features and BSEs are available only in the end office designated as WATS serving offices. (S)(Y)

There are three specific transmission specifications (i.e., Types A, B, and C) that have been identified for the provision of BSAs. 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 section 6.6 following.

Lineside and Trunkside BSAs are arranged for either originating, terminating or two-way calling, based on the customer end office switching capability ordered. Originating calling permits the delivery of calls from Telephone Exchange Service locations to the customer's facilities. Terminating calling permits the delivery of calls from the customer's facilities to Telephone Exchange Service locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously. The Telephone Company will determine the type of calling to be provided unless the customer requests that a different type of directional calling is to be provided. In such cases, the Telephone Company will work cooperatively with the customer to determine the directionality. (C)
(C)

For Telephone Company provided facilities between an access tandem and a TRS Center, calls will be delivered only in the originating direction. For calls originating from a TRS Center routed through an access tandem, access minutes of use will be reported by the TRS provider until the Telephone Company attains the appropriate measurement capabilities.

Following are detailed descriptions of each of the available BSAs. Each BSA is described in terms of its specific physical characteristics and calling patterns, the transmission specifications with which it is provided, the optional features and BSEs available for use with it, and the standard testing capabilities.

The name of the BSA offered and the name of the service as provided are Lineside BSA (identified in Bell Operating Companies ONA Services User Guide, Service Description section, dated July 31, 1991 as Circuit Switched Lineside BSA) and Trunkside BSA (identified in Bell Operating Companies ONA Services User Guide, Service Description section, dated July 31, 1991 as Circuit Switched Trunkside BSA).

(Y) Reissued material scheduled to become effective December 30, 1993.

(This page filed under Transmittal No. 612)

Issued: November 18, 1993

Effective: February 15, 1994

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.1 Lineside BSA

(A) General Description

- (1) Lineside BSA is provided in connection with the Telephone Company electronic and electromechanical end offices. At the option of the customer, Lineside BSA is provided on a single or multiple line group basis and is arranged for originating calling only, terminating calling only, or two-way calling. Lineside BSA provides lineside access to Telephone Company end office switches with an associated seven-digit local telephone number for the customer's use in originating communications (1) to an Interexchange Carrier's interstate service, or (2) to the Telephone Company's facilities when used to provide dial tone service from the Telephone Company's end office switch in a state other than the state of the customer's normal serving end office. (C)

Entrance facilities are required between the serving wire center and an interexchange carrier's point of presence, or to a Telephone Company provided interstate transport capability, and the customer shall provide the connecting facility assignment (CFA) information, as defined in Section 2.6 preceding, using the industry standard Common Language Facility Identification. The CFA must include channel assignment information necessary to connect the Lineside BSA to the interstate network. (C)

For existing Lineside BSA that is installed prior to February 24, 1997, connecting facility assignment information is not required. This information must be provided if any changes or rearrangements are requested for the existing services. (N)

- (2) Lineside BSA provides for a lineside termination at the first point of switching, which shall be selected by the Telephone Company within the requested LATA, unless the customer requests a different location at which Telephone Company facilities and measurement capabilities are available to accommodate such a request.
- (3) The Telephone Company assigns a seven digit telephone number associated with the selected end office to provide access to Lineside BSA in the originating direction. The assigned number will be in the form NXX-XXXX. If the customer requests a specific number that is currently unassigned, the requested number will be assigned to the customer if the Telephone Company can comply with that request with reasonable effort.
- (4) Calls from end users to the seven digit telephone numbers associated with Lineside BSA may be subject to Telephone Company Local and/or General Exchange

(This page filed under Transmittal No. 934)

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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

(N)

6.3.1 Lineside BSA (Cont'd)

(A) General Description (Cont'd)

(4) (Cont'd)

Service tariff charges (including message unit and toll charges, as applicable). The monthly bills rendered to customers for their Lineside BSA service for which section 3, Carrier Common Line Access Service charges apply will include a credit to reflect message unit charges collected from their end users under the Telephone Company's Local and/or General Exchange Service tariffs. The credit will apply for recorded or assumed originating usage, as appropriate, for the Lineside BSA service provided. When the credit is applied on assumed usage, such credit will not exceed the assumed levels of usage set forth in section 6.8.8.

No credit will apply for any terminating Lineside BSA access minutes. The message unit credit for originating Lineside BSA access minutes is set forth in section 6.8.11.

(5) At the option of the customer, Lineside BSA will be provided:

(a) with either ground start or loop start supervisory signaling and

(b) on a single or multiple line group basis.

(6) When Lineside BSA is used in the originating direction, no address signaling is provided by the Telephone Company. If such signaling is required, it must be provided by the customer's end user using inband tone signaling techniques. 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) When used in the terminating direction, Lineside BSA is arranged with dial tone start-dial signaling. At the option of the customer, terminating Lineside BSA may be arranged for dial pulse or dual tone multifrequency address signaling, subject to the availability of equipment at the first point of switching. When Lineside BSA is provided with a

(N)

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.1 Lineside BSA (Cont'd)

(A) General Description (Cont'd)

(7) (Cont'd)

hunt group or uniform call distribution arrangement BSE, all Lineside BSAs will be arranged for the same type of address signaling.

Lineside BSA 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), time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customer's services (by dialing the appropriate digits). Charges for Lineside BSA terminating calls requiring operator assistance or calls to (800) 275-2355 or 911 will only apply where sufficient call details are available. (T)

(8) 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 Network Services, and, (3) calls from a Lineside BSA 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 Lineside BSA calls to Directory Assistance (411 where available and 555-1212), Switched Access Service usage rates will not apply. Instead, Lineside BSA calls to this service are subject to the Directory Assistance and Directory Assistance Service per call rates as set forth in section 9.6(B) following.

(9) When Lineside BSA 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

(This page filed under Transmittal No. 952)

Issued: March 17, 1997

Effective: April 1, 1997

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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.1 Lineside BSA (Cont'd)

(A) General Description (Cont'd)

(9) (Cont'd)

associated with the number dialed has been discontinued.

(10) When a WAL service is provided in conjunction with a Lineside BSA, the customer will be provided with Routing of IntraLATA Calls to the Telephone Company for Use with WATS Access Line Service Option.

(B) Lineside BSA Optional Features and BSEs

(1) Common Switching

- (a) Hunting Service Arrangements (BSE)
- (b) Uniform Call Distribution Arrangement (BSE)
- (c) Non-Hunt Directory Numbers (BSE)
- (d) Call Denial (Optional Feature)
- (e) Service Code Denial (Optional Feature)
- (f) Toll Billing Exception (Optional Feature)
- (g) WATS Access Line Service with the following options:
 - (1) Hunt Group Arrangement (Optional Feature)
 - (2) Uniform Call Distribution Arrangement (Optional Feature)
 - (3) Nonhunting Number for use with Hunt Group Arrangement or Uniform Call Distribution Arrangement (Optional Feature)
 - (4) Code Screening (Optional Feature)
 - (5) Overflow Advance Arrangement (Optional Feature)
- (h) Answer Supervision with a Line Side Interface (BSE)
- (i) Make Busy Arrangement (BSE)
- (j) Three-Way Call Transfer (BSE)
- (k) Messaging Services Interface (BSE)
- (l) Three-Way Calling (BSE)
- (n) Direct Inward Dialing (DID) Service (BSE)
- (o) DID Trunk Queuing (BSE)

(D)

(This page filed under Transmittal No. 830)

Issued: October 27, 1995

Effective: December 11, 1995

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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.1 Lineside BSA (Cont'd)

(B) Lineside BSA Optional Features and BSEs (Cont'd)

(2) Transport Termination

- (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) Two-way operation with dual tone multifrequency address signaling and loop start supervisory signaling.
- (d) Two-way operation with dual tone multifrequency address signaling and ground start supervisory signaling.
- (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.
- (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.
- (i) Originating operation with loop start supervisory signaling.
- (j) Originating operation with ground start supervisory signaling.

(3) Switched Transport

(C)

- (a) Supervisory Signaling (as set forth in 6.1.3(A)(2)(a) preceding).
- (b) Customer Specified Entry Switch Receive Level.

(4) Certain other features which may be available in connection with Lineside BSA are provided under the Telephone Company's General Subscriber Service Tariffs. These are:

- (a) Call Forwarding
- (b) Call Waiting
- (c) Speed Calling
- (d) Remote Call Forwarding

(This page filed under Transmittal No. 594)

Issued: September 1, 1993

Effective: December 1, 1993

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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.1 Lineside BSA (Cont'd)

(B) Lineside BSA Optional Features and BSEs (Cont'd)

(4) (Cont'd)

(e) IntraLATA extensions

(f) Directory listings

(C) Transmission Specifications

Lineside BSA is provided with either Type A 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 9. Type DB Data Transmission Parameters are provided with Lineside BSA to the first point of switching.

(D) Testing Capabilities

Lineside BSA is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) text and milliwatt (102 type) test line. In addition to the tests described in 6.1.6 preceding which are included with the installation of service, additional Cooperative Acceptance Testing and Nonscheduled Testing are available for Lineside BSA as set forth in section 13.3.5 following.

6.3.2 Trunkside BSA

Trunkside BSA is provided in switched access packages. These are differentiated by their technical characteristics, e.g., the manner in which an end user accesses them in originating calls. Three options are offered as Trunkside BSA - 950 Option, Trunkside BSA - MTS/WATS Option and Trunkside BSA-101XXXX Option. The Trunkside - 950 Option is provided (C)
as set forth in 6.4.2.1 following. The Trunkside BSA - MTS/WATS Option is provided as set forth in 6.4.2.2 following. The Trunkside BSA-101XXXX Option is set forth in (C)
6.4.2.3 following.

Trunkside BSAs provide trunk side access to Telephone Company end office switches, either directly or through a Telephone Company designated Switched Access Service tandem switch. The Telephone Company will establish a trunk group (or groups)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

between the customer's premises* and end office or access tandem switches, based on the technical limitations imposed by the type, directionality and quantity of traffic specified by the customer. Different Switched Access Service arrangements may be combined in a single group at the option of the Telephone Company.

6.3.2.1 Trunkside BSA - 950 Option

(A) General Description

Trunkside BSA - 950 Option, 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-Toll Free and non-900 Access Service for the customer's use in originating communications from and terminating communications to an Interexchange Carrier's interstate service, Telephone Company central office or access concentrator where access to Public Data Network services reside, or a customer provided interstate communications capability. The customer must specify the Interexchange Carrier to which the Trunkside BSA - 950 Option is connected or, in the alternative, specify the means by which the access communication is transported to another state. (T)

Trunkside BSA - 950 Option may be directly routed only to appropriately equipped electronic end office switches. Trunkside BSA - 950 Option may be provided via Telephone Company designated electronic access tandem switches to other Telephone Company electronic and electro-mechanical end office switches.

Trunkside BSA - 950 Option switch trunk equipment is provided with (a) wink start start-pulsing signaling and (b) answer and disconnect supervisory signaling. Trunkside BSA - 950 Option is provided with multi-frequency address signaling. With exception of Trunkside BSA - 950 Option provided with the automatic number identification (ANI) or rotary dial station signaling Local Switching optional features.

* The Telephone Company central office or access concentrator where access to Public Data Network (PDN) services reside shall be treated as a customer premises, where Trunkside BSA - 950 Option or FGB is used to access PDN, for purposes of this tariff.

(This page filed under Transmittal No. 849)

Issued: February 1, 1996

Effective: March 1, 1996

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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.1 Trunkside BSA - 950 Option (Cont'd)

(A) General Description (Cont'd)

any other address signaling required by the customer in the originating direction must be provided by the customer's end user using inband tone signaling techniques.

Inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Switched Transport provided. (C)

When all Trunkside BSA - 950 Option service is discontinued at an end office and/or in a LATA, an intercept announcement indicating that the service associated with the number dialed has been discontinued will be provided for a limited period of time.

Trunkside BSA - 950 Option 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 Network Service. Additionally, non-access charges will also be billed for calls from a Trunkside BSA - 950 Option 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

(This page filed under Transmittal No. 594)

Issued: September 1, 1993

Effective: December 1, 1993

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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.1 Trunkside BSA - 950 Option (Cont'd)

(A) General Description (Cont'd)

will not be completed to 950-XXXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service codes (800) 275-2355 and 911, or 101XXXX access codes. Calls will be completed to Directory Assistance (NPA-555-1212 or 555-1212) when Trunkside BSA -950 Option switching is combined with Directory Assistance Switching. The combination of Trunkside BSA - 950 Option Switched Access Service with Directory Assistance Service is provided as set forth in section 9 following. (C)

Trunkside BSA - 950 Option may not be switched, in the terminating direction, to Switched Access Service Lineside BSA, Trunkside BSAs, or Feature Groups. When a provider of MTS and WATS subscribes to both Trunkside BSA-950 Option and Trunkside BSA-101XXXX Option at an equal access end office or to both Trunkside BSA-950 Option and Trunkside BSA-MTS/WATS Option at any end office, all such Trunkside BSA-950 Option, Trunkside BSA-MTS/WATS Option and Trunkside BSA-101XXXX Option usage originating and terminating at those end offices will be subject to the premium Carrier Common Line, Switched Transport, Local Switching - LS2, and Information Subcharge rates set forth in 3.9 and 6.9. When a WAL Service is provided in conjunction with a Trunkside BSA - 950 Option Switched Access Service, the customer will be provided with the Routing of Intrastate Calls to the Telephone Company for Use with WATS Access Line Services Option. (C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.1 Trunkside BSA - 950 Option (Cont'd)

(B) Trunkside BSA - 950 Option Optional Features
and BSEs

(1) Common Switching

- (a) Automatic Number Identification (BSE)
- (b) Up to 7 Digit Outpulsing of Access
Digits to customer (Optional Feature)
- (c) WATS Access Line Service with the
following options:
 - (1) Hunt Group Arrangement (Optional
Feature)
 - (2) Uniform Call Distribution
Arrangement (Optional Feature)
 - (3) Non-hunting number for use with
Hunt Group or Uniform Call
Distribution Arrangements
(Optional Feature)
 - (4) Code Screening (Optional
Feature)
 - (5) Overflow Advance Arrangement
(Optional Feature)
- (d) Alternate Traffic Routing (BSE) (C)(X)

(X) Filed under authority of Special Permission No. 92-93 of the Federal
Communications Commission.

Issued: February 21, 1992

Effective: March 7, 1992

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.1 Trunkside BSA - 950 Option (Cont'd)

(B) Trunkside BSA - 950 Option Optional Features and BSEs (Cont'd)

(2) Transport Termination

(a) Rotary Dial Station Signaling

(3) Switched Transport

(C)

(a) Customer Specification of Switched Transport Termination (C)

(b) Supervisory Signaling (as set forth in 6.1.3(A)(2)(a) preceding)

(c) Customer Specified Entry Switch Receive Level

(C) Transmission Specifications

Trunkside BSA - 950 Option 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 10. Type DB Data Transmission Parameters are provided with Trunkside BSA - 950 Option to the first point of switching.

(D) Testing Capabilities

Trunkside BSA - 950 Option is provided, in the terminating direction where equipment is available, with seven digit access to balance

(This page filed under Transmittal No. 594)

Issued: September 1, 1993

Effective: December 1, 1993

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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.1 Trunkside BSA - 950 Option (Cont'd)

(D) Testing Capabilities (Cont'd)

(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 13.3.4 following.

(C)

6.3.2.2 Trunkside BSA - MTS/WATS Option

(A) General Description

Trunkside BSA - MTS/WATS Option is available only to a customer furnishing interstate MTS/WATS. It is available in all Telephone Company end offices which are not equipped to provide Switched Access Service arrangements. Existing Trunkside BSA - MTS/WATS Option service will be converted to Trunkside BSA-101XXXX Option service when it becomes available in an end office.

No access code is required for Trunkside BSA - MTS/WATS Option 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. When the end office is equipped for International Direct Distance Dialing (IDDD) the form is 01+CC+NN or 01+CC+NN.

Trunkside BSA - MTS/WATS Option switch trunk

(This page filed under Transmittal No. 1120)

Issued: April 1, 1999

Effective: April 16, 1999

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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

(N)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.2 Trunkside BSA - MTS/WATS Option (Cont'd)

(A) General Description (Cont'd)

equipment is provided with answer and disconnect supervisory signaling. Wink start start-pulse signaling is provided in all offices where available. In those offices where wink start start-pulse signaling is not available, delay dial start-pulse signaling will be provided, unless immediate dial pulse signaling is provided, in which case no start-pulsing signaling is provided.

Trunkside BSA - MTS/WATS Option is provided with multifrequency address signaling except in certain electromechanical end office switches where such signaling is not available. In these 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 signaling will be provided by the Telephone Company equipment to the customer premises where the Switched Access Service terminates. Called party number signals will be subject to the ordinary transmission capabilities of the Local Transport provided.

Trunkside BSA - MTS/WATS Option 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 the services can be reached using valid NXX codes. 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. Where measurement capabilities exist, the

(N)

Issued: November 1, 1991

Effective: February 1, 1992

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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.2 Trunkside BSA - MTS/WATS Option (Cont'd)

(A) General Description (Cont'd)

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 Network Service. Additionally, non-access charges will also be billed for calls from a Trunkside BSA - MTS/WATS Option 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+), Directory Assistance (411 and 555-1212), service codes (800) 275-2355 and 911, or 101XXXX access codes. Calls will be completed to Directory Assistance (NPA-555-1212 or 555-1212) when Trunkside BSA - MTS/WATS Option switching is combined with Directory Assistance Switching. The combination of Trunkside BSA - MTS/WATS Option Switched Access Service with Directory Assistance Service is provided as set forth in section 9 following. Trunkside BSA - MTS/WATS Option may not be switched, in the terminating direction, to Switched Access Service.

(C)

(B) Trunkside BSA - MTS/WATS Option Optional Features and BSEs

(1) Common Switching

- (a) Automatic Number Identification (BSE)
- (b) Service Class Routing (Optional Feature)
- (c) Dial Pulse Address Signaling (Optional Feature)
- (d) Revertive Pulse Address Signaling (Optional Feature)
- (e) Immediate Dial Pulse Address Signaling (Optional Feature)
- (f) Alternate Traffic Routing (BSE)
- (g) Panel Call Indicator Address Signaling (Optional Feature)
- (h) Code Screening for use with WATS Access Line Service (Optional Feature)
- (i) Hunt Group Arrangement for Use with

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.2 Trunkside BSA - MTS/WATS Option (Cont'd)

(B) Trunkside BSA - MTS/WATS Option Optional Features and BSEs (Cont'd)

(1) Common Switching (Cont'd)

WATS Access Line Service (Optional Feature)

- (j) Uniform Call Distribution Arrangement for Use with WATS Access Line Service (Optional Feature)
- (k) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Line Service (Optional Feature)
- (l) Overflow Advance Arrangement for Use with WATS Access Line Service (Optional Feature)
- (m) 900 Access Service

(2) Transport Termination

- (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).

(3) Switched Transport

(C)

- (a) Supervisory Signaling (as set forth in section 6.1.3(A)(2)(a) preceding)

(4) WATS Access Line Termination

- (a) E&M Supervisory Signaling

(This page filed under Transmittal No. 594)

Issued: September 1, 1993

Effective: December 1, 1993

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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

(N)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.2 Trunkside BSA - MTS/WATS Option (Cont'd)

(C) Transmission Specifications

Trunkside BSA - MTS/WATS Option is provided with either Type B or Type C Transmission Specifications as follows:

- (1) When routed directly to the end office either Type B or Type C is provided.
- (2) When routed to an access tandem only Type B is provided.
- (3) 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 10, whether routed directly to an end office or to an access tandem.

Type DB Data Transmission Parameters are provided with Trunkside BSA - MTS/WATS Option for the transmission path between the customer's premises 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 and the access tandem and between the access tandem and the end office when routed via an access tandem.

(D) Testing Capabilities

Trunkside BSA - MTS/WATS Option 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 6.1.6 preceding

(N)

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.2 Trunkside BSA - MTS/WATS Option (Cont'd)

(D) Testing Capabilities (Cont'd)

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 13.3.4 following for Trunkside BSA - MTS/WATS Option.

(C)

6.3.2.3 Trunkside BSA-101XXXX Option

(A) General Description

Trunkside BSA-101XXXX Option is available to all customers at Telephone Company designated electronic end office switches, whether routed directly or via Telephone Company designated electronic access tandem switches. Trunkside BSA-101XXXX Option provides trunk side access to end office switches with an associated uniform 101XXXX access code for use in originating and terminating communications.

All Trunkside BSA-101XXXX Options provided to the customer by the Telephone Company will use these uniform access codes.

No access code is required for calls to a customer over a Trunkside BSA-101XXXX Option if the Switched Access Service customer's end user has presubscribed its Telephone Exchange Service to that customer, as set forth in section 4.2 preceding.

When no access code is required, 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. When the end office is equipped

(This page filed under Transmittal No. 1120)

Issued: April 1, 1999

Effective: April 16, 1999

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(C)

(A) General Description (Cont'd)

for International Direct Distance Dialing (IDDD) the form is 01+CC+NN or 011+CC+NN.

Trunkside BSA-101XXXX Option switch trunk equipment is provided with

(C)

- (a) wink start start-pulse signaling and
- (b) answer and disconnect supervisory signaling
- (c) or without signaling when out of band signaling is specified.

Trunkside BSA-101XXXX Option is provided with multifrequency address signaling or out of band signaling. Up to twelve digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signaling will be provided by the Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Called party number signals will be subject to the ordinary transmission capabilities of the Switched Transport provided.

(C)

Trunkside BSA-101XXXX Option 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 customer Trunkside BSA-101XXXX Option services (by dialing the appropriate codes) when such services can be reached using valid NXX codes.

(C)

(C)

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 Network Service.

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(C)

(A) General Description (Cont'd)

Additionally, non-access charges will also be billed for calls from a Trunkside BSA-101XXXX Option 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+), Directory Assistance (411 and 555-1212), service codes (800) 275-2355 and 911, 101XXXX access codes, or to a TRS Center. Calls will be completed to Directory Assistance (NPA-555-1212 or 555-1212) when Trunkside BSA-101XXXX Option switching is combined with Directory Assistance Switching. The combination of Trunkside BSA-101XXXX Option Switched Access Service with Directory Assistance Service is provided as set forth in section 9. following. Trunkside BSA-101XXXX Option may not be switched, in the terminating direction, to Switched Access Service Trunkside BSAs.

(C)

(C)

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(C)

The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where Trunkside BSA-101XXXX Option Switching is provided. When required by technical limitations, a separate trunk group will be established for each type of Trunkside BSA-101XXXX Option switching arrangement provided. Different types of Trunkside BSA-101XXXX Option or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

(C)

(C)

(C)

The access code for Trunkside BSA-101XXXX Option switching is a uniform access code of the form 101XXXX. These uniform access codes will be the assigned access numbers of all Trunkside BSA-101XXXX Option access provided to the customer by the Telephone Company. No access code is required for calls which originate from a WATS Access Line (WAL) Service. No access code is

(C)

(C)

(C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(C)

(A) General Description (Cont'd)

required for calls to a customer over Trunkside BSA-101XXXX Option Switched Access Service if the end user's telephone exchange service, the Pay Telephone Service Provider's Telephone Service, or the customer's Lineside BSA Switched Access Service is arranged for presubscription to that customer, as set forth in 13 following.

(C)

(D)

|

(D)

Calls originating from a WAL Service by the end user's dialing 0+500+NXX, 1+500+NXX, Toll Free Code+NXX+XXXX, 1+Toll Free Code+NXX-XXXX, 900+NXX-XXXX, 0+900+NXX-XXXX, or 1+900+NXX-XXXX will be routed to the Switched Access Service of the 500, Toll Free, or 900 service provider.

Calls originating from a WAL Service by the end user's dialing unassigned NXXs, local operator assistance (0-), service codes (211, (800) 275-2355 and 911), directory assistance (411) and 101XXXX access codes will not be completed.

(C)

When the 101XXXX access code is used, Trunkside BSA-101XXXX Option switching also provides for dialing the digit 0 for access to the customer's operator, 911 for access to the Telephone.

(C)

(C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(C)

(A) General Description (Cont'd)

Company's emergency reporting service, or the end-of-dialing digit (#) for cut through access to the customer's premises.

Trunkside BSA-101XXXX Option switching will be arranged to accept calls from telephone exchange service, Public Telephone Service or Lineside BSA locations without the need for dialing 101XXXX uniform access code. Each telephone exchange service line, Public Telephone Service Line or Lineside BSA may be marked with a presubscription code to identify which 101XXXX code its calls will be directed to for interLATA service. Presubscription codes are applied as set forth in section 13 following.

(C)

(C)

(C)

When a customer has had Trunkside BSA - 950 Option access in an end office and subsequently replaces the Trunkside BSA - 950 Option access with Trunkside BSA-101XXXX Option 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 Trunkside BSA - 950 Option access code to the customer's Trunkside BSA-101XXXX Option access service. The customer must be prepared to handle normally dialed Trunkside BSA-101XXXX Option calls dialed with the Trunkside BSA - 950 Option access code which require the customer to receive additional address signaling from the end user. Such calls will be rated as Trunkside BSA-101XXXX Option.

(C)

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(C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(C)

(A) General Description (Cont'd)

At the option of the customer, Switched 56 Kilobit Service as specified following is available for use with Trunkside BSA-101XXXX Option. Switched 56 Kilobits traffic is ordered as set forth in 5.2 preceding and is delivered to the customer via separate Trunkside BSA-101XXXX Option trunks capable of supporting 56 Kbps digital transmission.

(C)

(C)

Switched 56 Kilobit service is an arrangement whereby customers may receive, or send, data at a speed of 56 Kbps from designated switches over dedicated trunks. The number dialed by the customer's end user shall be a seven or ten digit number in the form of NXX-XXXX, 1+NXX-XXXX, 101XXXX + NXX-XXXX, NPA+NXX-XXXX, 1+NPA+NXX-XXXX, or 101XXXX + NPA+NXX-XXXX, and when the end office is equipped for International Direct Distance Dialing (IDDD), 011+CC+NN.

(C)

(C)

All rates and charges normally applicable to Trunkside BSA-101XXXX Option i.e., non-recurring, monthly recurring, and usage sensitive apply to Switched 56 Kilobit Service. Additionally, a per Switched 56 Kilobit access minute of use charge specified in 6.1.2 (9) preceding and 6.9.12 following, apply to Switched 56 Kilobit Service.

(C)

This option is not available in combination with out of band signaling.

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(C)

(A) General Description (Cont'd)

At the option of the customer, Operator Transfer Service as specified following is available for use with Trunkside BSA-101XXXX Option Operator Transfer Service is ordered as set forth in 5.2 preceding and is provided to the customer via separate Trunkside BSA-101XXXX Option trunks dedicated to Operator Transfer Service traffic.

(C)

(C)

Operator Transfer Service is an arrangement in which Telephone Company operators transfer 0 minus end user dialed calls, i.e., the end user dials 0 with no additional digits, to the customer designated by the end user.

The operator transfer function will be performed in the following manner:

- The operator answers the end user 0 minus dialed call.
- Initially, the Operator will direct the end user to dial the interexchange carrier on a direct basis. If the end user insists that the Operator complete the call, the operator will ask the end user to identify the Operator Services Provider or customer to which they desire to be connected. The operator will then transfer the call to the designated service provider.
- If the end user has no preference, or the identified service provider has not subscribed to Operator Transfer Service, the end user will be asked to select from a list of available service providers.

The list of available Operator Transfer Service customers will be updated monthly. The order in which customers will be read to end users will be initially determined by lottery. For each subsequent monthly update, following the initial order selection, the customer in the first position on the list will be moved to the last position on the list. All other customers on the list will be moved up one position, e.g., 3rd to 2nd, 2nd to 1st, etc. New Operator Transfer Service customers will be placed at the bottom of the list of customers pending the next monthly update.

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(C)

(A) General Description (Cont'd)

0 minus Public Coin calls will be transferred to the end user designated customer. When the call is coin sent-paid, the customer, in order to accept such calls, will be required to order signalling as specified in TR-TSY-000506 and TR-NPL-00258.

The customer may receive inband, multi-wink, or expanded inband coin control signalling, where available, from end offices served by an Operator Services Access Point. Different signalling types cannot be mixed on a single trunk group.

All rates and charges normally applicable to Feature Group D, i.e., nonrecurring, monthly recurring, and usage sensitive, apply to Operator Transfer Service. Additionally, a charge as specified in 6.1.2(10) preceding, and 6.9.13 following, is assessed the customer per 0 minus call transferred.

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(C)

(B) Trunkside BSA-101XXXX Option Optional Features and BSEs

(C)

(1) Common Switching

- (a) Automatic Number Identification (BSE)
- (b) Service Class Routing (Optional Feature)
- (c) Alternate Traffic Routing (BSE)
- (d) International Carrier Option (Optional Feature)
- (e) Code Screening for use with WATS Access Line Service (Optional Feature)
- (f) Hunt Group Arrangement for Use with WATS Access Line Service (Optional Feature)
- (g) Uniform Call Distribution Arrangement for Use with WATS Access Line Service (Optional Feature)
- (h) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Line Service (Optional Feature)
- (i) Overflow Advance Arrangement for Use with WATS Access Line Service (Optional Feature)
- (j) Calling Party Number (Optional Feature) *
- (k) Charge Number (BSE)
- (l) Carrier Selection Parameter (Optional Feature)
- (m) Flexible Automatic Number Identification (BSE)
- (n) 900 Access Service

(2) Transport Termination

- (a) Operator Trunk, Full Feature Arrangement

(3) Switched Transport

- (a) Supervisory Signaling (as set forth in section 6.1.3(A)(2)(a) preceding)
- (b) Out of Band Signaling (as set forth in section 6.1.3(A)(2)(e) preceding)
- (c) Common Channel Signaling Access Service
- (d) Billing Validation Service
- (e) Toll Free Data Base Access Service
- (f) 500 Access Service

* Calling Party Number is not offered in Pennsylvania, and where it is not technically feasible.

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(C)

(4) Line Termination

- (a) Dialed Number Identification Service
- (b) Answer Supervision

(C) Transmission Specifications

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

- (1) When routed directly to the end office either Type B or C is provided.
- (2) When routed to an access tandem or TOPS tandem only Type A is provided.
- (3) Type A is provided on the transmission path from the access of TOPS 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 10.

Type DA Data Transmission Parameters are provided for the transmission path between the customer's premises and the access of TOPS tandem and between the access or TOPS tandem and the end office. Type DA Data Transmission Parameters are provided with Trunkside BSA-101XXXX Option for the transmission path between the customer's premises and the end office when directly routed to the end office.

(C)

(D) Testing Capabilities

Trunkside BSA-101XXXX Option 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

(C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
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6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.3 Trunkside BSA-101XXXX Option (Cont'd)

(D) Testing Capabilities (Cont'd)

line and open circuit test line. In addition to the tests described in 6.1.6 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 13.3.4 following for Trunkside BSA-101XXXX Option.

(C)

(This page filed under Transmittal No. 1120)

Issued: April 1, 1999

Effective: April 16, 1999

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

(D)

(D)

(This page filed under Transmittal No. 560)

Issued: March 1, 1993

Effective: May 1, 1993

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

(D)

(D)

(This page filed under Transmittal No. 560)

Issued: March 1, 1993

Effective: May 1, 1993

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.2 Trunkside BSA (Cont'd)

6.3.2.5 900 Access Service (Cont'd)

If a customer requests 0+900 Access Service, it is the customer's responsibility to ensure that 0+900 calls are provided in conjunction with the customer's credit card billing. Operator assisted calls, such as collect and third party billing, are not provided with 0+900 Access Service.

0+900 Access Service is available only when combined with 1+900 Access Service provided with FGD or Trunkside BSA-101XXXX Option. (C)

6.3.3 Dedicated Network Access Link (DNAL) BSA

(A) General Description

- (1) The Dedicated Network Access Link (DNAL) BSA provides a connection between the customer designated premises and a Telephone Company switch or central office for the transfer of data from the switch or central office to the customer premises.
- (2) The DNAL is primarily used in conjunction with switched access or central office based services requiring a separate link for transmitting signaling or control information. The switched access service determines the requirement for speed, type, and number of DNALs.
- (3) The DNAL can be used in association with the Common Switching BSEs as set forth following.
 - (a) Messaging Services Interface (BSE)

This option is provided as set forth in 6.4.1(AG) following.
 - (b) Make Busy Arrangements (BSE)

This option is provided as set forth in 6.4.1(AH) following.

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

6. Switched Access Service (Cont'd) (N)(X)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.3 Dedicated Network Access Link (DNAL) BSA (Cont'd)

(B) Metallic DNAL

(1) Basic Description

A Metallic DNAL is a unconditioned two-wire channel capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic DNALs are provided between a customer designated premises and a Telephone Company switch or central office. Interoffice metallic DNALs will be limited in length to a total of five route miles per channel.

(2) Technical Specifications packages

<u>Parameter</u>	<u>Package MT-</u>			
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>
DC Resistance				
Between Conductors	X	X	X	
Loop Resistance	X			X
Shunt Capacitance	X			X

The technical specifications are delineated in Technical Reference TR-NPL-000336.

(3) Channel Interfaces

Compatible channel interfaces are set forth in 7.3.5(A) following.

(N)(X)

(X) Filed under authority of Special Permission No. 92-72 of the Federal Communications Commission.

Issued: January 28, 1992

Effective: February 1, 1992

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

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6. Switched Access Service (Cont'd) (N)(X)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.3 Dedicated Network Access Link (DNAL) BSA (Cont'd)

(C) Voice Grade DNAL

(1) Basic Description

A Voice Grade KNAL is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated as analog two-wire or four-wire. Voice Grade DNALs are provided between a customer designated premises and a Telephone Company switch or central office.

(2) Technical Specifications Packages

The technical specifications for Voice Grade DNALs are delineated in TR-000335, Issue 2, under the section defining VG-6 capabilities.

(3) Channel Interfaces

The following channel interfaces for Voice Grade DNALs do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade KNALs require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

Compatible channel interfaces are set forth in 6.1.2(A)(1) preceding.

(N)(X)

(X) Filed under authority of Special Permission No. 92-72 of the Federal Communications Commission.

Issued: January 28, 1992

Effective: February 1, 1992

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

6. Switched Access Service (Cont'd) (N)(X)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.3 Dedicated Network Access Link (DNAL) BSA (Cont'd)

(C) Voice Grade DNAL (Cont'd)

(4) Optional Features and Functions

(a) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade DNALs. C-Type conditioning controls attenuation distortion and envelope delay distortion.

In addition, a customer may require that either the attenuation distortion or the envelope delay distortion, or both, be improved to more stringent specifications than those provided for C-Type conditioning. In these cases the customer has the option of ordering either Improved Attenuation Distortion or Improved Envelope Delay Distortion, or both, as needed.

(1) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are:

(N)(X)

(X) Filed under authority of Special Permission No. 92-72 of the Federal Communications Commission.

Issued: January 28, 1992

Effective: February 1, 1992

Vice President
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6. Switched Access Service (Cont'd) (N)(X)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.3 Dedicated Network Access Link (DNAL) BSA (Cont'd)

(C) Voice Grade DNAL (Cont'd)

(4) Optional Features and Functions (Cont'd)

(a) Conditioning (Cont'd)

(1) C-Type Conditioning (Cont'd)

Attenuation Distortion
(Frequency Response)
Relative to 1004 Hz

Frequency Variation
Range (Hz) (dB)

504-2804 -1.0 to +3.0
304-3804 -2.0 to +6.0

Envelope Delay
Distortion
Variation
Frequency (micro-
Range (Hz) seconds)

1004-2604 ≤ 500
604-2604 ≤ 1500
504-2804 ≤ 3000

(N)(X)

(X) Filed under authority of Special Permission No. 92-72 of the Federal Communications Commission.

Issued: January 28, 1992

Effective: February 1, 1992

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

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6. Switched Access Service (Cont'd) (N)(X)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.3 Dedicated Network Access Link (DNAL) BSA (Cont'd)

(C) Voice Grade DNAL (Cont'd)

(4) Optional Features and Functions (Cont'd)

(a) Conditioning (Cont'd)

(2) Improved Attenuation Distortion

Improved attenuation distortion is provided for additional control of attenuation distortion. The improved attenuation distortion specifications are:

Attenuation Distortion
(Frequency Response)
Relative to 1004 Hz

Frequency Variation
Range (Hz) (dB)

404-2804	-1.0 to +2.0
304-3004	-1.0 to +3.0
304-3204	-2.0 to +6.0

(3) Improved Envelope Delay Distortion

Improved envelope delay distortion is provided for additional control of envelope delay distortion. The improved envelope delay distortion specifications are:

(N)(X)

(X) Filed under authority of Special Permission No. 92-72 of the Federal Communications Commission.

Issued: January 28, 1992

Effective: February 1, 1992

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

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6. Switched Access Service (Cont'd) (N)(X)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.3 Dedicated Network Access Link (DNAL) BSA (Cont'd)

(C) Voice Grade DNAL (Cont'd)

(4) Optional Features and Functions (Cont'd)

(a) Conditioning (Cont'd)

(3) Improved Attenuation Distortion (Cont'd)

Frequency Range (Hz)	Envelope Delay Distortion	
	Variation (micro- seconds)	
1004-2604	≤	100
804-2604	≤	200
604-2604	≤	300
504-2804	≤	600
504-3004	≤	3000

(N)(X)

(X) Filed under authority of Special Permission No. 92-72 of the Federal Communications Commission.

Issued: January 28, 1992

Effective: February 1, 1992

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

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6. Switched Access Service (Cont'd) (N)(X)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.3 Dedicated Network Access Link (DNAL) BSA (Cont'd)

(C) Voice Grade DNAL (Cont'd)

(4) Optional Features and Functions (Cont'd)

(b) Improved Termination and Improved Return Loss

(1) Improved Termination - On Effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each four-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The Improved Termination parameters are delineated in Technical Reference TR-NPL-000335 and associated Revision.

(2) Improved Return Loss - On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control Specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference TR-NPL-000335 and associated Revision. (N)(X)

(X) Filed under authority of Special Permission No. 92-72 of the Federal Communications Commission.

Issued: January 28, 1992

Effective: February 1, 1992

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd) (N)(X)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.3 Dedicated Network Access Link (DNAL) BSA (Cont'd)

(C) Voice Grade DNAL (Cont'd)

(4) Optional Features and Functions (Cont'd)

(c) Data Capability

Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameters for Data Capability are:

(1) Signal to C-Notched Noise Ratio is equal to or greater than 32 dB.

(2) Intermodulation Distortion:

Signal to second order modulation products (R2) is equal to or greater than 38 dB.

Signal to third order modulation products (R3) is equal to or greater than 42 dB. (N)(X)

(X) Filed under authority of Special Permission No. 92-72 of the Federal Communications Commission.

Issued: January 28, 1992

Effective: February 1, 1992

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd) (N)(X)

6.3 Provision and Description of Switched Access BSAs (Cont'd)

6.3.3 Dedicated Network Access Link (DNAL) BSA (Cont'd)

(C) Voice Grade DNAL (Cont'd)

(4) Optional Features and Functions (Cont'd)

(d) Effective Four-Wire Transmission with Two-Wire Interface

When a customer requests that an effective Four-Wire channel be terminated with a Two-Wire interface at the customer designated premises, then this optional feature applies.

Placement of Telephone Company Equipment (Hybrid) is required at the customer's premises to convert the Four-Wire channel to the Two-Wire POT. When this option is ordered, a Four-Wire channel termination charge applies. Per the voice grade technical references, certain voice grade DNALs are always provisioned as Four-Wire and will be billed as a Four-Wire Channel Termination.

(N)(X)

(X) Filed under authority of Special Permission No. 92-72 of the Federal Communications Commission.

Issued: January 28, 1992

Effective: February 1, 1992

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs

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

The following is a list of Bell Atlantic's Open Network Architecture (ONA) Switched Access Basic Service Elements (BSEs) which provides a cross-reference to the generic name contained in Bell Operating Companies, Service Descriptions, ONA Services User Guide, July 31, 1991, from the product name utilized in this tariff.

<u>GENERIC NAME</u>	<u>BELL ATLANTIC PRODUCT NAME</u>	
Answer Supervision With A Line Side Interface	Answer Supervision With A Line Side Interface	
Calling Billing Number Delivery - FG B Protocol - FG D Protocol	Automatic Number Identification	
Carrier Selection On Reverse Charge	Toll Free Access Service	(T)
Make Busy Key	Make Busy Arrangement	
Message Desk (SMDI) Message Waiting Indicator - Activation (audible)	Messaging Services Interface	
Alternate Routing	Alternate Traffic Routing	
Called Directory Number Delivery via DID	Direct Inward Dialing Service	
DID Trunk Queuing	DID Trunk Queuing	

(This page filed under Transmittal No. 849)

Issued: February 1, 1996

Effective: March 1, 1996

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs

<u>GENERIC NAME</u>	<u>BELL ATLANTIC PRODUCT NAME</u>	
Multiline Hunt Group	Hunting Service Arrangement	
Multiline Hunt Group	Hunting Service Arrangement Circular	
Multiline Hunt Group	Hunting Service Arrangement Preferred	
Multiline Hunt Group - Individual Access To Each Port In Hunt Group	Non-Hunt Directory Numbers	
Multiline Hunt Group - Uniform Call Distribution Line Hunting	Uniform Call Distribution	
Multiline Hunt Group - Uniform Call Distribution With Queuing		
Three-Way Call Transfer	Three-Way Call Transfer	
Three-Way Calling	Three-Way Calling	
Flexible ANI Information Digits	Flexible Automatic Number Identification	(N) (N)

(This page filed under Transmittal No. 521)

Issued: September 4, 1992

Effective: October 19, 1992

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs

6.4.1 Common Switching Optional Features and BSEs Where Available

(A) Call Denial on Line or Hunt Group (Optional Feature)

This screening option limits terminating Lineside BSA and Feature Group A calls to completion within the LATA where the Lineside BSA and Feature Group A line resides.

InterLATA and international calls are blocked as well as calls which may potentially terminate outside the LATA. Examples of such calls are:

- Operator-handled calls (0-, 00-);
- Calls to 950 NXX codes;
- Calls to the 900 NPA;
- Calls prefixed with 101XXXX

(C)

This list does not necessarily include all the types of calls which may be blocked in a given jurisdiction.

Terminating Lineside BSA and Feature Group A calls to the Toll Free NPA are not blocked under this option.

When this option is chosen in jurisdictions where intraLATA competition is permitted, the Telephone Company completes all terminating intraLATA calls since the 101XXXX prefix is blocked.

(C)

Blocked 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. This option is available with Lineside BSA and Feature Group A.

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(B) Hunt Group Arrangement (Optional Feature)

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. MTS/WATS-type FX/ONAL FGA services cannot be mixed in the same hunt group arrangement. Additionally, multiple customers providing service to the same end user may not be combined in a single hunt group unless the Switched Transport mileage band for each customer is the same, i.e., the distance between the customer's serving wire center and the dial tone office to which service is ordered.

(C) Service Code Denial on Line or Hunt Group

This option allows for the screening of terminating Lineside BSA and FGA calls to disallow completion of calls to 0-, 555 and N11 (e.g., 411, (800) 275-2355 and 911). This feature is provided where available in all Telephone Company electronic end offices and electromechanical end offices. It is available with Lineside BSA and FGA. (T)

(This page filed under Transmittal No. 952)

Issued: March 17, 1997

Effective: April 1, 1997

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd) (C)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd) (C)

(D) Uniform Call Distribution (Optional Feature and BSE) (C)

When an incoming call to the Directory Number (DN) of the multiline hunt group (MLHG) is received, hunting should begin at the start-hunt terminal and proceed as a circular hunt. (N)

When an idle terminal is found, the call should be completed, and immediately (even before another call attempts to terminate) a new circular hunt should begin for an idle terminal. This hunt should begin at the terminal number after the one that the call was just completed. When an idle terminal is found, the hunt should stop and the idle terminal number should be stored as the start-hunt terminal for the next incoming call to the DN of the MLHG. If no idle terminal is found after a complete circular hunt is made, the stored-hunt DN should be the DN of the last completed call.

If an incoming call is not to the DN of the MLHG but to a DN associated with one of the terminals of the MLHG instead, the start-hunt terminal as defined above for Uniform Call Distribution (UCD) should not be used. Instead, the incoming call should be directed to the terminal associated with the called DN directly. If the called DN terminal is busy, a circular hunt should begin at the called DN terminal and continue until an idle terminal is found. If none is found, the incoming call should be given busy treatment. In either case, the next incoming call to the MLHG DN uses a start-hunt number as determined above, which is unaffected by the call to a terminal's direct DN.

Calls made to a UCD MLHG equipped with the queuing feature will complete immediately if there is an idle terminal in the UCD hunt group. However, if all terminals in the UCD hunt group are busy, the call is placed on queue and waits its turn to be served. (N)

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(D) Uniform Call Distribution (Optional Feature and BSE) (Cont'd)

The call that has been on queue the longest will be the first call served when a line becomes available. The customer determines the maximum number of calls that can be placed on queue. If the incoming call cannot be placed on queue, the calling party receives busy tone. It is available with Lineside BSA and Feature Group A.

(E) Non-Hunt Directory Numbers (Optional Feature and BSE)

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 Lineside BSA and Feature Group A.

(F) Automatic Number Identification (ANI) (Optional Feature and BSE)

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. This option includes provision of originating line screening information for the line from which the call originates. 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 a customer's premises or, where technically feasible, with (2) all individual transmission paths in a trunk group between an end office and an access tandem, and a trunk group between an access tandem and a customer's premises.

(N)

(N)

(This page filed under Transmittal No. 932)

Issued: January 8, 1997

Effective: February 22, 1997

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs where available (Cont'd)

(F) Automatic Number Identification (ANI) (Optional Feature and BSE) (Cont'd)

The seven digit ANI telephone number is available with Trunkside BSA - 950 Option, Trunkside BSA - MTS/WATS Option, Feature Group B and C. With these Feature Groups, technical limitations may exist in Telephone Company switching facilities which requires ANI to be provided only on a directly trunked basis. ANI will be transmitted on all calls except those originating from multiparty lines, coin stations and coinless pay telephones using Trunkside BSA - 950 Option and Feature Group B, or when an ANI failure has occurred.

The ten digit ANI telephone number is only available with Trunkside BSA-101XXXX Option and Feature Group D. (C)
When out of band signaling is specified, the customer may obtain an ANI equivalent by ordering the Charge Number optional feature, as specified in 6.4.1(Y) following. The ten-digit ANI telephone number consists of the Numbering 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 multiparty line or ANI failure, in which case only the NPA will be transmitted (in addition to the information digit described following).

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(F) Automatic Number Identification (ANI) (Optional Feature and BSE) (Cont'd)

With Trunkside BSA - MTS/WATS Option and Feature Group C, ANI is provided from end offices at which Telephone Company recording for end user billing is not provided, or where it is not required, as with Toll Free service. It is not provided from end offices for which the Telephone Company needs to forward ANI to its recording equipment.

Where ANI cannot be provided, e.g., on call from 4-and 9-party services, information digits will be provided to the customer.

The information digits identify: (1) telephone number is the station billing number - no special treatment required, (2) multiparty line - telephone number is a 4- or 8-party line and cannot be identified - number must be obtained via an operator or in some other manner, (3) ANI failure has occurred in the end office switch which prevents identification of calling telephone number - must be obtained by operator or in some other manner, (4) hotel/motel originated call which requires room number identification, (5) coinless station, hospital, inmate, etc. call which requires special screening or handling by the customer, and (6) call is an Automatic Identified Outwarded 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 Trunkside BSA - 950 Option, Trunkside BSA - MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Groups B, C, and D. (C)

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

The ANI feature can be used for billing and collection, routing, screening, and completion of the originating telephone subscriber's call or transaction, or for services directly related to the originating telephone subscriber's call or transaction;

ANI shall not be reused or sold without first (A) notifying the originating telephone subscriber and (B) obtaining the affirmative consent of such subscriber for such reuse or sale; and

ANI or any information derived from ANI shall not be disclosed except as permitted by (1) and (2) above for any purpose other than (i) performing the services or transactions that are the subject of the originating telephone subscriber's call, (ii) ensuring network performance security, and the effectiveness of call delivery, (iii) compiling, using, and disclosing aggregate information, and (iv) complying with applicable law or legal process.

(This page filed under Transmittal No. 1056)

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(G) Up to 7 Digit Outpulsing of Access Digits to Customer (Optional Feature)

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 multifrequency signaling, and transmission of the digits would precede the forwarding of ANI if that feature were provided. It is available with Trunkside BSA - 950 Option and Feature Group B.

(T)(x)
(T)(x)

(H) Revertive Pulse Address Signaling (Optional Feature)

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 Trunkside BSA - MTS/WATS Option and Feature Group C.

(T)(x)
(T)(x)

(x) Material currently in effect is being reinstated. This material filed under authority of Special Permission No. 93-315 of the Federal Communications Commission.

(This page filed under Transmittal No. 568)

Issued: May 3, 1993

Effective: July 1, 1993

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(I) Delay Dial Start-Pulsing Signaling (Optional Feature)

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 Trunkside BSA - MTS/WATS Option and Feature Group C.

(J) Immediate Dial Pulse Address Signaling (Optional Feature)

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 Trunkside BSA - MTS/WATS Option and Feature Group C.

(K) Dial Pulse Address Signaling (Optional Feature)

This 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 Trunkside BSA - MTS/WATS Option and Feature Group C.

(L) Service Class Routing (Optional Feature)

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, multiparty or hotel/motel), service prefix indicator (e.g., 0-, 00-, 0+, 01+ or 011+) or service access code (e.g., Toll Free or 900). It is provided in suitably equipped end office or access tandem switches and is available with Trunkside BSA - MTS/WATS Option, Trunkside BSA-101XXXX (C) Option and Feature Groups C and D.

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Nonchargeable Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSE Where Available
(Cont'd)

(M) Alternate Traffic Routing (Optional Feature and BSE)

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. This option is provided in suitably equipped end office or access tandem switches and is available with Trunkside BSA - 950 Option, Trunkside BSA - MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Groups B, C, or D. This option may not be used in conjunction with the Tandem Access Sectorization Feature specified in Section 6.8.19. (C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Chargeable Common Switching Optional Features and BSEs Where Available (Cont'd)

(P) International Carrier Option (Optional Feature)

This option allows for Trunkside BSA-101XXXX Option and 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 presubscription or 101XXXX dialing). This arrangement requires provision of written verification to the Telephone Company that the customer 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 Trunkside BSA-101XXXX Option and Feature Group D. (C)

(Q) Panel Call Indicator Address Signaling (Optional Feature)

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 Trunkside BSA - MTS/WATS Option and Feature Group C.

(R) Overflow Advance Arrangement for Use with WATS Access Line Service (Optional Feature)

This option, which is provided in association with two or more WATS Access Line Service Groups, provides for the automatic overflow of calls to a WATS Access Line Service Group, when that group has exceeded its call capacity or to another WATS Access Line Service Group with a numeric designation equal to or greater than that of the overflowing WATS Access Line Service Groups. This arrangement does not provide for call overflow from a group with a higher numeric designation to one with a lower one.

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(S) Code Screening for Use with WATS Access Line Service
(Optional Feature)

This option provides the ability to verify that the originating party is dialing a geographically predesignated (bound) area, or an unbound area, called party address. This option is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices in which WATS Access Line Services are provided. It is available with Lineside BSA, Trunkside BSA - 950 Option, Trunkside BSA - MTS/WATS Option, Trunkside BSA-101XXXX Option, and Feature Groups A, B, C and D. (C)

The screening portion of this option which allows for the screening of intraLATA calls is required when intraLATA competition is prohibited by the state jurisdiction in which service is provided. Such screening may be used by the Telephone Company to block intraLATA calls.

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(T) Hunt Group Arrangement for Use with WATS Access Lines Service (Optional Feature)

This option provides the ability to sequentially access one of two or more WATS Access Line Service (e.g., Toll Free Service access lines) in the terminating direction, when the hunting number of the WATS Access Line Service group is forwarded from the customer to the Telephone Company. This feature is provided in all Telephone Company end offices in which WATS Access Line Service is provided. It is available with Lineside BSA, Trunkside BSA - 950 Option, Trunkside BSA - MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Groups A, B, C and D. (C)

(U) Uniform Call Distribution Arrangement for Use with WATS Access Line Service (Optional Feature)

This option provides a type of multiline hunting arrangement which provides for an even distribution of terminating calls among the available WATS Access Line Service in the hunt group. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS or Access Line Service is provided. For WATS Access Lines it is available with Lineside BSA, Trunkside BSA - 950 Option, Trunkside BSA - MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Groups A, B, C and D. (C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(V) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Line Service (Optional Feature)

This option provides an arrangement for an individual WATS Access Line Service within a multiline hunt or uniform call distribution group that provides access to that WATS or Access Line Service within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the non hunting number is dialed. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Line Service is provided. It is available with Lineside BSA, Trunkside BSA, - 950 Option, Trunkside BSA - MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Groups A, B, C and D. (C)

(W) Toll Billing Exception (Optional Feature)

This option provides an arrangement for the screening and blocking of calls where technically feasible, placed through Operator Services System equipment, which terminate on Lineside BSA or Feature Group A on a collect basis, and prevents calls from being billed to a Feature Group A number on a third party basis. It will not block calls made from non-operator services handling, Independent Telephone Company calls that are not operator services handled, or cord board assisted calls. The option is available on Lineside BSA and Feature Group A only.

(X) Calling Party Number (CPN) (Optional Feature)

This option 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. The ten-digit telephone number consists of the NPA plus the seven-digit telephone number, which may or may not be the same as the calling station's charge number. The specific protocol for CPN is contained in Bell Atlantic Supplement Common Channel Signaling (CCS) Network Interface Specification, Issue #1, December 1990, and in Technical Reference TR-TSV-000905. This feature is available only with originating Trunkside BSA-101XXXX Option and Feature Group D when out of band signaling is specified. (C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSES Where Available (Cont'd)

(X) Calling Party Number (CPN) (Optional Feature) (Cont'd)

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

(Y) Charge Number (CN) (Optional Feature and BSE)

This option provides for the automatic transmission of the ten-digit billing number of the calling station number and originating line information. The specific protocol for CN is contained in Bell Atlantic Supplement Common Channel Signaling (CCS) Network Interface Specification, Issue # 1, December 1990, and Technical Reference TR-TSV-000905. This feature is available only with originating Trunkside BSA-101XXXX Option and Feature Group D when out of band signaling is specified. (C)

The Charge Number feature can be used for billing and collection, routing, screening, and completion of the originating telephone subscriber's call or transaction, or for services directly related to the originating telephone subscriber's call or transaction;

Charge Numbers shall not be reused or sold without first (A) notifying the originating telephone subscriber and (B) obtaining the affirmative consent of such subscriber for such reuse or sale; and

Charge Numbers or any information derived from ANI shall not be disclosed except as permitted by (1) and (2) above for any purpose other than (i) performing the services or transactions that are the subject of the originating telephone subscriber's call, (ii) ensuring network performance security, and the effectiveness of call delivery, (iii) compiling, using, and disclosing aggregate information, and (iv) complying with applicable law or legal process.

(Z) Carrier Selection Parameter (CSP)* (Optional Feature)

This option provides for the automatic transmission of a signaling indicator which signifies to the customer whether the call being processed originated from a presubscribed end user of that customer. The specific protocol for CSP is contained in Bell Atlantic Supplement Common Channel Signaling (CCS) Network Interface Specification Issue #1, December, 1990 and Technical Reference TR-TSV-000905. This feature is available only with originating Trunkside BSA-101XXXX Option and Feature Group D when out of band signaling is specified. (C)

* CSP is available only at designated Telephone Company switches.

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AA) Access Transport Parameter (ATP) (Optional Feature)

This option provides for the transmission of CPE compatibility information from the originating switch to the customer's premises and, on terminating access, from the customer's premises to the terminating switch. All of the information is supplied by the calling party. This feature is available only with originating Trunkside BSA-101XXXX Option and Feature Group D when out of band signaling is specified. The specific protocol for ATP is contained in Bell Atlantic Supplement Common Channel Signaling (CCS) Network Interface Specification, Supplement, August 1992, and Technical Reference TR-TSV-000962, Issued September, 1990.

(C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd) (N)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AB) Answer Supervision With a Line Side Interface (BSE)

This option provides an answer supervisory signal to the customer premises for terminating calls to indicate the called location has returned an answer supervisory signal to the Telephone Company end office where the customer's Lineside BSA open end (dial tone end office) is located. This option is only available from appropriately equipped Telephone Company electronic end office switches. It is available with Lineside BSA only.

(AC) Hunting Service Arrangements (BSE)

This feature offers the ability to sequentially access terminals in a hunt group, beginning with the start-hunt terminal until an idle terminal is found or the last terminal number is reached, when the access number of the line group is dialed. If all terminals are busy, a busy tone will be returned to the calling party. It is available with Lineside BSA.

(AD) Hunting Service Arrangements: Preferred (BSE)

This option allows a separate hunting list to be associated with each terminal in a hunt group. When a call is made directly to a busy terminal with a MLHG equipped with preferential hunting, a linear hunt is performed over the special ordered list of preferential hunt terminals. The call will terminate at the first idle terminal in the preferential hunt list. If all of terminals in the preferential hunt are busy, then a

(N)

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AD) Hunting Service Arrangements: Preferred (BSE) (Cont'd)

secondary hunt should be conducted over all of the terminals. The secondary hunt will be in the regular hunt sequence, not the preferential list. This feature is not available with the Uniform Call Distribution and Non-Hunt Numbers features. This feature is available with Lineside BSA.

(AE) Hunting Service Arrangements: Circular (BSE)

This feature offers the ability to sequentially access terminals in a hunt group, with the hunt sequence starting over again at the start-hunt terminal if all terminals are busy. If all terminals are busy in the second pass, a busy tone will be returned to the calling party. This feature is available with Lineside BSA.

(AF) Three-Way Call Transfer (BSE)

This option gives the customer the capability of including another end user on an already established call. After establishing the call, the customer may drop his connection without disconnecting the two end users. While the two end users are connected, usage continues to be recorded and will be charged to the customer. This option is available from appropriately equipped electronic offices. In some switches the customer and originating end user must be served out of the same central office in order for the customer to drop off of the line and keep the two end users connected. This feature is available with Lineside BSA.

(D)

(D)

(This page filed under Transmittal No. 789)

Issued: June 15, 1995

Effective: July 30, 1995

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AG) Messaging Services Interface (BSE)

(C)

Messaging Services Interface provides messaging capability on an intraswitch basis. This option provides for the call status information of a call terminating on Lineside BSA hunting arrangement. This option provides the calling number, called number, the identification of the called multiline hunt group assigned to the customer's end user, and the call reason. In addition, the option provides the ability to activate or deactivate Message Waiting Indication. Message Waiting Indication may be activated as long as the service where Message Waiting indication is to be activated is equipped with the message waiting feature.

The call status information is transmitted to the customer's premises and the signal to activate or deactivate Message Waiting Indication is transmitted from the customer's message desk terminal equipment. The customer shall provide the appropriate customer premises equipment (CPE) to store, display, or print out the transmitted call status information and the equipment to initiate the signal to activate or deactivate Message Waiting Indication. This option is only available from appropriately equipped Telephone Company electronic end office switches. The customer subscribing solely to MSI service shall obtain a Voice Grade Dedicated Network Link as set forth in Section 6.3.3 preceding to each and every Telephone Company central office switch where the capability is desired. The capabilities are available with Lineside BSA with multiline hunt group arrangement.

(C)

Premier Messaging Services Interface (PMSI)

(N)

Premier Messaging Services Interface (PMSI) is an optional enhancement to Messaging Services Interface (BSE). PMSI is similar to Messaging Services Interface (BSE), except that it utilizes the Signalling System 7 (SS7) Network to pass calling and called number information between central offices. With PMSI capability, the customer is not required to obtain a Voice Grade Dedicated Network Link to each Telephone Company central office switch where messaging capability is desired. With PMSI, the customer can provide messaging capability to all end users in a LATA area provided those end users reside in central offices that are interconnected via SS7 and are equipped with the required software. PMSI requires MSI service between the customer's equipment and at least one central office.

(N)

(AH) Make Busy Arrangements (BSE)

This option allows a customer to busy out a group of lines and to reroute incoming traffic from one group of lines to another group of associated lines, if the customer has more than one group of lines. This option requires a compatible Special Access Voice Grade facility as specified in Section 7.2.3 following. This option is available with Lineside BSA.

(This page filed under Transmittal No. 789)

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd) (S)(Y)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AH) Make Busy Arrangements (BSE) (Cont'd)

This option provides the capability to place one or more lines of a Lineside BSA with multiline hunt group arrangement in a busy or overflow condition. Once the capability is activated, subsequent calls to the lines placed in the busy or overflow condition may be directed to a central office tone, central office announcement or when a remote call forwarding feature is ordered, to an alternate service. The capability is activated by a customer provided key at the customer's premises. The activation signal is transmitted to the Telephone Company central office with the use of a Metallic or Voice Grade Dedicated Network Access Link as set forth in section 6.3.3 preceding. The option is available with Lineside BSA.

(S)(Y)
(C)(X)
(C)(X)
(S)(Y)

(AI) Three-Way Calling (BSE)

This option permits a customer who has established a call using a Lineside BSA to establish a call to a third party. The customer may talk privately with the third party or may add the third party to the call to establish a three way conference call. The customer may also disconnect the third party to reestablish the original two party connection. Once the three-way conference call has been established, if the customer disconnects, the call will be terminated. The option is available with Lineside BSA.

(S)(Y)

(X) Filed under authority of Special Permission No. 92-72 of the Federal Communications Commission.

(Y) Reissued material scheduled to become effective February 1, 1992.

Issued: January 28, 1992

Effective: February 1, 1992

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available
(Cont'd)

(AJ) 950 on FGD Optional Feature

Feature Group D (FGD) Access Service, as set forth in 6.2.4 preceding, may be ordered to route calls from a designated 950-XXXX access code to FGD access service. When a customer has FGD access service and does not have Feature Group B access service from a particular end office, 950 on FGD may be ordered to activate a customer's designated 950-XXXX access code in that end office. This will allow the Company to direct those designated 950-XXXX calls dialed by the customer's end users to the customer's FGD access service.

When a customer has both FGB and FGD access service and orders 950 on FGD in a particular end office, the Telephone Company will direct those designated 950-XXXX calls dialed by the customer's end users to the customer's FGD access service at that end office.

In both methods, the customer must be prepared to handle normally dialed FGD calls, as well as calls dialed with the designated 950-XXXX access code which requires the customer to receive additional address signaling. Such calls will be rated as FGD.

950 on FGD will be provided from Telephone Company end offices and tandems, where technically feasible. 950 on FGD is only available to customers utilizing a four digit CIC. The customer must specify the end office where 950 on FGD is to be activated to allow calls from a designated 950-XXXX access code to be routed over FGD access service. The customer is precluded from having originating 950 on FGD and originating FGB in the same end office utilizing the same 950-XXXX CIC.

(C)

(AK) Flexible Automatic Number Identification (BSE)/Optional Feature

Flexible ANI is a network enhancement to the Local Switching Optional Feature offering of Automatic Number Identification (ANI). The enhancement is a software based activation that will provide new and future information indicator (ii) digits activated through switched software program updates.

Flexible Automatic Number Identification enhances the existing Automatic Number Identification (ANI) BSE and Charge Number BSE by allowing Trunkside BSA-101XXXX Option and Feature Group D customers to receive additional information indicator (ii) digits. Flexible Automatic Number Identification will provide additional values for these ii digits over and above the values currently available with the ANI and Charge Number Optional Feature BSEs, and will be used to identify additional call types, i.e., call from WATS lines and private virtual networks. Originating line screening information for the line from which the call originates is also available with this feature.

(C)

(This page filed under Transmittal No. 1056)

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AK) Flexible Automatic Number Identification (BSE)/Optional Feature (Cont'd)

Customers who have the ANI or Charge Number Optional Feature BSEs, but do not order Flexible Automatic Number Identification, will continue to receive the standard ii digits or originating line information. Flexible Automatic Number Identification ii digits will be assigned by the North American Numbering Plan Administrator.

This service is only available with Feature Group D Trunkside BSA-101XXXX Option served by suitably equipped Telephone Company central offices and will be subject to a charge as specified in section 6.9.2(A)(1) following.

Customers subscribing to the Flexible ANI Optional Feature or BSE will receive all currently available Automatic Number Identification digits within the Telephone Company Central Office. As the technology becomes available, central offices will be upgraded to provide additional digits for all users.

The incremental cost to implement Flexible ANI payphone coding digits will be charged to all Payphone Service Providers on a monthly basis, per line, as set forth in 6.9.2(A)(1) following, to be recovered over 24 months commencing November 1, 1998 and ending October 31, 2000.

A nonrecurring charge will apply as set forth in section 6.9.2(A) following, except when this option is used to identify calls originating from payphone access service lines for per-call compensation.

(AL) Direct Inward Dialing (DID) Service (BSE)

This option permits the central office switch to deliver all or part of the called telephone number to the customer premises at the time the call is established. When number translations have occurred, e.g., Toll Free calls, the number delivered is not the called number, but is the translated number. This option is only available in the originating direction at Telephone Company designated end office switches. This option is arranged for originating calling only and is only available on one-way originating trunks.

Certain material formerly appearing on this page now appears on Page 189.10

(This page filed under Transmittal No. 1061)

Issued: July 1, 1998

Effective: July 16, 1998

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AL) Direct Inward Dialing (DID) Service (BSE) (Cont'd)

This option provides a trunk side termination with line treatment at the first point of switching. This option can be provided with Dial Pulse (DP) address signaling. Dual Tone Multifrequency (DTMF) address signaling is available at the option of the customer when the arrangement is provided at suitably equipped end office switches.

The DP or DTMF address signaling delivers the called telephone number only and no other address signaling is provided by the Telephone Company. Additional address signaling, 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 Switched Transport provided.

A seven digit local telephone number assigned by the Telephone Company is provided for access to this option in the originating direction. The seven digit local telephone number will be associated with the selected end office switch and is in the form of NXX-XXXX. A maximum of forty telephone numbers will be provisioned per trunk. Subsequent requests for numbers, up to the maximum of 40 telephone numbers per trunk, added after the establishment of DID Service will be subject to the charge as specified in section 6.8.1(C)(2) following, per request.

The customer has no property right to the telephone number or any other call number designation associated with DID Service furnished by the Telephone Company, and no right to the continuance of service through any particular central office. The Telephone Company reserves the right to change such numbers, or the central office designation associated with such numbers, or both, assigned to the customer, whenever the Telephone Company deems it necessary to do so in the conduct of its business.

If the customer requests a specific seven digit telephone number(s) that is not currently assigned, and the Telephone Company can, with reasonable effort, comply with that request, the requested number(s) will be assigned to the customer.

Certain material appearing on this page formerly appeared on Page 189.9

(This page filed under Transmittal No. 1061)

Issued: July 1, 1998

Effective: July 16, 1998

Vice President
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(M)

(M)

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AL) Direct Inward Dialing (DID) Service (BSE) (Cont'd) (T)

The number of digits forwarded by the central office switch is determined at the time the service is ordered. Up to seven-digit outpulsing of the called telephone number is provided to the customer's premises.

Due to the absence of central office switch measurement capabilities, assumed minutes of use are applied for Lineside BSAs used in conjunction with the Direct Inward Dialing Service BSE. The monthly originating assumed minutes of use that will be applied per trunk is 2,537.

Terminating service is not provided. Other Lineside BSA features or BSEs, except DID Trunk Queuing BSE, are not available in conjunction with this BSE. This option is available with Lineside BSA only.

(AM) DID Trunk Queuing (BSE) (T)

This option provides queuing for Direct Inward Dialing Service. This feature permits calls to be completed immediately if the Direct Inward Dialing Service has an idle terminal, but when all terminals associated with the Direct Inward Dialing Service are busy, to place the call in a queue to wait its turn to be served. While the call is in the queue, an audible ringing tone is provided. This option is only available from LAESS Telephone Company end office switches. It is only available with Lineside BSA with the Direct Inward Dialing Service BSE.

(This page filed under Transmittal No. 521)

Issued: September 4, 1992

Effective: October 19, 1992

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AN) 900 Access Service (Optional Feature)

Originating 900 Access Service is a trunk side switched service that is available to the customer, at their option, via 900 Access Service trunks or trunk groups or in conjunction with Trunkside BSA - MTS/WATS Option, Trunkside BSA-101XXXX Option, Feature Group C, or Feature Group D. 900 Access Service traffic provided in conjunction with Trunkside BSA - MTS/WATS Option, Trunkside BSA-101XXXX Option, FGC, or FGD, is delivered on the same trunk group as non-900 Access Service traffic. (C)

When a 900+NXX+XXXX call is originated by an end user, the Telephone Company will perform six digit screening of the dialed 900 NXX digits to identify the designated 900 customer. The call is routed based on the six digit screening function. If the call originates from an end office not equipped to perform the six digit screening function, the call will be routed to a switch with such capability. (C)

The manner in which 900 Access Service is provided depends on whether the end office from which the call originates has equal access capability and/or the six digit screening capability. Additionally, provision of 900 Access Service is subject to the criteria specified in 6.6.2 following. In equal access end offices with six digit screening capability, served either on a direct or tandem basis, 900 Access Service will be provided via Trunkside BSA-101XXXX Option or Feature Group D trunks and will utilize exchange access signaling. (C)

In equal access end offices lacking the six digit screening capability, the call will be delivered utilizing conventional signaling, via an access tandem, to the customer over 900 Access Service or Trunkside BSA-101XXXX Option or Feature Group D trunks, at the customer's option. Provided the customer has the option of receiving both (C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AN) 900 Access Service (Optional Feature) (Cont'd)

conventional and exchange access signaling over Trunkside BSA-101XXXX Option and Feature Group D trunks. (C)

For other than Trunkside BSA - MTS/WATS Option and FGC, 900 Access Service is provided from non-equal access end offices utilizing conventional signaling, via an equal access tandem, over 900 Access Service trunks or Trunkside BSA-101XXXX Option or Feature Group D trunks, at the customer's option. For Trunkside BSA - MTS/WATS Option and FGC, 900 Access Service can be provided through an existing trunk group or separate Trunkside BSA - MTS/WATS Option or FGC trunk group which handles 900 Access Service. 900 Access Service can be provided from both equal access and non-equal access end offices via a Trunkside BSA-101XXXX Option or Feature Group D trunk group from an access tandem to the customer's premises if the customer can accept, on that trunk group, both exchange access and conventional signaling. (C)

Premium Trunkside BSA-101XXXX Option and Feature Group D rates and charges apply to 900 Access Service calls originated from end offices with equal access capability. Non-premium transitional usage rates apply to 900 Access Service calls originated from end offices lacking equal access capability, except for Trunkside BSA - MTS/WATS Option and Feature Group C customers in which case premium Trunkside BSA - MTS/WATS Option and Feature Group C rates apply. Additionally, nonrecurring charges as specified in 6.1.2(B)(8) preceding and 6.9.11 following also apply. (C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AN) 900 Access Service (Optional Feature) (Cont'd)

The following 1+900 Access Service calls will be blocked by the Telephone Company:

- calls dialed with a 101XXXX access code, (C)
- calls from Inmate Service,
- calls originated from coin telephones, and
- calls originated from hotels and motels without call rating systems.

The following 0+900 Access Service calls will be blocked by the Telephone Company:

- calls dialed with a 101XXXX access code, (C)
- calls from Inmate Service,
- calls utilizing the Telephone Company's calling card, and
- calls originated to a customer that has not subscribed to 0+900 Access Service.

If a customer requests 0+900 Access Service, it is the customer's responsibility to ensure that 0+900 calls are provided in conjunction with the customer's credit card billing. Operator assisted calls, such as collect and third party billing, are not provided with 0+900 Access Service.

0+900 Access Service is available only when combined with 1+900 Access Service provided with FGD or Trunkside BSA-101XXXX Option. (C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AN) 900 Access Service (Optional Feature) (Cont'd)

Transmission Specifications

900 Access Service trunk groups are provided with either Type B or Type C Transmission Specifications as follows:

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

Telephone Company switch and customer premises interfaces and design blocking criteria for Trunkside BSA - MTS/WATS Option and Feature Group C apply to 900 Access Service.

(T)(x)

Network Controls

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 6.6.1. In order to ensure deployment of adequate protective controls, the customer must provide notice of 900 mass calling events to the Telephone Company's Network Management Center at least forty-eight (48) hours prior to the event. The Telephone Company will work cooperatively with the customer to determine the appropriate type, level and duration of controls.

Material now appearing on this page formerly appeared on Page 179.7.

(x) Material currently in effect is being reinstated. This material filed under authority of Special Permission No. 93-315 of the Federal Communications Commission.

(This page filed under Transmittal No. 568)

Issued: May 3, 1993

Effective: July 1, 1993

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AO) Switched Access Signalling Service (SASS)

Switched Access Signalling Service (SASS) is a service available to Tandem Switching Providers (TSPs) that provides the transmission of the Carrier Identification Code (CIC) and Trunk Identification (OZZ) code with Multifrequency (MF) signalling or the Transit Network Selection (TNS) parameter with Signalling System 7 (SS7) signalling. SASS is available only with FGD calls originating from Telephone Company end offices. No traffic, except the Toll Free and/or 500 exceptions noted below, will be directed to the TSP's tandem facility from Bell Atlantic's access tandem. SASS is not available with Toll Free/500 Service Access Codes where query functionality does not exist. In these instances, if the TSP requests SASS for Toll Free/500 Service Access Codes, the TSP will be required to order trunks at the hubbing office where the Toll Free/500 query functionality resides. (T)

Calls originating from Bell Atlantic's end offices will be routed over dedicated one-way direct-trunked transport to the TSP's Point of Termination. The customer must specify the type of signalling desired: Multifrequency (MF) or Signalling System 7 (SS7). The CIC and OZZ (for MF) or the TNS parameter (for SS7) signalling data included in the call data stream sent to the TSP's tandem will be identical to the CIC and OZZ (for MF) or the TNS parameter (for SS7) signalling data sent to the Telephone Company's access tandem. The signalling data elements will be sent to the TSP on direct-routed traffic. (T)

Separate originating trunks are required from each end office. The customer must comply with all technical requirements specified in Bellcore technical publications GR-334-CORE, Issue 1, released July 1994; GR-394-CORE, Issue 1, released February 1994; FR-NWT-000064, Issue 1, released February, 1993; and GR-1083-CORE, Issue 1, released January, 1994. (T)

Bell Atlantic and the TSP must work cooperatively to ensure no duplication of trunk group numbers exist on TSP facilities to IXCs and Bell Atlantic facilities to IXCs. This will permit Bell Atlantic to accurately identify tandem-routed traffic from Bell Atlantic end offices to the TSP. (T)

(This page filed under Transmittal No. 849)

Issued: February 1, 1996

Effective: March 1, 1996

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.1 Common Switching Optional Features and BSEs Where Available (Cont'd)

(AO) Switched Access Signalling Service (SASS) (Cont'd) (S)

Traffic may overflow from the TSP's facilities to Bell Atlantic's facilities and from the IXC's direct-trunked transport facilities to the TSP's facilities.

All overflowing traffic will originate in the end office. In the originating direction, an IXC served by a TSP must have an established presence in Bell Atlantic's access tandem or have Bell Atlantic direct trunks in order for Bell Atlantic to accept its overflow traffic. In addition, no overflowing traffic will be directed to the TSP's tandem facility from Bell Atlantic's access tandem.

If a Tandem Switching Provider (TSP) elects to discontinue the Switched Access Signalling Service option from end offices after the implementation of SASS, the TSP must contact, in writing, all IXCs who have selected the TSP as their tandem or facility provider to route and deliver FGD access calls to inform them that the service is being discontinued and that the IXCs should select a new tandem-transport provider. The TSP must provide written notification to Bell Atlantic that this activity has taken place.

The TSP must have separate trunks to Bell Atlantic's tandem or end office if the TSP chooses to provide Terminating FGD Traffic.

If a TSP is designated as the customer of record for terminating traffic, no billing tapes are required. However, TSPs must provide terminating usage recording information to Bell Atlantic if the TSP's IXC customers are designated as the customers of record for billing purposes. The TSP must provide daily transmission of the Automatic Message Accounting ("AMA") recording in the standard exchange message record format for all terminating usage that will be billed directly to their IXC customers. Bell Atlantic will work cooperatively with the TSP to establish guidelines for resolving recording discrepancies between the AMA records for TSP facilities and Bell Atlantic trunks. To ensure consistency between the AMA records of Bell Atlantic and the TSP, the TSP must adhere to Bell Atlantic's FGD usage measurement guidelines set forth in Section 6.8.8(D) following.

(X)

A TSP ordering service on behalf of an IXC must provide the Telephone Company a Letter of Authorization (LOA) from the IXC indicating that the customer has agreed to allow the TSP to order from Bell Atlantic on their behalf. If the IXC wishes to move their traffic to a TSP's access tandem, the TSP must provide the Telephone Company with a written Letter of Authorization.

(S)(X)

(S) Reissued material scheduled to become effective January 24, 1995.

(X) Filed under authority of Special Permission No. 95-45 of the Federal Communications Commission.

(This page filed under Transmittal No. 733)

Issued: January 17, 1995

Effective: January 24, 1995

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.2 Transport Termination Optional Features

(A) Carrier Identification Parameter (CIP)

(Z)

Carrier Identification Parameter (CIP) is an optional feature that transmits Carrier Identification Code (CIC) information to customers on originating switched access. CIP is available from Telephone Company selected end office and tandem switches in connection with originating Trunkside BSA 101XXXX Option and FGD when out of band signaling is specified. When CIP is provided, the switch will transmit the 4 digit CIC of the presubscribed line or the CIC selected when the end user places a call using 101XXXX dialing. The specific protocol for CIP is contained in Bellcore Document GR-905-CORE, Issue 1, March 1995. The interval for the customer's CIP order will be negotiated by the Telephone Company in cooperation with the customer.

(This page filed under Transmittal No. 1249)

Issued: February 9, 2000

Effective : February 24, 2000

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.2 Transport Termination Optional Features (Cont'd) (Z)

(B) Rotary Dial Station Signaling (Optional Feature) (Z)

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 Trunkside BSA - 950 Option and Feature Group B, only on a direct trunked basis.

(C) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin (Optional Feature) (Z)

This option may be ordered to provide coin, non-coin, or combined coin and non-coin operation. It is available with Trunkside BSA - MTS/WATS Option, Trunkside BSA-101XXXX Option, and Feature Group C and D 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.

(This page filed under Transmittal No. 1249)

Issued: February 9, 2000

Effective: February 24, 2000

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.2 Transport Termination Optional Features (Cont'd)

(C) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin (Optional Feature) (Cont'd)

(Z)

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.

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-, 00-, 1+, 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.

(This page filed under Transmittal No. 1249)

Issued: February 9, 2000

Effective: February 24, 2000

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.2 Transport Termination Optional Features (Cont'd)

(C) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin (Optional Feature) (Cont'd)

(Z)

Non-Coin: (Cont'd)

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 coinless public stations, dormitory or inmate stations, or other screening arrangements agreed to between the customer and the Telephone Company.

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 ANI 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 card boards. When so equipped, the ANI 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 coinless public stations, dormitory or inmate stations, or other screening arrangements agreed to between the customer and the Telephone Company.

(This page filed under Transmittal No. 1249)

Issued: February 9, 2000

Effective: February 24, 2000

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.2 Transport Termination Optional Features (Cont'd)

(D) Operator Trunk - Full Feature (Optional Feature)

(Z)

This option provides the initial coin return control function to the customer's operator. It is available with Trunkside BSA-101XXXX Option and Feature Group D and is provided as a trunk type for Transport Termination.

This option is not available in combination with out of band signaling.

(This page filed under Transmittal No. 1249)

Issued: February 9, 2000

Effective: February 24, 2000

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.3 Switched Transport Optional Features

(A) Common Channel Signaling Access Service (Optional Feature)

Common Channel Signaling Access Service (CCSAS) allows the customer to exchange signaling information for Trunkside BSA-101XXXX and FGD call set-up or Billing Validation Service over a communications path which is separate from the message path. This option is provided with Trunkside BSA-101XXXX Option and FGD with out of band signaling, and Billing Validation Service. This service includes a dedicated 56 kbps out of band signaling connection between the customer's SPOI and the Telephone Company's STP and an STP port at the Telephone Company's STP. (C)

CCSAS is provisioned for two-way transmission of out of band signaling information. (C)

Each CCSA Signaling Connection provides for two-way digital transmission at a speed of 56 kbps. The connection to the Telephone Company STP pair can be made from either the customer's Signaling Point (SP) which requires a minimum of two 56 kbps circuits or from the customer's STP pair which requires a minimum of four 56 kbps circuits. 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.

Customers ordering CCSAS are subject to the requirements specified in 2.3.9.1, 2.3.10(B)(9) and 2.3.10(9) preceding.

When CCSAS is ordered, network compatibility and other operational tests will be performed cooperatively by the Telephone Company and the customer at locations, dates, and times as specified by the Telephone Company in consultation with the customer. These tests are as specified in Technical Reference TR-TSV-000905, Supplement No. 1, Issued July 1991. When 64CCC and/or ATP is ordered, the SS7 interfaces as specified in Technical Reference TR-TSV-000962, Issued September, 1990, will also be tested. Successful completion of the appropriate tests is necessary to receive CCSAS. To protect the security of the network, certain of the information provided, i.e., point codes, by the Telephone Company to the customer will be subject to a non-disclosure agreement.

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.3 Switched Transport Optional Features (Cont'd)

(Z)

(A) Common Channel Signaling Access Service (Optional Feature) (Cont'd)

At the customer's request, CCSAS will be modified to accept SS7 signaling messages and protocol specified in TR-TSV-00962, Issued September 1990 when Trunkside BSA-101XXXX Option and FGD with out of band signaling is provided in accordance with 6.1.2(A)(6)(e) and successful completion of testing in accordance with TR-TSV-000962 is required.

CCSAS is subject to the rates and charges as specified in 6.8.1(C)(2), 6.9.1(G) 6.9.1(L), and 6.9.2(A) following. A monthly recurring distance sensitive STP Mileage charge as specified in 6.9.1(L) following will be assessed on a per dedicated 56 kbps out of band signaling connection basis to transport signaling information between the customer's SPOI and the Telephone Company's STP. A monthly recurring STP Port charge as specified in 6.9.2(A) following, will be assessed on a per port basis for the customer's dedicated port at the Telephone Company's STP. A nonrecurring installation charge as specified in 6.9.1(G) following will be assessed per 56 kbps dedicated out of band signaling connection. Information concerning incidental interLATA service is set forth in section 20 following.

(This page filed under Transmittal No. 1249)

Issued: February 9, 2000

Effective: February 24, 2000

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.3 Switched Transport Optional Features (Cont'd)

(B) Billing Validation Service (Optional Feature)

Billing Validation Service (BVS) provides the customer the ability to query the billing validation data in the Telephone Company's LIDB SCP containing Telephone Company calling card numbers, Telephone Company numbers with collect or bill to third party billing restrictions and public and semi-public telephone numbers. Based upon the received query information the LIDB will respond with a SS7 formatted confirmation of validity or denial for the requested billing option. Access to the Telephone Company's LIDB provides customers with potential toll fraud detection by validating calling card and collect or third party billing restrictions and performing public telephone checks.

LIDB queries are transported, via CCSAS, from a customer's Signaling Point of Interface (SPOI) to the Telephone Company Signal Transfer Point (STP) located in the LATA where the LIDB Signaling Control Point (SCP) is located.

BVS is designed to transport LIDB queries in an out of band format that is in accordance with the technical and performance requirements as defined in Bellcore Technical reference TR-TSV-000954, Common Channel Signaling (CCS) Network Interface Specification Supporting Alternate Billing Services (ABS), Issue 1, September 1989.

BVS requires the establishment of a signaling connection between the customer's SPOI and the Telephone Company's STP. Customers must establish out of band signaling connections, as specified in 6.1.2(A)(2)(e) preceding, between its SPOI and the Telephone Company STP in the LATA where the LIDB SCP is located. Should a customer subscribe to both FGD with out of band signaling and BVS in the same LATA where the LIDB SCP is located, signaling for both services must travel over the same out of band signaling connection. The technical interface requirements as defined in Bellcore Technical Reference TR-TSV-000905, Issued July 1989, and in Bell Atlantic Supplement Common Channel Signaling (CCS) Network Interface Specification, Issue 1, December 1990, apply to out of band signaling connections used for BVS. (T)

Customers ordering BVS are subject to the requirements specified in 2.3.9, 2.3.10(A)(4) and 2.3.10(A)(8).

(This page filed under Transmittal No. 766)

Issued: April 7, 1995

Effective: May 22, 1995

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.3 Switched Transport Optional Features (Cont'd)

(C)

(B) Billing Validation Service (Optional Feature) (Cont'd)

The Telephone Company's LIDB will contain a record for every working line number and Billed Number Group served by the Telephone Company. Other exchange carriers who may store their data in the Telephone Company LIDB are requested to provide this data as well.

The Telephone Company will update the LIDB information; e.g., add, delete, and modify customer accounts as customers move, become delinquent on their account, or order new service, on a daily basis. The updates do not interrupt normal processing of queries.

The Telephone Company has procedures in place to deactivate billing validation data in the event that it is being used fraudulently. Calling cards identified or suspected of being fraudulently used will be updated 7 days a week, 24 hours a day.

The Telephone Company has established a regional Fraud Center operating 24 hours a day, 7 days a week, to monitor LIDB query thresholds, analyze and investigate potential fraudulent calling, receive interexchange carrier fraud alerts, and act as a single point of contact for LIDB accessors regarding suspected fraud activity. The Center has the ability to immediately deactivate billing validation data in the event it is being used fraudulently.

End user information, pertinent to the investigation, may be shared with LIDB Validation Service customers when validation queries for the specific customer reaches the Telephone Company established fraud threshold level. This fraud threshold level will be applied uniformly to most customers, however, higher threshold levels may be established for certain customers, upon their request (i.e., customers having excessive call volumes resulting in excessive queries to LIDB).

(This page filed under Transmittal No. 594)

Issued: September 1, 1993

Effective: December 1, 1993

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs
(Cont'd)

6.4.3 Switched Transport Optional Features (Cont'd)

(B) Billing Validation Service (Optional Feature) (Cont'd)

When BVS is ordered, network compatibility and other operational tests will be performed cooperatively by the Telephone Company and the customer at locations, dates, and times as specified by the Telephone Company in consultation with the customer. These tests are as specified in Bell Atlantic Supplement Common Channel Signaling (CCS) Network Interface Specification Issue #1 December 1990, and Technical Publication TR-TSV-000905, Issued July 1989, and successful completion is necessary to receive BVS. To protect the security of the network, certain of the information provided, i.e., point codes, by the Telephone Company to the customer will be subject to a non-disclosure agreement.

The Telephone Company will administer its LIDB to insure the provision of acceptable service levels to all customers of the Telephone Company's BVS. During periods of BVS system congestion, an automatic call gapping procedure will be utilized to control such congestion. The automatic call gapping procedure will tell the switch the gap (how long the switch should wait before sending another query) and the duration (how long the switch should continue to perform gapping). For example, during an overload condition, the automatic call gapping procedure will tell the LIDB when to begin to drop one out of three of the queries received. This call gapping procedure will be applied uniformly to all users of the Telephone Company's BVS.

The Telephone Company maintains the right to invoke manual intervention of the automatic call gapping procedure to preserve the integrity of the network.

BVS is designed for one hundred percent (100%) availability and has a mated configuration to ensure such availability. The LIDB validation system is capable of processing up to 150 queries per second. The roundtrip response time for a query should not exceed two seconds for 99 percent of all queries.

BVS is subject to the rates and charges as specified in 6.9.1(M) following. A recurring Query Transport charge will be assessed on a per query basis to transport the LIDB query between the Telephone Company's STP and the LIDB SCP. A recurring Query Validation charge will be assessed on a per query basis for processing the LIDB query. A nonrecurring Service Establishment charge will be assessed on an originating point code basis for establishing or changing a customer's BVS. (T)

Material appearing on this page formerly appeared on Page 193.3

(This page filed under Transmittal No. 766)

Issued: April 7, 1995

Effective: May 22, 1995

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.3 Switched Transport Optional Features (Cont'd)

(C) Toll Free* Data Base Access Service

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

Customers have the option of specifying an area of service from which to receive calls. A specific area of service can be a LATA, state, region, USA, or USA/Canada/Caribbean.

Toll Free Data Base Access Service calls may be delivered to the customer directly from an end office only when the end office is equipped with Toll Free Data Base query functionality, i.e., ability to query the Toll Free Data Base to perform ten-digit customer identification. When the end office does not have Toll Free Data Base query functionality, the query is delivered to the customer from the access tandem (all access tandems have Toll Free Data Base query functionality).

Feature Group D rates and charges apply to Toll Free Data Base Access Service calls originated from end offices with equal access capability. In addition to Feature Group D usage charges, a basic query charge as specified in 6.1.2(A)(8) preceding and 6.9.1(N) following applies to each Toll Free Data Base Access Service call delivered to the customer. A basic query charge consists of customer identification [i.e., Carrier Identification Number (CIC)], delivery of the dialed Toll Free ten-digit number, ANI, and the allowable area of service, designated by the customer, from which Toll Free calls can be received.

(C)

The Federal Communications Commission ("FCC") has concluded that hoarding, defined as the acquisition of more toll free numbers than one intends to use for the provision of toll free service, as well as the sale of a toll free number by a private entity for a fee, is contrary to the public interest in the conservation of the scarce toll free number resource and contrary to the FCC's responsibility to promote the orderly use and allocation of toll free numbers.

* "Toll Free" is considered to mean any access service which utilizes any of the following NPA's: 800, 888, 877, 866, 855, 844, 833, and 822 as they become available to the industry.

(This page filed under Transmittal No. 1094)

Issued: November 30, 1998

Effective: December 15, 1998

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.3 Switched Transport Optional Features (Cont'd)

(C) Toll Free Data Base Access Service (Cont'd) (T)

Vertical Feature Package (VFP)

This feature package, available only with Toll Free Data Base Access Service, provides feature functionality in addition to the basic query. The feature package may include various destination options such as POTS Translation, carrier selection, time of day routing, day of week routing, specific date routing, geographic routing, routing based on percent of allocation, and emergency routing profiles. (T)

Transmission Specifications

Toll Free Data Base Access Service is provided with either Type A, Type B or Type C Transmission Specifications as follows: (T)

- 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 10.

For Toll Free Data Base Access Service traffic originating from end offices with Data Base query functionality, all normal Feature Group D parameters apply. (T)

Toll Free Data Base Access Service traffic originating from all other end offices, Type A Transmission Specifications are provided for the facility between the access tandem and the customer's facilities. (T)

(This page filed under Transmittal No. 849)

Issued: February 1, 1996

Effective: March 1, 1996

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Common Switching and Transport Termination Optional Features and BSEs (Cont'd)

6.4.3 Switched Transport Optional Features (Cont'd)

(D) 500 Access Service

500 Access Service is a service designed to meet the needs of 500 Service Providers of Personal Communications Service (PCS) who have been assigned a 500-NXX code by the North American Numbering Plan Administrator.

500 Access Service is an originating only trunk side service. When a 500-NXX-XXXX call is originated by an end user, the Telephone Company will perform customer identification based on six-digit 500-NXX screening of the 500 number to determine the customer location to which the call is to be routed.

Customers have the option of having the Telephone Company perform additional data base processing for calls to their 500-NXX code in order to translate the dialed 500-NXX-XXXX number to a geographic NANP number (i.e. POTS) for routing of the call. This option is not available for customers that have requested 0+500-NXX-XXXX originated calls to be completed by originating end users. A switched Access rearrangement charged as specified in 6.8.1(c)(2) will apply for each subsequent order for this option. (T)

Certain end office switches are not equipped with 500 NXX query functionality. In these instances 0+500 calls will be routed to a Telephone Company operator switch which will translate the 0+500 NXX number and route the call. Customers will be required to provide trunks at the operator switch. 1+500 calls will be routed to a Telephone Company hubbing office equipped with 500 NXX functionality.

Feature Group D rates and charges apply to 500 Access Service calls originated from end offices with equal access capability. The query charge as specified in 6.9.1 following applies to each 500 Access Service call delivered to the customer. A query charge consists of customer identification [i.e., Carrier Identification Code (CIC) or Trunk Group], delivery of the dialed 500 number or POTS translation of the dialed 500 number, ANI, from the allowable area of service.

(This page filed under Transmittal No. 917)

Issued: October 30, 1996

Effective: December 14, 1996

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications

Each Switched Access Service transmission path is provided with standard transmission specifications. There are three different standard specifications (Types A, B and C). The standard for a particular transmission path is dependent on the Switched Access Service, the Interface Group and whether the service is directly routed or via an access tandem. The available transmission specifications are set forth in 6.5.1 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 6.5.2(A) or 6.5.2(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 functioning service configurations installed prior to the effective date of this tariff 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 and associated Revision 1. This Technical Reference also provides the basis for determining Switched Access service maintenance limits. Transmission specifications for out of band signaling connections are set forth in the Bell Atlantic Supplement Common Channel Signaling (CCS) Network Interface Specification, Issue #1, December 1990, and in Technical Reference TR-TSV-000905.

Transmission specifications for 64 Clear Channel Capability, when provisioned with Trunkside BSA-101XXXX Option or FGD with out of band signaling, are set forth in Technical Reference TR-NWT-000938, Issued August, 1990. (C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications (Cont'd)

6.5.1 Standard Transmission Specifications

Following are descriptions of the three Standard Transmission Specifications available with Switched Access Services. The specific applications in terms of the Switched Access Services and Interface Groups with which the Feature Group and BSA 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(C) preceding. (T)(x)

(A) Type A Transmission Specifications

Type A Transmission Specifications are 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 + 2.0 dB

(x) Material currently in effect is being reinstated. This material filed under authority of Special Permission No. 93-315 of the Federal Communications Commission.

(This page filed under Transmittal No. 568)

Issued: May 3, 1993

Effective: July 1, 1993

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications (Cont'd)

(T)

6.5.1 Standard Transmission Specifications (Cont'd)

(T)

(A) Type A Transmission Specifications (Cont'd)

(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 (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. They are equal to or greater than the following:

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

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications (Cont'd)

6.5.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications

Type B Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is \pm 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.

(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.

* For Trunkside BSA - MTS/WATS Option, Trunkside BSA-101XXXX Option and Feature Groups C and D only Type B2 will be provided. For Lineside BSA, Trunkside BSA - 950 Option and Feature Groups A and B, Type B1 or B2 will be provided set as forth in Technical Reference TR-NPL-000334 and associated Revision 1. (C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications (Cont'd)

6.5.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Impedance Balance for Lineside BSA, Trunkside BSA - 950 Option and FGA and FGB and Equal Level Echo Path Loss for Trunkside BSA - MTS/WATS Option FGC and Trunkside BSA-101XXXX Option 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 Point of Termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Switched Access Services of termination, and type of transmission path. They are greater than or equal to the following: (C)

	<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 Trunkside BSA -		
950 Option and		
FGB access	8 dB	4 dB
- For Trunkside BSA -		
MTS/WATS Option		
and FGB access		
(Effective 4-Wire		
transmission path		
at end office)	16 dB	11 dB
- For Trunkside BSA -		
MTS/WATS Option		
and FGC access		
(Effective 2-Wire		
transmission path		
at end office)	13 dB	6 dB

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications (Cont'd)

6.5.1 Standard Transmission Specifications (Cont'd)

(C) Type C Transmission Specifications

Type C Transmission Specifications are 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 \pm 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

* For Trunkside BSA - MTS/WATS Option, Trunkside BSA-101XXXX Option, and Feature Group C and D only Type C2 will be provided. For Lineside BSA, Trunkside BSA - 950 Option, and Feature Groups A and B, Type C1 or C2 will be provided as set forth in Technical Reference TR-NPL-000334 and associated Revision 1.

(C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications (Cont'd)

(T)

6.5.1 Standard Transmission Specifications (Cont'd)

(T)

(C) Type C Transmission Specifications (Cont'd)

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a 16 dBmO holding tone is less than or equal to 47 dBrnC0.

(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to End Office		
- Direct	13 dB	6 dB

Issued: November 1, 1991

Effective: February 1, 1992

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications (Cont'd)

(T)

6.5.1 Standard Transmission Specifications (Cont'd)

(T)

Issued: November 1, 1991

Effective: February 1, 1992

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications (Cont'd)

(T)

6.5.1 Standard Transmission Specifications (Cont'd)

(T)

Issued: November 1, 1991

Effective: February 1, 1992

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications (Cont'd)

6.5.2 Data Transmission Parameters

(Z)

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Switched Access Services. The specific applications in terms of the BSAs with which they are provided are set forth in 6.3.1, 6.3.2, 6.3.2.1, 6.3.2.2, and 6.3.2.3 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.

(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

(This page filed under Transmittal No. 1249)

Issued: February 9, 2000

Effective: February 24, 2000

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications (Cont'd)

6.5.2 Data Transmission Parameters (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBrnC0 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.

(B) Data Transmission Parameters Type DB

(Z)

(1) Signal to C-Notoned Noise Ratio

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

(This is page filed under Transmittal No. 1249)

Issued: February 9, 2000

Effective: February 24, 2000

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications (Cont'd)

(T)

6.5.2 Data Transmission Parameters (Cont'd)

(T)

(B) Data Transmission Parameters Type DB (Cont'd)

(3) 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 dBrnC0 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.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications (Cont'd)

6.5.2 Data Transmission Parameters (Cont'd)

(Z)

(This page filed under Transmittal No. 1249)

Issued: February 9, 2000

Effective: February 24, 2000

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Transmission Specifications (Cont'd)

6.5.3 Reserved for Future Use

(Z)

(This page filed under Transmittal No. 1249)

Issued: February 9, 2000

Effective: February 24, 2000

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Obligations of the Telephone Company

(T)

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:

6.6.1 Network Management

(T)

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 preceding.

Issued: November 1, 1991

Effective: February 1, 1992

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Obligations of the Telephone Company (Cont'd)

6.6.2 Design and Traffic Routing of Switched Access Service

(Z)

For Switched Access Services, the customer and the Telephone Company will apply a capacity threshold test to determine the design and routing of the Switched Access Service. When the amount of estimated traffic to and/or from an end office is equal to or less than 750 busy hour minutes of use, the customer may specify whether the traffic is to be routed directly between the end office and customer's premises or whether all or a portion of the traffic should be routed via an access tandem. When the amount of estimated traffic to and/or from an end office exceeds 750 busy hour minutes of use, the Telephone Company will work cooperatively with the customer to design and determine the routing and directionality using either direct final trunks or a combination of direct high usage trunks between the end office and the customers premises, with alternate route trunks via the access tandem.

The Telephone Company will determine whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment. Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment, and the Telephone Company traffic routing plans.

6.6.3 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 Sections, 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.

6.6.4 Trunk Group Measurement Reports

Subject to availability, 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.

(This page is filed under Transmittal No. 1249)

Issued: February 9, 2000

Effective: February 24, 2000

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Obligations of the Telephone Company (Cont'd)

6.6.5 Determination of Number of Transmission Paths

The following applies to switched access voice transmission paths, and does not apply to signaling connections provided with CCSAS. The number of transmission paths for out of band signaling connections will be determined jointly by the Telephone Company and the Customer.

Customers ordering Switched Access Services specify 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 and a Telephone Company location.

6.6.6 Determination of Number of End Office Transport Terminations

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.

(D)

(D)

(This page filed under Transmittal No. 689)

Issued: August 31, 1994

Effective: October 5, 1994

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Obligations of the Telephone Company (Cont'd)

6.6.7 Designed Blocking Probability

(N)

The Telephone Company will design the facilities for the provision of tandem circuits used for common transport between the access tandem and the end office.

In addition, the Telephone Company will perform routine measurement functions in accordance with Telephone Company blocking objectives to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional trunks be ordered by the customer when required to reduce the measured blocking to the objective.

- (A) For FGA and FGB (Lineside BSA and Trunkside BSA - 950 Option) no blocking criteria apply.
- (B) The blocking objective for FGB on D, and FGD (Trunkside BSA - MTS/WATS Option) will be no greater than one percent (.01) between the point of termination at the customer's premises and the first point of switching in the Telephone Company's network when traffic is directly routed without an alternate route. For this directly routed traffic, the objective is solely a function of the customer's network design.
- (C) The blocking objective for FGD (Trunkside BSA - 10XXX/101XXXX) will be no greater than one percent (.01) between the point of termination at the customer's premises and the end office switch, whether the traffic is directly routed without an alternate route or routed via an access tandem. For traffic routed via an access tandem, the objective is a combination of the Telephone Company's common transport design capacity and the customer's network design capacity.
- (D) Standard traffic engineering methods as set forth in Technical Reference PUB SR EDP, Trunk Traffic Engineering Concepts and Applications, will be used by the Telephone Company to determine the number of trunks required to achieve the blocking objectives in all cases.

The design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the thresholds listed in the following tables:

(N)

(This page filed under Transmittal No. 1048)

Issued: May 6, 1998

Effective: May 21, 1998

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Obligations of the Telephone Company (Cont'd)

6.6.7 Designed Blocking Probability (Cont'd)

(N)

(D) (Cont'd)

<u>Number of Transmission Paths Per Trunk Group</u>	<u>Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Per Trunk Group</u>			
	<u>15-20</u>	<u>11-14</u>	<u>7-10</u>	<u>3-6</u>
	<u>Measurements</u>	<u>Measurements</u>	<u>Measurements</u>	<u>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

(1) For transmission paths carrying first routed traffic between an end office and a customer's premises via an access tandem, 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 Per Trunk Group</u>			
	<u>15-20</u>	<u>11-14</u>	<u>7-10</u>	<u>3-6</u>
	<u>Measurements</u>	<u>Measurements</u>	<u>Measurements</u>	<u>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

(N)

(This page filed under Transmittal No. 1048)

Issued: May 6, 1998

Effective: May 21, 1998

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Obligations of the Telephone Company (Cont'd)

(T)

6.6.8 End User Line and Usage Information Data

(T)

(A) General

The Telephone Company will provide to customers, upon request, historical and projected information pertaining to the number of end user lines and latest available average use per line. Such information shall be limited to that information which the Telephone Company uses in the course of performing its normal business operations. Additionally, the Telephone Company will make update information available only on a semi-annual basis.

(B) Information Content and Format

The historical and projected data will be provided on a per end office basis and will consist of the following information:

- Number of residential lines
- Number of business lines
- Average use per line

Unless requested otherwise, the data will be provided in machine-readable format.

(C) Availability of Data

The Telephone Company will provide the data to the requesting customer within 30 days of the receipt of the request. Separate requests are limited to two per end office per year.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Obligations of the Telephone Company (Cont'd)

6.6.8 End User Line and Usage Information Data (Cont'd)

(D) The charge to the customer for such data will be developed on an individual case basis and will include only those incremental costs incurred by the Telephone Company in responding to the individual data request. Individual Case Basis (ICB) tariff filings will be made in Section 12, Specialized Service or Arrangements, following. Incremental costs include, but are not limited to, costs associated with the provision of data in a non-standard format as well as costs associated with responding to other individualized treatment requested by the customer.

6.6.9 Bill Verification Data

At the customer's request and at no charge, the Telephone Company will provide, within 30 days from receipt of a written request, underlying data used to derive subscriber line ratios as defined in Section 6.8.1 (D)(4) following. In addition to data used to develop subscriber line ratios, additional bill verification data, as is readily available, will also be provided subject to the preceding conditions.

6.6.9.1 Operator Transfer Service

Upon customer request, the Telephone Company will provide a list identifying Operator Services Access Points for use with Operator Transfer Service as specified in 6.3.2.3(A) preceding. Additionally, the Telephone Company will define the service areas of designated Operator Services Access Points and will identify the signalling capability of end offices in the service area.

(T)

6.7 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:

(This page filed under Transmittal No. 565)

Issued: April 2, 1993

Effective: July 1, 1993

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Obligations of the Customer (Cont'd)

6.7.1 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 interstate charges is set forth in 2.3.11 preceding.

(B) Code Screening Reports

When a customer orders service class routing, trunk access limitation or call gapping arrangements, 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) Telecommunications Relay Service (TRS) Provider Reports (N)(x)

When a customer uses Switched Access service to carry tandem routed traffic originated from a TRS Center, in cases where the tandem does not have the capability to measure calls, the Telephone Company will assess applicable access charges to the customer based on reports provided by the TRS provider. (N)(x)

(x) Filed under authority of Special Permission No. 93-540 of the Federal Communications Commission.

(This page filed under Transmittal No. 574-Amended)

Issued: June 30, 1993

Effective: July 26, 1993

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Obligations of the Customer (Cont'd)

6.7.1 Report Requirements (Cont'd)

(C) 900 and Interim 500 Access Service NXX Codes

(T)

All 900 and Interim 500 NXX Code assignments and administration shall be in accordance with the North American Numbering Plan (NANP).

When ordering 900 and Interim 500 Access Service, NXX Codes to be activated or deactivated must be provided to the Telephone Company in accordance with applicable ordering intervals. Customer assigned codes, for which an order has not been received, will be blocked.

Customers ordering 900 Access Service are required to provide both a field test number and a trouble referral contact number to the Telephone Company coincident with the order for service. The field test number will be utilized by the Telephone Company to place test calls to the Customer's premises. The referral contact number will be utilized by the Telephone Company to refer end user trouble reports to the appropriate customer.

(This page filed under Transmittal No.)

Issued:

Effective:

Vice President
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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Obligations of the Customer (Cont'd)

6.7.2 Supervisory Signaling

The customer's facilities shall provide the necessary on-hook, off-hook answer and disconnect supervision. For 500 Access Service, Toll Free Data Base Access Service, and 900 Access Service, which originates from end offices other than equal access end offices with the customer identification function, and for Trunkside BSA - 950, the customer shall provide answer off-hook signal upon completion of the outpulsed signaling sequence at his point of presence.

For Trunkside BSA-101XXXX Option, including 500 Access Service, Toll Free Data Base Access Service, and 900 Access Service from equal access end offices with the customer identification function, the customer shall return answer off-hook signal when the called party answers. (C)

6.7.3 Trunk Group Measurements 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.

6.7.4 Design of Switched Access Services

When a customer orders Trunkside BSA-101XXXX Option Switched Access Service, or trunks associated with 900 Access Service, 500 Access Service, Toll Free Data Base Access Service, it is the customer's responsibility to assure that sufficient access services have been ordered to handle its traffic or the blocking charge as specified in 6.8.9 will be applied. (C)

(This page filed under Transmittal No. 1056)

Issued: June 15, 1998

Effective: June 30, 1998

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042