

ACCESS SERVICE

CHECK SHEET

The title page and pages 1 through 12-23 and Price Sheet 1 through Price Sheet 9 inclusive of this Tariff are effective as of the dates shown. Original and revised pages, as named below, comprise all changes from the original Tariff in effect on the date indicated.

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ACCESS SERVICE

1. DEFINITIONS

Defined below are certain terms that are used throughout this tariff in conjunction with access services provided by this Company.

Access Code: A seven-digit dialing sequence designated by 101XXXX or 950XXXX, where XXXX represents the uniform four-digit carrier identification code. (T)

Access Minutes: For the purpose of calculating chargeable usage, the term "Access Minutes" denotes customer usage of exchange facilities in the provision of interstate or foreign service. On the originating end of an interstate or foreign call, usage is measured from the time the originating end user's call is delivered by the Telephone Company to and acknowledged as received by the customer's facilities connected with the originating exchange. On the terminating end of an interstate or foreign call, usage is measured from the time the call is received by the end user in the terminating exchange. Timing of usage at both originating and terminating ends of an interstate or foreign call shall terminate when the calling or called party disconnects, whichever event is recognized first in the originating and terminating exchanges, as applicable.

Access Service: Switched Access to the network of an Interexchange Carrier for the purpose of originating or terminating communications.

Access Service Request: The industry Service Order format used by Access Service customers and access providers, as agreed to by the Ordering and Billing Forum. (T)

Access Tandem: An Exchange Carrier's switching system that provides a concentration and distribution function for originating and/or terminating traffic between local switching centers and customers' premises.

Advance Payment: Payment for all or part of a charge required before the start of service.

Alternate Access: Alternate Access has the same meaning as Local Access except that the provider of the service is an entity other than the Local Exchange Carrier authorized or permitted to provide such service. The charges for Alternate Access may be specified in a private agreement rather than in a published or special tariff if private agreements are permitted by applicable governmental rules.

Authorized User: A person, firm, corporation or other entity that is either authorized by the Customer to use Access Service or is placed in a position by the Customer, either through acts or omissions, to use Access Services.

Bit: The smallest unit of information in the binary system of notation.

Carrier or Common Carrier: see Interexchange Carrier or Exchange Carrier.

Channel(s): An electrical, or in the case of fiber optic-based transmission system, a photonic, communications path between two or more points of termination.

Common Channel Signaling: A high speed packet switched communications network which is separate (out of band) from the public packets switched and message networks. It is used to carry addressed signaling messages for individual trunk circuits and/or database related services between signaling points in the Common Channel Signaling network. (T)

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1. DEFINITIONS (Cont'd)

Common Line: The term "Common Line" denotes a line, trunk, pay telephone line or other facility provided under the general and/or local exchange service tariffs of the Telephone Company, terminated on a central office switch. A common line-residence is a line or trunk provided under the residence regulations of the general and/or local exchange service tariffs. A common line-business is a line provided under the business regulations of the general and/or local exchange service tariffs.

Company: HTC Communications, Inc., which is the issuer of this tariff.

Conventional Signaling: The inter-machine signaling system has been traditionally used in North America for the purpose of transmitting the called number's address digits from the originating Local Switching Center which terminates the call. In this system, all of the dialed digits are received by the originating switching machine, a path is selected, and the sequence of supervisory signals and outpulsed digits is initiated. No overlap outpulsing ten digit ANI, ANI information digits, or acknowledgment link are included in this signaling sequence.

Customer: The person, firm, corporation or other entity which orders Service and is responsible for the payment of charges and for compliance with the Company's tariff regulations.

Dedicated: A facility or equipment system or subsystem set aside for the sole use of a specific customer.

Duplex Service: Service which provides for simultaneous transmission in both directions.

800/888 Data Base Access Service: The term "800/888 Data Base Access Service" denotes a toll-free originating Trunkside Access Service where the 8XX service Access Code (i.e. 800, 822, 833, 844, 855, 866, 877 or 888 as available) is used. The term 8XX is used interchangeably with 800/888 Data Base Service throughout this tariff to describe this service.

End-user: Any individual, association, corporation, governmental agency or any other entity other than an Interexchange Carrier which subscribes to intrastate service provided by an Exchange Carrier.

Exchange Carrier: Any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged in the provision of local exchange telephone service.

Fiber Optic Cable: A thin filament of glass with a protective outer coating through which a light beam carrying communications signals may be transmitted by means of multiple internal reflections to a receiver, which translates the message.

Firm Order Confirmation: Acknowledgment by the Company of receipt of an Access Service Request from the Customer, and commitment by the Company of a Service Date. (T)

Frame: The term Frame denotes a group of data bits in a specific format, which enables network equipment to recognize the meaning and purpose of the specific bits.

Frame Relay Access Connection: The Term Frame Relay Access Connection denotes the physical facility, including the associated port, between the end user's data terminal equipment and the Telephone Company's frame relay switch.

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1. DEFINITIONS (Cont'd)

Frame Relay Access Service: The term Frame Relay Access Service denotes a medium-speed, connection-oriented packet-switched data service that allows for the interconnection of Local Area Networks or other compatible customer premises equipment for the purpose of connecting to an interstate frame relay network.

Frame Relay End User Port: The term Frame Relay End User Port denotes the physical location in the Telephone Company switching office where the Special Access facility of the customer connects to the Frame Relay Access Service network. It specifies how a frame relay switch sends and receives data from a frame relay end user customer's LAN or other compatible CPE devices.

Frame Relay Inter-network Connection: The term Frame Relay Inter-network Connection denotes the physical facility, including the associated port, between the access customer's frame relay network and the Telephone Company's frame relay switch.

Frame Relay Inter-network Customer Port: The term Frame Relay Inter-network Customer Port denotes the physical location in the Telephone Company switching office where the access customer's Special Access facility connects to the Telephone Company's Frame Relay Access Service Network. It specifies how a frame relay switch sends and receives data from a frame relay access customer's network.

Hub: The Company office where all customer facilities are terminated for purposes of interconnection to trunks and/or cross-connection to distant ends.

Individual Case Basis: A service arrangement in which the regulations, rates and charges are developed based on the specific circumstances of the Customer's situation.

Interexchange Carrier or Interexchange Common Carrier: Any individual, partnership, association, joint-stock company, trust governmental entity or corporation engaged in state or foreign communication for hire by wire or radio, between two or more exchanges. (T)

Joint User: A person, firm or corporation designated by the Customer as a user of access facilities furnished to the Customer by the Company, and to whom a portion of the charges for such facilities are billed under a joint use arrangement.

Kbps: Kilobits, or thousands of Bits, per second.

LATA: A local access and transport area established pursuant to the Modification of Final Judgment entered by the United States District Court for the District of Columbia in Civil Action No. 82-0192 for the provision and administration of communications services.

Line Information Data Base: The data base which contains billing information such as telephone numbers, calling card numbers and associated billed number restriction data used in connection with the validation and billing of calls. (T)

Local Access: The connection between a customer's premises and a point of presence of the Exchange Carrier.

Local Switching Center: The switching center where telephone exchange service customer station Channels are terminated for purposes of interconnection to each other and to interoffice Trunks.

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ACCESS SERVICE

1. DEFINITIONS (Cont'd)

Mbps: Megabits, or millions of bits, per second.

Meet Point Billing: The arrangement through which multiple Exchange Carriers involved in providing Access Services, divide the ordering, rating, and billing of such services on a proportional basis, so that each Exchange Carrier involved in providing a portion of the Access Service agrees to bill under its respective tariff.

Network: The Company's digital fiber optics-based network located in the Continental United States.

Network Services: The Company's telecommunications Access Services offered on the Company's network.

Non-Recurring Charges: The one-time initial charges for services or facilities, including, but not limited to charges for construction, installation, or specific fees, for which the Customer becomes liable at the time the Service Order is executed.

Off-Hook: The active condition of Switched Access or a telephone exchange service line.

On-Hook: The idle condition of Switched Access or a telephone exchange service line.

Out of Band Signaling: An exchange access signaling feature which allows customers to exchange call control and signaling information over a communications path which is separate from the message path.

Point of Presence: Location where the Customer maintains a facility for purposes of interconnecting to the Company's network.

Point to Point Service: An unswitched full time transmission service utilizing the Company's facilities to connect two or more Customer designated locations.

Premises: The space occupied by a Customer or Authorized User in a building or buildings or on contiguous property (except railroad rights-of-way, etc.).

Presubscription: An arrangement whereby an end user may select and designate to the Company an Interexchange Carrier or Carriers it wishes to access by dialing 1+ or 0+, in order to complete interLATA calls. The selected Interexchange Carrier(s) is/are referred to as the end user's Primary Interexchange Carrier(s). The end user may select any Interexchange Carrier that orders FGD Switched Access Service at the Local Switching Center that serves the end user. (T)

Recurring Charges: The monthly charges to the Customer for services, facilities and equipment, which continue to be assessed for the agreed upon duration of the service.

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1. DEFINITIONS (Cont'd)

Service Commencement Date: For Direct Connect Switched Access Service, the first day following the date on which the Company notifies the Customer that the requested service or facility is available for use, unless extended by the Customer's refusal to accept service which does not conform to standards set forth in the Service Order or this tariff, in which case the Service Commencement Date is the date of the Customer's acceptance of service. The parties may mutually agree on a substitute Service Commencement Date. If the Company does not have an executed service Order from a Customer, the Service Commencement Date will be the first date on which the service or facility was used by the Customer. For Tandem Connect Customers, the Service Commencement Date will be the first date on which the service or facility was used by the Customer.

Service Order: The written request for network services executed by the Customer and the Company in a format devised by the Company; or, in the alternative, the submission of an Access Service Request by the Customer in the manner specified in this tariff. The signing of a Service Order to submission of an Access Service Request by the Customer and acceptance thereof by the Company initiates the respective obligations of the parties as set forth therein and pursuant to this tariff, but the duration of the service is calculated from the Service Commencement Date. (T)

Service(s): The Company's telecommunications Access Services offered on the Company's network.

Shared Facilities: A facility or equipment system or subsystem which can be used simultaneously by several customers.

Signaling Point of Interface: The customer designated location where the SS7 signaling information is exchanged between the Company and the Customer.

Signaling System 7 (SS7): The common Channel Out of Band Signaling protocol developed by the Consultative Committee for International Telephone and Telegraph (CCITT) and the American National Standards Institute (ANSI).

Signaling Transfer Point Access: Allows the Customer to access a specialized switch which provides SS7 network access and performs SS7 messaging routing and screening.

Special Access Service: Dedicated access between a Customer's premises and another Point of Presence for the purpose of originating or terminating communications. Special Access is available to both carriers and end-users, as defined in this tariff.

Switched Access Service: Access to the switched network of an Exchange Carrier for the purpose of originating or terminating communications. Switched Access is available to carriers, as defined in this tariff.

Trunk: A communications path connecting two switching systems in a network, used in the establishment of an end-to-end connection.

ACCESS SERVICE

3. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE

3.1 General

This section sets forth the regulations and order related charges for Access Service Requests for Switched Access Service, as defined in this tariff. These charges are in addition to other applicable charges set forth in other sections of this tariff. (T)

3.1.1 Ordering Conditions

All services offered under this tariff will be ordered using an Access Service Request. The format and terms of the Access Service Request will be as specified in the industry Access Service Order Guidelines, unless otherwise specified herein. A Customer may order any number of services of the same type and between the same premises on a single Access Service Request. All details for services for a particular order must be identical. (T)

The Customer shall provide all information necessary for the Company to provide and bill for the requested service. When placing an order for Access Service, the Customer shall provide the following minimum information:

3.1.1.A Customer name and premises address(es);

3.1.1.B Billing name and address (when different from Customer name and address); and

3.1.1.C Customer contact name(s) and telephone number(s) for the following provisioning activities: order negotiation, order confirmation, interactive design, installation and billing.

The order date (Application Date) is the date on which the Company receives a firm commitment and sufficient information from the Customer to allow processing of the Access Service Request. The Customer is advised of the critical events in the provisioning process, the Application Date, the Plant Test Date and the Service Commencement Date, at the time the Company gives the Customer a Firm Order Confirmation. (T)

ACCESS SERVICE

3. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE (Cont'd)

3.1 General (Cont'd)

3.1.2 Provision of Other Services

Unless otherwise specified herein, all services offered under this tariff shall be ordered with an Access Service Request. (T)

With the agreement of the Company, other services may subsequently be added to the Access Service Request at any time, up to and including the service date for the Access Service. When added subsequently, charges for a Design Change charge will apply when an engineering review is required.

Additional Engineering is not an ordering option, but will be applied to an Access Service Request when the Company determines that Additional Engineering is necessary to accommodate a Customer request. Additional Engineering will be provided by the Company at the request of the Customer only when a Customer requests additional technical information after the Company has already provided the technical information included on the Design Layout Report as set forth herein. The Customer will be notified when Additional Engineering is required, and will be furnished with a written statement setting forth the justification for the Additional Engineering as well as an estimate of the charges. If the Customer agrees to the Additional Engineering, a firm order will be established. If the Customer does not want the service or facilities after being notified by the Company that Additional Engineering is required, the Customer may cancel the order and no charges will apply. Once a firm order has been established, the total charge to the Customer for the Additional Engineering may not exceed the original estimated amount by more than ten (10) percent. (T)

3.2 Access Order

An Access Service Request is required by the Company to provide a Customer Switched Access Service, as described herein. An Access Service Request will be required for each new similar service arrangement or group of common circuits. (T)

When a Customer requests new or additional Switched Access Service, one or more Access Service Requests may be required. The number of orders required is dependent on the type of services and/or facilities being requested. (T)

ACCESS SERVICE

3. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE (Cont'd)

3.2 Access Order (Cont'd)

When placing an order for either Switched or Special Access Service, as described in sections 4 and 9, respectively, the Customer shall provide all standard Access Service Request ordering information as specified in industry guidelines. The Customer will also be required to provide this information to order additional service for an existing service type. For new Customers ordering Tandem Connect Service, the Customer will only be required to complete an Access Service Request for installation of new service. The Access Order charges are found in Section 12.1.1. (T)

3.2.1 Access Service Date Intervals

Access Service is provided with one of the following Service Date intervals:

- Standard Interval
- Negotiated Interval

The Company will provide an Firm Order Confirmation and the Service Commencement Date contingent on the Access Service Request being complete as received. To the extent the Access Service can be made available with reasonable effort, the Company will provide the Access Service in accordance with the Customer's requested interval, subject to the following conditions: (T)

3.2.1.A Standard Interval

The Standard Interval for Switched Service will be published.

3.2.1.B Negotiated Interval

The Company will negotiate a Service Date interval with the Customer when:

- 3.2.1.B.(1) The Customer requests a Service Date before or beyond the applicable Standard Interval Service Date; or
- 3.2.1.B.(2) There is no existing facility connecting the Customer premises with the Company; or
- 3.2.1.B.(3) The Customer requests a service that is not considered by the Company to be a standard service offering (for example, if Additional Engineering is required to complete the order); or

ACCESS SERVICE

3. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE (Cont'd)

3.2 Access Order (Cont'd)

- 3.2.1.B.(4) The Company determines that Access Service cannot be installed within the Standard Interval.

The Company will offer a Service Date based on the type and quantity of Access Service the Customer has requested. The Negotiated Interval may not exceed by more than six months the Standard Interval Service Date, or, when there is no Standard Interval, the Company offered Service Date.

3.2.2 Access Service Request Modifications

The Customer may request a modification of its Access Services Request prior to the Service Commencement Date. All modifications must be in writing using the industry Access Services Request process. The Company, in its sole discretion, may accept a verbal modification from the Customer. The Company will make every effort to accommodate a request modification when it is able to do so with the normal work force assigned to complete such an order within normal business hours. Charges for access Service Order modification will apply as set forth below, on a per occurrence basis. (T)

3.2.2.A Service Commencement Date Changes

Access Service Request service dates for the installation of new services or rearrangement of existing services may be changed, but the new service date may not exceed the original Service Commencement Date by more than 30 calendar days. When, for any reason, the Customer indicates that service cannot be accepted for a period not to exceed 30 calendar days, and the Company accordingly delays the start of service, a Service Date Change Charge will apply. In addition, when the Customer submits a request for a Service Date Change that is less than five (5) business days from the date of notification by the Customer, a Service Date Change Charge and an Expedite Charge will apply. No Expedite Charge will apply if the Customer requests a Service Date Change that is more than five (5) business days from the date of request by the Customer, but earlier than the original requested Service Commencement Date. (T)

ACCESS SERVICE

3. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE (Cont'd)

3.2 Access Order (Cont'd)

If the customer-requested service date is more than 30 calendar days after the original service date, the order will be canceled by the Company on the 31st day. Appropriate cancellation charges will be applied. If the Customer still requires the service, the Customer must place a new Access Services Request with the Company.

The Service Date Change Charge will apply on a per order, per occurrence basis for each service date change. The applicable charges are set forth in Section 12.1.2.

3.2.2.B Design Change Charge

The Customer may request a Design Change to the Service Ordered. A Design Change is any change to an Access Services Request which requires an Engineering Review. An Engineering Review is a review by Company personnel of the Service Ordered and the requested changes to determine what change(s) in the design, if any, are necessary to meet the Customer's request. Design Changes include such changes as the addition or deletion of optional features or functions, a change in the type of Transport Termination (Switched Access only) or type of Channel interface. Any other changes are not considered Design Changes for the purpose of this subsection, and will require issuance of a new Access Service Request and the cancellation of the original Access Services Request. The appropriate cancellation charges will apply in these instances. (T)

The Design Change Charge will apply on a per order, per occurrence basis, for each order requiring a Design Change. The applicable charges, as set forth in Section 12.1.3 are in addition to any Service Date Change Charges that may apply.

ACCESS SERVICE

3. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE (Cont'd)

3.2 Access Order (Cont'd)

3.2.2.C Expedited Order Charge

When placing an Access Order for service(s) for which a Standard Interval exists, a Customer may request a Service Commencement Date that is earlier than the Standard Interval Service Date, in which case an Expedite Charge will apply. The Expedite Charge will not apply if the new Service Commencement Date is more than five (5) days from the date of the request to the Company of the expedited order request. The request for an earlier service date may be received from the Customer prior to its issuance of an Access Service Request, or after the Access Service Request has been issued but prior to the service date. The Company has the exclusive right to accept or deny the Expedite Order request. However, if, upon reviewing availability of equipment and scheduled work load, the Company agrees to provide service on an expedited basis and the Customer accepts the Company's proposal, an Expedite Charge will apply.

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If the Company is subsequently unable to meet an agreed upon expedited service date, the Expedite Charge will not apply.

In the event the Company provides service on an expedited basis at the Customer's request, and the Customer delays service or is not ready for delivery of service at the time of installation, a Service Date Change Charge will apply in addition to the Expedite Charge.

In the event that the Customer cancels an expedite request, the Expedite Charge will be added to any applicable Cancellation Charge specified herein.

In the event that the Customer requests a Service Date Change after the Company has received the original expedite request, the Expedite Charge will still apply.

An Expedite Charge will not be applied to orders expedited for Company reasons.

ACCESS SERVICE

3. ORDERING OPTIONS FOR SWITCHED AND SPECIAL ACCESS SERVICE (Cont'd)

3.2 Access Order (Cont'd)

If costs other than additional administrative expenses are to be incurred when the Access Order is expedited, the regulations and charges for Special Construction as set forth in this tariff will apply.

The Expedited Order Charge will apply on a per order, per occurrence basis, as specified in Section 12.1.4.

3.2.3 Cancellation of an Access Service Request

A Customer may cancel an Access Services Request for the installation of Switched Access Service at any time prior to notification by the Company that service is available for the Customer's use. The cancellation date is the date the Company receives written or verbal notice from the Customer that the order is to be canceled. The verbal notice must be followed by written confirmation within ten (10) days. A Customer may negotiate an extension of a service date of an Access Service Request for installation of new service or rearrangement of existing service, in which case a Service Date Change Charge will apply. However, the new service date cannot exceed the originally established service date by more than 30 calendar days. On the 31st day beyond the original service date, the Access Services Request will be canceled and the appropriate Cancellation Charge will be applied. (T)

Except as specified herein, Cancellation Charges will apply as specified in Section 12.1.5.

If the cancellation occurs prior to the Company's receiving the Access Service Request, no charges shall apply. (T)

If the Company misses a service date for a Standard or Negotiated Interval Access Order by more than 30 days due to circumstances such as acts of God, governmental requirements, work stoppages and civil commotion, the Company shall not be liable for such delay and the Customer may cancel the Access Service Request without incurring cancellation charges. (T)

3.2.4 Minimum Period of Service

The minimum period for which Access Service is provided and for which charges are applicable is one month.

ACCESS SERVICE

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

4.2.3.D. Common Channel Signaling/Signaling System 7 Network Connection Service

Common Channel Signaling/Signaling System 7 Network Connection Service, which is available with Feature Group C and D, where technically feasible provides a signaling path between a customer’s designated Signaling Point of Interface and a Signaling Transfer Point. This service provides customers with the use of a two-way signaling path for accessing information necessary for the completion of their end user’s calls. (T)

Common Channel Signaling/Signaling System 7 Networks Connection Service is comprised of two parts; a Signaling Network Access Link (consisting of Signaling Mileage Facility, Signaling Mileage Termination and Signaling Entrance Facility) and a Signaling Transfer Point Port. The Signaling Network Access Link is provided as a dedicated 56 kbps out-of-band signaling connection between the customer’s Signaling Point of Interface and the Signaling Transfer Point Port on the Signaling Transfer Point. (T)

The Common Channel Signaling/Signaling System 7 Networks Connection Service is provisioned by a mated pair of Signaling Transfer Points as described in Technical Reference TR-TSV 000905 in order to ensure networks availability and reliability. The Telephone Company shall not be held liable for service outages if the customer employs technology related to the interconnection of signaling networks that do not adhere to generally accepted industry technical standards.

When Common Channel Signaling/Signaling System 7 Network Connection service is provisioned for use with SS7 Signaling, interconnection between signaling networks must occur at an Signaling Transfer Point.

Rates and charges for the Common Channel Signaling/Signaling System 7 Network Connection Signaling Transfer Point Ports and Signaling Network Access Links are contained in 12.2.4 following.

ACCESS SERVICE

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

4.2.4 Descriptions and Application of Rate

4.2.4.A Recurring Rates

4.2.4.A.(1) Usage Rates for Switched Access Service are rates that apply on a per access minute or a per call basis. Access minute charges and per call charges are accumulated over a monthly period.

4.2.4.A.(2) Flat Rates for Switched Access Service are rates that apply on a per month per rate element basis.

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ACCESS SERVICE

4. SWITCHED ACCESS SERVICE (Cont'd)

4.2 Provision and Description of Switched Access Service Arrangements (Cont'd)

4.2.5 Billing Validation Service

The Company shall arrange to have its billing validation data stored in one of the existing Line Information Databases. It will be the responsibility of the Customer to identify this database through established industry procedures, and to query the billing validation data in the Line Information Databases. Based on the received query information, the Line Information Databases will respond with an SS7 formatted confirmation of validity or denial for the requested billing option. Access in Line Information Databases provides Customers with potential toll fraud detection. (T)

The Line Information Databases will contain a record for every working line number and Billed Number Group served by the Company. (T)

The Company will update the Line Information Databases information on a daily basis. (T)

Line Information Databases service is provided on an on-line, call-by-call basis. Company data accessed from the Line Information Databases shall remain the sole property of the Company, and may not be stored or reproduced by the Customer for any reason.

The Company will have procedures in place to deactivate billing validation data in the event that it is being used fraudulently.

4.2.6 Acceptance Testing

At no additional charge, the Company will, at the Customer's request, cooperatively test, at the time of the installation, the following parameters: loss, C-notched noise, C-message noise, 3-tone slope, d.c. continuity and operational signaling.

4.2.7 Ordering Options and Conditions

Access Service is ordered under the Access Order provisions set forth in Section 3.2.

ACCESS SERVICE**9. SPECIAL ACCESS SERVICE (Cont'd)**9.4 Metallic Service9.4.1 Basic Channel Description

A Metallic channel is an unconditioned two-wire channel arranged to transmit direct current and capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

Metallic Special Access Services are typically used for applications such as alarm, pilot wire protective relaying, and dc tripping protective relaying. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Metallic Service are as set forth in 12.6.2 following.

9.4.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies Inc. (T)

9.4.3 Optional Features and FunctionsCentral Office Bridging Capability

9.4.3.A Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer designated premises.

9.4.3.B Series Bridging of up to 26 customer designated premises.

Technical Publication TR-NPL-000336 sets forth the technical specifications packages with which the optional features and functions are available.

ACCESS SERVICE

9. SPECIAL ACCESS SERVICE (Cont'd)

9.5 Telegraph Grade Service

9.5.1 Basic Channel Description

Telegraph Grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half- duplex or duplex operation. Telegraph Grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

Telegraph Grade Special Access Services are typically Used for applications such as teletypewriter, telegraph grade control/remote metering, telegraph grade channel, telegraph grade extension, and telegraph grade entrance facilities. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Telegraph Grade Service are as set forth in 12.6.3 following.

9.5.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

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9.5.3 Optional Features and Functions

Telegraph Bridging (two-wire and four-wire)

Technical Publication TR-NPL-000336 sets forth the technical specifications packages with which the optional features and functions are available.

ACCESS SERVICE

9. SPECIAL ACCESS SERVICE (Cont'd)

9.6 Voice Grade Service

9.6.1 Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated as two-wire or four-wire. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company hub or hubs, or between a customer designated premises and a WATS Serving Office (WSO).

Voice Grade Special Access Services are typically used For voice and voiceband data applications. Typical examples of voice grade circuits are Foreign Exchange lines (station end only), multipoint private line, voice trunk type, two-point voice grade data (one-way or simultaneous two-way), multipoint voice grade data, and voice grade telephoto or facsimile. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Voice Grade Service are as set forth in 12.6.4 following.

9.6.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in Technical Publication TR-TSY-000335 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

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9.6.3 Optional Features and Functions

9.6.3.A Central Office Bridging Capability

- 9.6.3.A(1) Voice Bridging (two-wire and four-wire)
- 9.6.3.A(2) Data Bridging (two-wire and four-wire)
- 9.6.3.A(3) Telephoto Bridging (two-wire and four-wire)
- 9.6.3.A.(4) DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports

ACCESS SERVICE

9. SPECIAL ACCESS SERVICE (Cont'd)

9.6 Voice Grade Service (Cont'd)

9.6.3 Optional Features and Functions (Cont'd)

9.6.3.F Signaling Capability

Signaling Capability provides for the ability to transmit signals from one customer premises to another customer premises on the same service. The rate for this option is set forth in 12.6.4(C)(6) following.

Technical Publication TR-TSY-000335 contains network channel interfaces for which Voice Grade service do not require signaling capability. A comprehensive list of specific Network Channel Interface codes can be obtained from Telcordia Technologies, Inc. (T)

Technical Publication TR-TSY-000335 contains network channel interfaces for which Voice Grade service require signaling capability. The signaling capability charge will not apply when used in the provision of WATS access service.

9.6.3.G Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service. The rate for this option is set forth in 12.6.4(C)(7) following.

ACCESS SERVICE

9. SPECIAL ACCESS SERVICE (Cont'd)

9.6 Voice Grade Service (Cont'd)

9.6.3 Optional Features and Functions (Cont'd)

9.6.3.H Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of an access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to another channel that terminates in either the same or a different customer premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option. The rate for this option is set forth in 12.6.4(C)(8) following.

9.6.3.I Public Packet Switching Network Interface Arrangement

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An arrangement that provides the interface requirements that permit a Voice Grade service to interface with a Public Packet Switching Network packet switch located in a Telephone Company premises. The interface is compatible with X.25 and X.75 packet switching protocols as defined by the CCITT. This option is provided on an Individual Case Basis as set forth in 12.6.4(C)(9) following.

9.6.3.J Four-Wire/Two-Wire Conversions

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The customer will be charged the four-wire Channel Termination rate as set forth in 12.6.4(A) following when an effective four-wire is specified in the order for service. The rate for the conversion is included as part of the basic four-wire Channel Termination rate.

ACCESS SERVICE

9. SPECIAL ACCESS SERVICE (Cont'd)

9.7 Program Audio Service

9.7.1 Basic Channel Description

A Program Audio channel is a channel with bandwidth measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

Program Audio Special Access services are typically used in full-time and part-time applications for radio broadcasting, noncommercial educational audio, and wired music. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Program Audio Service are as set forth in 12.6.5 following.

9.7.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies, Inc. (T)

9.7.3 Optional Features and Functions

9.7.3.A Central Office Bridging Capability

Distribution Amplifier

9.7.3.B Gain Conditioning

Control of 1004 Hz AML at initiation of service to 0 dB \square 0.5 dB.

ACCESS SERVICE

9. SPECIAL ACCESS SERVICE (Cont'd)

9.8 Video Service

9.8.1 Basic Channel Description

A Video channel is a channel with one-way transmission capability for a standard 525 line/60 field monochrome, or National Television Systems Committee color, video signal and one or two associated 5 or 15 kHz audio signal(s). The associated audio signal(s) may be either diplexed or provided as one or two separate channels. The provision and the bandwidth of the associated audio signal(s) is a function of the channel interface selected by the customer. Video channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

Rates and charges for Special Access Video Service are as set forth in 12.6.6 following.

9.8.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

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ACCESS SERVICE

9. SPECIAL ACCESS SERVICE (Cont'd)

9.9 Digital Data Service

9.9.1 Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56.0 or 64.0* Kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are provided as either hubbed or non-hubbed services between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs. The hubs providing hubbed digital service and the wire centers providing non-hubbed digital service are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., WIRE CENTER INFORMATION, TARIFF F.C.C. NO. 4.

The customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises.

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Rates and charges for Special Access Digital Data Service are as set forth in 12.6.7 following.

9.9.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

(T)

* When 64.0 Kbps service is multiplexed on a DS1 High Capacity service, the DS1 must be equipped to provide Clear Channel Capability.

ACCESS SERVICE

9. SPECIAL ACCESS SERVICE (Cont'd)

9.10 High Capacity Service (Cont'd)

9.10.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

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The following bit rates are available for a High Capacity channel:

<u>Bit Rate</u>
1.544 Mbps
274.176 Mbps
3.152 Mbps
44.736 Mbps
6.312 Mbps

* A 64.0 Kbps channel is available as a channel(s) of a 1.544 Mbps channel to a Telephone Company hub.

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9. SPECIAL ACCESS SERVICE (Cont'd)

9.10 High Capacity Service (Cont'd)

9.10.3 Optional Features and Functions (Cont'd)

9.10.3.C Central Office Multiplexing (Cont'd)

9.10.3.C(7) DS0 to Subrate

An arrangement that converts a 64.0 Kbps channel to subspeeds of up to twenty 2.4 Kbps, ten 4.8 Kbps, or five 9.6 Kbps channels using digital time division multiplexing.

The table set forth in 15.2.1(G) following shows the technical specifications packages with which the optional features and functions are available.

9.10.3.D Clear Channel Capability

9.10.3.D(1) Clear Channel Capability is an arrangement that allows a customer to transport 1.536 Mbps information rate signals over a 1.544 Mbps High Capacity channel or over a 1.544 Mbps High Capacity channel derived from a multiplexed 44.736 Mbps High Capacity channel with no constraint on the quantity or sequence of one and zero bits. This arrangement requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code as described in Technical Reference TR-NPL-000054 and Technical Reference TR-INS-000342. (T)

9.10.3.D(2) Clear Channel Capability is provided, subject to availability of facilities, on DS1/1.544 Mbps High Capacity channels between two customer designated premises and on multiplexed DS3/44.736 Mbps High Capacity channels or multiplexed DS1/1.544 Mbps High Capacity channels* between a Telephone Company hub office and a customer designated premises. The wire centers providing CCC are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., WIRE CENTER INFORMATION, TARIFF F.C.C. NO. 4. (T)

* Available only on a DS1-to-Digital multiplexed configuration.

ACCESS SERVICE

9. SPECIAL ACCESS SERVICE (Cont'd)

9.10 High Capacity Service (Cont'd)

9.10.3 Optional Features and Functions (Cont'd)

9.10.3.E Shared SONET Ring Interoffice Transport

9.10.3.D(3) The Clear Channel Capability optional feature may be ordered at the same time the High Capacity service is ordered or it may be ordered as an addition to an existing High Capacity Service. The customer must agree to out-of-service periods required to add this feature to an existing High Capacity Service. The charges for the Clear Channel Capability optional feature are as set forth in 9.2.2(C)(3) preceding. (M)

9.10.3.E(1) Shared SONET Ring Interoffice Transport (SSRIT) is a non-chargeable optional feature which provides interoffice transmission of a DS3 High Capacity Service over a SONET-based facility deployed in a ring configuration. Shared SONET Ring Interoffice Transport provides increased reliability and functionality using a self-healing ring topology designed to continually monitor service quality, detect any failure within the system, and automatically self-heal within 50 milliseconds around the point of failure by switching to a protect path to ensure the flow of services between locations within the self-healing ring. (T)

9.10.3.E(2) Shared SONET Ring Interoffice Transport is provided for the interoffice portion of DS3 High Capacity Service, subject to availability of SONET ring facilities. The wire centers offering Shared SONET Ring Interoffice Transport are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., WIRE CENTER INFORMATION, TARIFF F.C.C. NO. 4.

9.10.3.E(3) The Shared SONET Ring Interoffice Transport optional feature may be ordered at the same time the DS3 High Capacity service is ordered or it may be ordered as an addition to an existing DS3 High Capacity Service. The customer must agree to out-of-service periods required to add this feature to an existing DS3 High Capacity Service. The charges for the Shared SONET Ring Interoffice Transport optional feature are as set forth in 9.2.2.(C)(3) preceding.

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9. SPECIAL ACCESS SERVICE (Cont'd)

9.11 Synchronous Optical Channel Service

9.11.1 Basic Channel Description (Cont'd)

Synchronous Optical Channel Service is available at the wire centers as identified in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

Rates and charges for Synchronous Optical Channel Service are as set forth in 12.6.9 following.

9.11.2 Network Channel Interfaces

Compatible channel interfaces for Synchronous Optical Channel Service are as set forth in Technical Publication GR-253-CORE. A comprehensive list of specific Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

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The following bit rates are available for a synchronous optical channel:

Bit Rate
155.52 Mbps (OC3, OC3c)
622.08 Mbps (OC12)

ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service

This section lists the applicable technical references inclusive of the codes that the customer must specify when ordering Special Access Service, Switched Access Entrance Facilities, and Voice Grade and High Capacity Direct Trunked Transport. These codes provide a standardized means to relate the services being ordered to Special Access Service offerings contained in Section 9 preceding.

When ordering, the type of Special Access Service or Switched Access Entrance Facility or Direct Trunked Transport is described by two code sets, the Network Channel code and the Network Channel Interface codes.

The Network Channel code consists of two elements. Element one is a Channel Service Code (character positions 1 and 2) that describes the channel service type in an abbreviated form. Element two is an Optional Feature Code (character positions 3 and 4) that identifies option codes available for each channel service code, such as C-conditioning or Improved Return Loss.

The Network Channel Interface is used to identify interface specifications associated with a particular channel. This code describes the total wires, protocol, impedance, protocol options and transmission level point(s) reflecting physical and electrical characteristics between the Telephone Company and the customer.

Common language codes including Network Channel and Network Channel Interface codes are trademarks of Telcordia Technologies, Inc. and comprehensive lists of allowed Network Channel and Network Channel Interface codes can be obtained from Telcordia Technologies, Inc. However, not all services contained in this Special Report may be offered by the Telephone Company at this time.

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ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service (Cont'd)

11.2.1 Network Channel Codes

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In order to determine the Network Channel code appropriate for the service to be ordered, the type of Special Access Service the customer wishes must be identified. This identification is accomplished by a Service Designator code. The broad categories of Service Designator codes are set forth in Section 9 preceding. Variations within service type are described in the various Technical Publications cited in 11.2.1.A through 11.2.1.H following.

Having determined the specific service type to be ordered and its Service Designator code, and having used the appropriate Technical Publication, the customer should match the Service Designator code to the Network Channel code using the appropriate technical reference. Once the Network Channel code has been determined, the Network Channel Interface code may be developed using the information set forth in the specified technical reference.

11.2.1.A Technical Specifications Packages Metallic Service

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies Inc.

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ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service (Cont'd)

11.2.1 Network Channel Codes (Cont'd)

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11.2.1.B Technical Specifications Packages Telegraph Grade Service

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

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ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service (Cont'd)

11.2.1 Network Channel Codes (Cont'd)

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11.2.1.C Technical Specifications Packages Voice Grade Service

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

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ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service (Cont'd)

11.2.1 Network Channel Codes (Cont'd)

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11.2.1.C Technical Specifications Packages Voice Grade Service (Cont'd)

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ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service (Cont'd)

11.2.1 Network Channel Codes (Cont'd)

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11.2.1.D Technical Specifications Packages Program Audio Service

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

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ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service (Cont'd)

11.2.1 Network Channel Codes (Cont'd)

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11.2.1.E Technical Specifications Packages Video Service

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

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ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service (Cont'd)

11.2.1 Network Channel Codes (Cont'd)

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11.2.1.E Technical Specifications Packages Video Service (Cont'd)

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ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service (Cont'd)

11.2.1 Network Channel Codes (Cont'd)

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11.2.1.F Technical Specifications Packages Digital Data Service

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

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ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service (Cont'd)

11.2.1 Network Channel Codes (Cont'd)

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11.2.1.G Technical Specifications Packages High Capacity Service

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

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ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service (Cont'd)

11.2.1 Network Channel Codes (Cont'd)

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11.2.1.H Technical Specifications Packages Synchronous Optical Channel Service

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and a comprehensive list of Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

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ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service (Cont'd)

11.2.2 Network Channel Interface Codes

The electrical interface with the Telephone Company for Special Access Services, is defined by an interface code. There are interface codes for both the customer designated premises and the point of termination. A comprehensive list of specific Network Channel Interface codes can be obtained from Telcordia Technologies, Inc.

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ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service (Cont'd)

11.2.2 Network Channel Interface Codes (Cont'd)

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11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS (Cont'd)

11.2 Special Access Service (Cont'd)

11.2.2 Network Channel Interface Codes (Cont'd)

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ACCESS SERVICE

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11.2.2 Network Channel Interface Codes (Cont'd)

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