

ACCESS SERVICE

Rates, Terms and Conditions
applying to the provision of intrastate access
and point to point service within the State of South Carolina
by HTC Communications, Inc.

Access Services are provided by means of wire, fiber optics, radio or any other suitable technology or a combination thereof.

This Tariff contains regulations and rates applicable for the furnishing of Access Services associated with the above services offered by Horry Telephone Cooperative, Inc., hereinafter referred to as HTC Communications, Inc. ("Company"), within this State. This Tariff is on file with the Public Service Commission of South Carolina.

(C)

Issued: July 23, 2013

Effective: August 15, 2013

HTC Communications, Inc.
3480 Highway 701 North
Conway, SC 29528

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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9. SPECIAL ACCESS SERVICE (Cont'd)

9.1 General (Cont'd)

9.1.2 Service Descriptions

For the purposes of ordering, there are eight categories of Special Access Service. These are:

Service Designator Codes

Metallic
Telegraph Grade
Voice
Program Audio
Video
Digital Data
High Capacity
Synchronous Optical

(C)
|
(C)

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer.

(C)

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be advised and given the opportunity to change the order.

The channel descriptions provided in 9.4 through 9.11 following, specify the characteristics of the basic channel and indicate whether the channel is provided between customer designated premises, between a customer designated premises and a Telephone Company hub where bridging or multiplexing functions are performed, between hubs, between a customer designated premises and a WATS Serving Office, or between a customer designated premises and a wire center equipped for Frame Relay Access Service.

ACCESS SERVICE

9. SPECIAL ACCESS SERVICE (Cont'd)

9.1 General (Cont'd)

9.1.2 Service Descriptions (Cont'd)

- 9.1.2.A Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. Applicable Technical References are set forth in 9.1.2.E following. (C)
- 9.1.2.B Channel interfaces at each Point of Termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible channel interfaces. Only certain channel interfaces are compatible. (C)
- 9.1.2.C Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth in 9.1.2.E following. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.
- 9.1.2.D The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Applicable Technical References are set forth in 9.1.2.E following. (C)

ACCESS SERVICE

9. SPECIAL ACCESS SERVICE (Cont'd)

9.1 General (Cont'd)

9.1.3 Service Configurations (Cont'd)

9.1.3.B Multipoint Service

Multipoint service connects three or more customer designated premises through one or more Telephone Company hubs. Only certain types of Special Access Service are provided as multipoint service. These are so designated in the descriptions for the appropriate channel.

The channel between hubs (i.e., bridging locations) on a multipoint service is a mid-link. There is no limitation on the number of mid-links available with a multipoint service. However, when more than three mid-links in tandem are provided the quality of the overall service may be degraded.

Multipoint service utilizing a customized technical specifications package, as set forth in 9.1.2 preceding will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order. (C)

When ordering, the customer will specify the desired bridging hub(s). NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of bridging functions available.

Applicable Rate Elements are:

- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable between the serving wire center for each customer designated premises and the hub and between hubs).
- Bridging
- Additional Optional Features and Functions (when applicable).

ACCESS SERVICE

9. SPECIAL ACCESS SERVICE (Cont'd)

9.4 Metallic Service

9.4.1 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 Network Channel Interface codes are set forth in Technical Publication SR-STS-000307. (C)

9.4.3 Optional Features and Functions

Central 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. (C)

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 Network Channel Interface codes are set forth in Technical Publication SR-STIS-000307.

(C)

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.

(C)

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 Network Channel Interface codes are set forth in Technical Publication SR-STS-000307.

(C)

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. Specific network channel interface codes are listed Technical Publication SR-ST-000307. (C)

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. (C)

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)

9.7 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-000337 and Network Channel Interface codes are set forth in Technical Publication SR-STS-000307.

(C)

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 □ 0.5 dB.

ACCESS SERVICE

9. SPECIAL ACCESS SERVICE (Cont'd)

9.7 Program Audio Service

9.7.3 Optional Features and Functions (Cont'd)

9.7.3.C Stereo

Provision of a pair of gain/phase equalized channels for stereo applications. (An additional Program Audio channel must be ordered separately.)

Technical Specifications Packages as set forth in Technical Publication TR-NPL-000337 shows the technical specifications packages with which the optional features and functions are available.

(C)

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-000338 and Network Channel Interface codes are set forth in Technical Publication SR-STS-000307.

(C)

(D)

(D)

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-000341 and Network Channel Interface codes are set forth in Technical Publication SR-STS-000307.

(C)

* 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)

9.9 Digital Data Service

9.9.2 Technical Specifications Packages and Network Channel Interfaces (Cont'd)

(D)

(D)

9.9.3 Optional Features and Functions

The Optional Features and Functions described in (A), (B), and (C) following are only available where Digital Data Service is provided via a hub. The Optional Features and Functions described in (D) following are available where Digital Data Service is provided on a non-hubbed basis.

9.9.3.A Central Office Bridging Capability

Bridging is not available on a 64.0 Kbps channel.

9.9.3.B Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer designated premises. This arrangement is only available at a Telephone Company designated hub. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

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9. SPECIAL ACCESS SERVICE (Cont'd)

9.9 Digital Data Service

9.9.3 Optional Features and Functions (Cont'd)

9.9.3.C Public Packet Switching Network (PPSN) Interface Arrangement

An arrangement that provides the interface requirements that permit a Digital Data 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.

Technical Specifications Packages as set forth in Technical Publication TR-NPL-000341 shows the technical specifications packages with which the optional features and functions are available. (C)

9.9.3.D Public Packet Data Service Interface Arrangement

An arrangement that provides for the interface requirements that permit a Digital Data Service to interface with a Public Packet Data switch located in a Telephone Company premises. The interface is compatible with Frame Relay packet switching protocols. The interface is only available for 56.0 kbps and 64.0 kbps rates.

Technical Specifications Packages as set forth in Technical Publication TR-NPL-000341 shows the technical specifications packages with which the optional features and functions are available. (C)

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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-000054 and Network Channel Interface codes are set forth in Technical Publication SR-STS-000307.

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

(C)
|
(C)

* 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)

9.11 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 and Network Channel Interface codes are set forth in Technical Publication SR-ST5-000307.

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

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

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ACCESS SERVICE

11. ACCESS SERVICE INTERFACES AND TRANSMISSION SPECIFICATIONS

Section 11 contains Switched Access Service Options (which are comprised of Interface Groups, Supervisory Signaling, Entry Switch Receive Level and Local Transport Termination) and Transmission Specifications.

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11.1 Switched Access Service

Ten Interface Groups are provided for terminating the Local Transport Entrance Facility at the customer's designated premises. Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.). Where transmission facilities permit, and at the option of the customer, the Entrance Facility may be provided with optional features as set forth in 11.1.1 following.

As a result of the customer's access order and the type of Telephone Company transport facilities serving the customer designated premises, the need for signaling conversions or two-wire to four-wire conversions, or the need to terminate digital or high frequency facilities in channel bank equipment may require that Telephone Company equipment be placed at the customer designated premises. For example, if a voice frequency interface is ordered by the customer and the Telephone Company facilities serving the customer designated premises are digital, then Telephone Company channel bank equipment must be placed at the customer designated premises in order to provide the voice frequency interface ordered by the customer.

11.1.1 Local Transport Interface Groups

Interface Groups are combinations of technical parameters which describe the Telephone Company handoff at the point of termination at the customer designated premises. The technical specifications concerning the available interface groups are set forth in 11.1.1.A through 11.1.1.D following.

ACCESS SERVICE

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

11.1 Switched Access Service (Cont'd)

11.1.1 Local Transport Interface Groups (Cont'd)

11.1.1.E Local Transport Optional Features (Cont'd)

- 64 Clear Channel Capability

64 Clear Channel Capability allows the customer to transport voice or data signals over a 64 Kbps channel with no constraints on the quantity or sequence of ones and zero bits. This option employs the Bipolar 8 Zero Suppression (B8ZS) technique to permit customers to use the full 64 Kbps bandwidth of a DS0 channel. It is only available in suitably equipped electronic end offices as identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF NO. 4. 64 Clear Channel Capability, as described in Technical Reference GR-334-CORE, is available with Interface Groups 6 and 9 for Feature Groups C and D with Signaling System 7 (SS7) signaling.

The Interface Groups, as described in 11.1.1.A through 11.1.1.D preceding, represent industry standard arrangements. Where transmission parameters permit, the customer may select the following optional signaling arrangements in place of the signaling arrangements standardly associated with the Interface Groups.

For Interface Groups 1 and 2 associated with FGC or FGD

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

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For Interface Group 2 associated with FGB, FGC or FGD and in addition to the preceding

SF Supervisory Signaling, or
Tandem Supervisory Signaling

For Interface Groups 3 through 5

Optional Supervisory Signaling Not Available

For Interface Groups 6 through 10

These Interface Groups may, at the option of the customer, be provided with individual transmission path SF supervisory signaling where such signaling is available in Telephone Company central offices. Generally such signaling is available only where the first point of switching provides an analog (i.e., non-digital) interface to the transport termination.

ACCESS SERVICE

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

11.1 Switched Access Service (Cont'd)

11.1.1 Local Transport Interface Groups (Cont'd)

11.1.1.E Local Transport Optional Features (Cont'd)

These optional Supervisory Signaling arrangements not available in combination with the SS7 optional feature as described in 6.8.2.C(2) preceding.

Additionally, in 11.1.1.F following, there is a matrix of available Premises Interface Codes as a function of Interface Group, Telephone Company

Switch Supervisory Signaling and Feature Group.

11.1.1.F Available Premises Interface Codes

Applicable premises interface codes which are available for each Interface Group are described in Technical Reference GR-334-CORE. Their availability is a function of the Telephone Company switch supervisory signaling and Feature Group.

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ACCESS SERVICE

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

11.1 Switched Access Service (Cont'd)

11.1.1 Local Transport Interface Groups (Cont'd)

11.1.1.F Available Premises Interface Codes (Cont'd)

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

11.1 Switched Access Service (Cont'd)

11.1.1 Local Transport Interface Groups (Cont'd)

11.1.1.F Available Premises Interface Codes (Cont'd)

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ACCESS SERVICE

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

11.1 Switched Access Service (Cont'd)

11.1.2 Standard Transmission Specifications

Descriptions of the transmission specifications available with each Feature Group as a function of the Interface Group selected by the customer, are set forth in 11.1.2.A through 11.1.2.D following. Descriptions of each of these Standard Transmission Specifications and the two Data Transmission Parameters mentioned are set forth respectively in 11.1.2.E through 11.1.2.G and 11.1.3.A and 11.1.3.B following:

11.1.2.A Feature Group A

FGA is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Data stream data transmission parameters are provided with FGA to the first point of switching. (C)

11.1.2.B Feature Group B

FGB is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the end office when routed directly or to the first point of switching when routed via an access tandem. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Data stream data transmission parameters are provided with FGB to the first point of switching. (C)

ACCESS SERVICE

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

11.1 Switched Access Service (Cont'd)

11.1.2 Standard Transmission Specifications (Cont'd)

11.1.2.C Feature Group C

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

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

Type C Transmission Specifications are provided with Interface Group 1 when routed directly to an end office. Type B is provided with Interface Groups 2 through 10, whether routed directly to an end office or to an access tandem.

Data stream data transmission parameters are provided with FGC for the transmission path between the customer designated premises and the end office when directly routed to the end office, and between the customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

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ACCESS SERVICE

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

11.1 Switched Access Service (Cont'd)

11.1.2 Standard Transmission Specifications (Cont'd)

11.1.2.D Feature Group D

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

- When routed 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.

Data stream data transmission parameters are provided with FGD for the transmission path between the customers designated premises and the end office when directly routed to the end office. Data stream data transmission parameters are provided for the transmission path between the customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

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11.1.2.E Type A Transmission Specifications

Type A Transmission Specifications is provided with the following parameters:

11.1.2.E(1) Loss Deviation

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

ACCESS SERVICE

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

11.1 Switched Access Service (Cont'd)

11.1.2 Standard Transmission Specifications (Cont'd)

11.1.2.G Type C Transmission Specifications (Cont'd)

11.1.2.G(5) Echo Control

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

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

11.1.3 Data Transmission Parameters

Two types of Data Transmission Parameters are provided for the Feature Group arrangements. Data stream in VF at the customer's point of termination is provided with Feature Groups A, B and C and also with Feature Group D when Feature Group D is directly routed to the end office. Data stream in VF at the customer's point of termination is only provided with Feature Group D and only when routed via an access tandem. Following are descriptions of each.

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11.1.3.A Data Transmission Parameters Type DA

11.1.3.A(1) Signal to C-Notched Noise Ratio

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

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.

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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 (NC) code and the Network Channel Interface (NCI) codes.

The Network Channel (NC) 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 (NCI) 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 (NC) and Network Channel Interface (NCI) codes are trademarks of Telcordia Technologies and comprehensive lists of allowed Network Channel (NC) and Network Channel Interface (NCI) codes are contained in Special Report SR-ST5-000307. However, not all services contained in this Special Report may be offered by the Telephone Company at this time.

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

11.2 Special Access Service (Cont'd)

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11.2 Special Access Service (Cont'd)

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

11.2 Special Access Service (Cont'd)

11.2.1 Network Channel (NC) Codes

In order to determine the NC 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 (SD) 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.

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

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11.2.1.A Technical Specifications Packages Metallic Service

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and Network Channel Interface codes are set forth in Technical Publication SR-STS-000307.

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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 (NC) Codes (Cont'd)

11.2.1.B Technical Specifications Packages Telegraph Grade Service

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000336 and Network Channel Interface codes are set forth in Technical Publication SR-STS-000307.

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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 (NC) Codes (Cont'd)

11.2.1.C Technical Specifications Packages Voice Grade Service

Technical Specifications Packages are set forth in Technical Publication TR-TSY-000335 and Network Channel Interface codes are set forth in Technical Publication SR-STS-000307.

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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 (NC) Codes (Cont'd)

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

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11.2 Special Access Service (Cont'd)

11.2.1 Network Channel (NC) Codes (Cont'd)

11.2.1.D Technical Specifications Packages Program Audio Service

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000337 and Network Channel Interface codes are set forth in Technical Publication SR-STS-000307.

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11.2 Special Access Service (Cont'd)

11.2.1 Network Channel (NC) Codes (Cont'd)

11.2.1.E Technical Specifications Packages Video Service

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000338 and Network Channel Interface codes are set forth in Technical Publication SR-STS-000307.

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

11.2 Special Access Service (Cont'd)

11.2.1 Network Channel (NC) Codes (Cont'd)

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

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11.2 Special Access Service (Cont'd)

11.2.1 Network Channel (NC) Codes (Cont'd)

11.2.1.F Technical Specifications Packages Digital Data Service

Technical Specifications Packages are set forth in Technical Publication TR-NPL-000341 and Network Channel Interface codes are set forth in Technical Publication SR-STS-000307.

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

11.2 Special Access Service (Cont'd)

11.2.1 Network Channel (NC) Codes (Cont'd)

11.2.1.H Technical Specifications Packages Synchronous Optical Channel Service

Technical Specifications Packages are set forth in Technical Publication GR-1374-CORE and Network Channel Interface codes are set forth in Technical Publication SR-STS-000307.

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11.2 Special Access Service (Cont'd)

11.2.2 Network Channel Interface (NCI) 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. Network Channel Interface codes are set forth in Technical Publication SR-STIS-000307.

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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 (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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11.2.2 Network Channel Interface (NCI) Codes (Cont'd)

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

11.3 Directory Access Service

11.3.1 Interface Group and Premise Interface Codes

When Directory Access Service is combined with Feature Group C or D Switched Access Service, the Premises Interface Code for the combination will be the available Premises Interface Code provided for the Feature Group C or D Switched Access Service ordered by the customer.

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When Directory Access Service is provided as a separate trunk group (not in combination with Switched Access Service) Interface Groups 2 through 10 as set forth in 11.1.1 preceding are available.

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ACCESS SERVICE

12. RATES AND CHARGES (Cont'd)

12.7 Other Services

12.7.1 Reserved for Future Use

12.7.1.A Deleted

(D)

(D)

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12. RATES AND CHARGES (Cont'd)

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12. RATES AND CHARGES (Cont'd)

12.7 Other Services (Cont'd)

12.7.1 Reserved for Future Use

(D)



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PRICE LIST

Rate Element	Section	Current Rate	Nonrecurring Charge
Synchronous Optical Channel Service (Cont'd)			
Add/Drop Multiplexing			
Central Office Port, Per Port			
OC3/OC3c, 155.52 Mbps	12.6.9.E.(2)	\$ 150.00	
DS3, 44.736 Mbps	12.6.9.E.(2)	\$ 100.00	
DS1, 1.544 Mbps	12.6.9.E.(2)	\$ 40.00	
Public Packet Data Network – Frame Relay			
Frame Relay Access Connection (FRAC), Per FRAC			
56.0 kbps	12.7.1.A.(1)	Deleted	Deleted (D)
64.0 kbps	12.7.1.A.(1)	Deleted	Deleted
1.544 Mbps	12.7.1.A.(1)	Deleted	Deleted
Frame Relay Inter-network Connection (FRIC), Per FRIC			
1.544 Mbps	12.7.1.A.(2)	Deleted	Deleted
End User Port (Per Port)			
56.0 kbps	12.7.1.A.(3)	Deleted	Deleted
64.0 kbps	12.7.1.A.(3)	Deleted	Deleted
1.544 Mbps	12.7.1.A.(3)	Deleted	Deleted
Inter-network Customer Port (Per Port)			
	12.7.1.A.(4)	Deleted	Deleted
Term Discounts			
36 Months	12.7.1.A.(5)	Deleted	Deleted
60 Months	12.7.1.A.(5)	Deleted	Deleted (D)

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PRICE LIST

Rate Element	Section	Current Rate	Nonrecurring Charge
Public Packet Data Network - Frame Relay (Cont'd)			
Permanent Virtual Connections (PVCs)			
Standard			
8 kbps	12.7.1.A.(6)(a)	Deleted	
16 kbps	12.7.1.A.(6)(a)	Deleted	
28 kbps	12.7.1.A.(6)(a)	Deleted	
32 kbps	12.7.1.A.(6)(a)	Deleted	
56 kbps	12.7.1.A.(6)(a)	Deleted	
64 kbps	12.7.1.A.(6)(a)	Deleted	
128 kbps	12.7.1.A.(6)(a)	Deleted	
192 kbps	12.7.1.A.(6)(a)	Deleted	
256 kbps	12.7.1.A.(6)(a)	Deleted	
384 kbps	12.7.1.A.(6)(a)	Deleted	
512 kbps	12.7.1.A.(6)(a)	Deleted	
768 kbps	12.7.1.A.(6)(a)	Deleted	
Extended			
8 kbps	12.7.1.A.(6)(b)	Deleted	
16 kbps	12.7.1.A.(6)(b)	Deleted	
28 kbps	12.7.1.A.(6)(b)	Deleted	
32 kbps	12.7.1.A.(6)(b)	Deleted	
56 kbps	12.7.1.A.(6)(b)	Deleted	
64 kbps	12.7.1.A.(6)(b)	Deleted	
128 kbps	12.7.1.A.(6)(b)	Deleted	
192 kbps	12.7.1.A.(6)(b)	Deleted	
256 kbps	12.7.1.A.(6)(b)	Deleted	
384 kbps	12.7.1.A.(6)(b)	Deleted	
512 kbps	12.7.1.A.(6)(b)	Deleted	
768 kbps	12.7.1.A.(6)(b)	Deleted	
PVC Installation Charge	12.7.1.A(7)		Deleted
PVC Rearrangement Charge	12.7.1.A(8)		Deleted

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