

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

ISSUED: October 1, 2014
BY: President
Richmond, Virginia

Section 5
Second Revised Contents Page 1
Cancels First Revised Contents Page 1
EFFECTIVE: October 31, 2014

TABLE OF CONTENTS

	<u>Page No.</u>
5. <u>SPECIAL ACCESS</u>	1
5.1 <u>General</u>	1
5.1.1 Rate Elements	1
5.1.2 Special Access Configurations	5
5.1.3 Special Facilities Routing	7
5.1.4 Design Layout Report	7
5.1.5 Acceptance Testing	7
5.1.6 Ordering Conditions	8
5.2 <u>Description of Special Access</u>	9
5.2.1 Voiceband	10
5.2.2 (Reserved for Future Use)	10
5.2.3 (Reserved for Future Use)	10
5.2.4 (Reserved for Future Use)	11
5.2.5 (Reserved for Future Use)	11
5.2.6 (Reserved for Future Use)	11
5.2.7 High Capacity Digital	11
5.2.8 (Reserved for Future Use)	12
5.2.9 Digital Data Service	12
5.2.10 Miscellaneous Special Access Services	12
5.3 <u>Description of Terminating Options</u>	13
5.3.1 (Reserved for Future Use)	13
5.3.2 Voice Grade	13
5.3.3 (Reserved for Future Use)	14
5.3.4 (Reserved for Future Use)	15
5.3.5 (Reserved for Future Use)	15
5.3.6 High Capacity Digital	15
5.3.7 Digital Data Service (DDS)	15
5.4 <u>Description of Supplemental Features</u>	16
5.4.1 Bridging	16
5.4.2 Conditioning Arrangements - Data	17
5.4.3 (Reserved for Future Use)	18
5.4.4 Signaling Arrangements	18
5.4.5 Echo Control	19
5.4.6 Improved Return Loss	20
5.4.7 Voiceband Facility Switching Arrangement	20
5.4.8 Automatic Protection Switch	20
5.4.9 Improved Termination Option	20
5.4.10 Improved Equal Level Echo Path Loss Option - ELEPL-2	21
5.4.11 Digital Data Service Secondary Channel	21
5.5 <u>Description of Multiplexing Arrangements</u>	21
5.6 <u>Rate Regulations</u>	23
5.6.1 Types of Rates and Charges	23
5.6.2 Minimum Periods	33
5.6.3 Mileage Measurement	33
5.6.4 Moves	33
5.6.5 Rates and Charges on an Individual Case Basis	34
5.6.6 Hub Wire Centers	35
5.6.7 Shared Use Analog and Digital High Capacity Services	36
5.6.8 (Reserved for Future Use)	37

(C)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

Section 5
First Revised Contents Page 2
Cancels Original Contents Page 2
EFFECTIVE: December 19, 2013

TABLE OF CONTENTS

Page No.

5.	<u>SPECIAL ACCESS (Continued)</u>	
5.6	<u>Rate Regulations (Continued)</u>	
5.6.9	(Reserved for Future Use)	37
5.6.10	(Reserved for Future Use)	38
5.6.11	(Reserved for Future Use)	38
5.6.12	Optional Payment Plan (OPP)	38
5.6.13	(Reserved for Future Use)	43
5.6.14	(Reserved for Future Use)	43
5.6.15	(Reserved for Future Use)	43
5.6.16	MetroLAN Special Transport	43
5.7	<u>Rates and Charges</u>	44
5.7.1	Nonrecurring Charges	44
5.7.2	Voiceband Facilities	44
5.7.3	(Reserved for Future Use)	45
5.7.4	(Reserved for Future Use)	46
5.7.5	Digital Data Service Facilities	46
5.7.6	Multiplexing Arrangements	47
5.7.7	High Capacity Digital DS1 (1.544 Mbps) Facilities	47
5.7.8	(Reserved for Future Use)	48
5.7.9	High Capacity Digital FT1 Facilities	49
5.8	<u>Miscellaneous Special Access Services</u>	51
5.8.1	Clear Channel Capability	51
5.9	<u>Individual Case Basis Rates and Charges</u>	51

(C)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 1

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS

5.1 General

Special Access provides a transmission path to connect CDLs* within a LATA for Intrastate Telecommunications. Special Access provided to a customer may be connected directly to customer facilities, through Telephone Company Hub Wire Centers where bridging or multiplexing functions are performed, and/or may be connected to access facilities of another telephone company or companies in the joint provision of Special Access Service as well as may be connected to Switched Access as set forth in Section 4.

The provision of Switched Access and Special Access in combination is

normally for, but not limited to, the use of WATS or WATS-type Access. When Special Access is connected to Switched Access, the terms, conditions and rates for the facilities between the end user's CDL and the WATS Serving Office are as set forth in this section of the tariff; the terms, conditions and rates for the facilities between the WATS Serving Office and the IC's CDL, as well as the switching functionalities (e.g., end user access codes, screening) are as set forth in Section 4 of this tariff.

Special Access can be provided in either analog or digital format. Analog formats are differentiated by spectrum and bandwidth. Digital formats are differentiated by bit rate. The specific types of Special Access (e.g., Voiceband, Digital Data Service) provided are described in 5.2 following.

5.1.1 Rate Elements

There are five basic rate elements which apply to Special Access Service:

- Special Transport (described in 5.1.1(B) following)
- Special Transport Termination (described in 5.1.1(G) following)
- Special Access Line (described in 5.1.1(C) following)
- Supplemental Features (described in 5.4 following)
- Multiplexing Arrangements (described in 5.5 following)

(A) (Reserved for Future Use)

(B) Special Transport

(1) The Special Transport rate element provides for the transmission facilities between the serving wire centers associated with two CDLs, between a serving wire center associated with an end user's CDL and a WATS Serving Office, between a serving wire center associated with a CDL and a Telephone Company Hub Wire Center or between two Telephone Company Hub Wire Centers.

The Special Transport element is distance sensitive, except for MetroLAN, and varies with type of capability (i.e., analog or digital) and type of facility (e.g., Voiceband, Digital Data Service, etc.). Special Transport may be provided by more than one telephone company. The method of calculating applicable airline miles for rating purposes for Special Access is specified in 2.7 preceding.

* Telephone Company Centrex CO-like switches are considered to be CDLs for the purposes of this tariff.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 2

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.1 General (Continued)

5.1.1 Rate Elements (Continued)

(B) Special Transport (Continued)

(1) (Continued)

MetroLAN Transport provides flat rate non-distance sensitive transport for DS1 bandwidth on fiber optic rings. The rate element associated with MetroLAN is a monthly recurring charge as set forth in 5.7.7(B).

- (2) Special Transport may be used in conjunction with Switched Access for the purpose of provisioning Originating Only, Terminating Only or Combined Originating/Terminating Access as set forth in 4.2.5(V). Special Transport employed in this manner provides the FIA for the closed-end of the services between the wire center serving the end user's CDL where WATS Serving Office functions are not available and the WATS Serving Office.

When the necessary WATS Serving Office functions are not provided at the wire center which serves the end user's CDL, the Telephone Company will designate the wire center where the WATS Serving Office functions are available.

(C) Special Access Line (SAL)

- (1) A Special Access Line provides the transmission facilities to a Customer Designated Location (CDL) or the facilities between a CDL and the serving wire center. This rate element varies by type of capability (i.e., analog or digital) and type of facility (e.g., Voiceband, Digital Data Service, etc.).

When a Voiceband Special Access service is ordered to be terminated at a customer's designated Interexchange Carrier's all-digital CDL which requires a minimum digital interface level of 1.544 Mbps, the Telephone Company will provide the required interface and assess the customer a Voiceband SAL, for the facility between the all-digital CDL and its serving wire center. All other appropriate charges apply in addition to the Voiceband SAL.

Installation of DS1 SALs is as set forth in 5.6.1(D)(3). The applicable rates are the nonrecurring charge and monthly rate set forth per DS1 SAL installed.

The selection of a Terminating Option, as defined in 5.3, is required for terminating the network portion of a Special Access Line at a CDL. Terminating Options provide a clearly delineated interface which facilitates the design, isolation, and testing of the Special Access.

One Special Access Line charge applies per CDL at which the facility is terminated. This charge applies even if the facilities to the CDL do not transit a serving wire center; this charge also applies if the CDL and the serving wire center are co-located in a Telephone Company building. The Special Access Line charge used with a Switching Interface, as set forth in (2) below, is applicable only for the transmission facilities between the end user's CDL and the serving wire center of that location.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 3
Cancels Original Page 3
EFFECTIVE: December 10, 2005

ISSUED: November 10, 2005

BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.1 General (Continued)

5.1.1 Rate Elements (Continued)

(C) Special Access Line (SAL) (Continued)

- (2) A Special Access Line may be provided in conjunction with FGA, FGB, FGC and FGD Switched Access Service for the purpose of Originating Only, Terminating Only or Combined Originating and Terminating Access as set forth in 4.2.1. A Switching Interface is required for the provision of this service as set forth in 4.2.5(V). The Special Access Line provides the closed-end of the dedicated facilities between an end user's CDL and its serving wire center. This serving wire center may or may not be a WATS Serving Office. In those instances when the serving wire center is not a WATS Serving Office Special Transport is applicable as set forth in 5.1.1(B) to the nearest Telephone Company WATS Serving Office.

The Switched Access used in conjunction with the Special Access Line provides various standard switching functionalities and optional arrangements as set forth in Section 4.2.5(V).

All Special Access Lines used with a Switching Interface are:

- provided with dial pulse address signaling or Dual Tone Multifrequency (DTMF) address signaling and either loop start or ground start supervisory signaling. The type of signaling is the option of the customer.
- available as either a two-wire or four-wire Voiceband Special Access Service (i.e., 300-3000 Hz bandwidth). Each transmission path is provided at the option of the customer with transmission specifications as described in Section 7000 of the Verizon Technical Interface Reference Manual. (T)

All rules and regulations pertaining to Special Access are applicable to Special Access Lines used with a Switching Interface. Rates and Charges are found in 5.7.2 for two-wire and four-wire Voiceband Special Access Lines.

A customer may also order high capacity facilities from an end user's CDL to a Telephone Company Hub for the purpose of originating or terminating Special Access Lines used with a Switching Interface. High capacity to voice multiplexing will be required at the Hub. The customer will be required to submit an ASR for the high capacity facility and voice multiplexing. The customer will also be required to submit an ASR(s) for the individual Voiceband SALs specifying the channel facility assignment (CFA) for each service. This Hub may or may not be a WATS Serving Office. In those instances when the Hub is not a WATS Serving Office, Voiceband Special Transport is applicable as set forth in 5.1.1(B), for each individual Special Access Line used with a Switching Interface to the Telephone Company designated WATS Serving Office.

The DS1 Special Access Line provided under this tariff will not be billed when used with ISDN PRI that uses alternate higher capacity digital facilities for loop transport. This includes, i.e., providing service under a local Optical Networking Tariff when the optical node is at the same location, DS3s, or comparable local tariffs and special assemblies. A DS1 Special Access Line provided to the serving wire center at which the customer obtains ISDN PRI Service will be transmitted with B8ZS Clear Channel Capability per Technical Reference Publication GR-342, Issue 1. (N)

(D) (Reserved for Future Use)
(E)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 4

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.1 General (Continued)

5.1.1 Rate Elements (Continued)

(E) Supplemental Features

Supplemental Features may be added to a Special Access circuit to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific facilities, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of facilities. Although the facilities necessary to perform a specified function may be installed at various locations along the path of the Special Access circuit, including the CDL, it will be provided for as a single rate element.

Examples of Supplemental Features that are available include, but are not limited to, bridging and conditioning. Each Supplemental Feature is described in 5.4, and rates are set forth in 5.7.

(F) Multiplexing Arrangements

Multiplexing provides for arrangements to convert a single higher capacity or bandwidth circuit for bulk transport to several lower capacity or bandwidth circuits. Multiplexing is only available at a Telephone Company designated Hub Wire Center arranged for multiplexing. All types of multiplexing may not be available at each Hub Wire Center. Refer to Section 5.6.6 for a description of Hub Wire Center. Descriptions for each type of multiplexing arrangements are provided in 5.5 following, and rates are set forth in 5.7 following.

(G) Special Transport Termination

(1) DS1 Service

The Special Transport Termination rate element as set forth in 5.7, applies only to DS1 offering and is in addition to the Special Transport rate element. Special Transport Termination provides the equipment and arrangements necessary to terminate the Special Transport facility at a serving wire center. One Special Transport Termination charge applies for the termination of each end of a Special Transport facility for DS1 offering.

(2) Fractional T1 Service (FT1)

For Fractional T1 Service, Special Transport Termination must be ordered as Fractional Special Transport Termination in the same grouping (N x 56 Kbps or N x 64 Kbps where N = 2, 4, or 6) as the associated FT1 SALs.

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 5
Cancels Original Page 5
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. **SPECIAL ACCESS (Continued)**

5.1 **General (Continued)**

5.1.2 **Special Access Configurations**

There are two types of facility configurations over which Special Access Services are provided - two-point and multipoint.

(A) **Two-point Service**

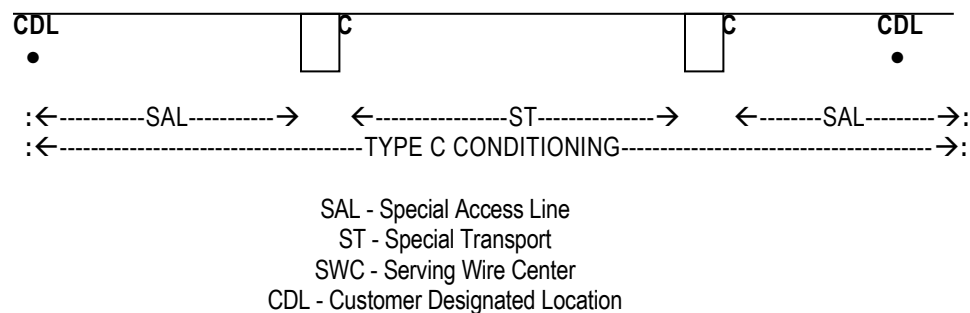
A two-point configuration is a circuit which is provided to connect two CDLs, either directly connected or through a Hub Wire Center where multiplexing functions are performed, or a CDL and a WATS Serving Office.

All Special Access offerings may be provided as a two-point configuration.

Applicable rate elements are:

- Special Access Lines
- Special Transport (when applicable)
- Special Transport Termination (when applicable)
- Supplemental Features (when applicable)
- Multiplexing Arrangements (when applicable)

The following diagram depicts a typical two-point service connecting two CDLs. The service is provided with the supplemental feature of Type C Conditioning:



Applicable rate elements are:

- Special Access Line (2 applicable)
- Special Transport (per airline mile between SWCs)
- Supplemental Feature of Type C Conditioning (2 applicable)

(B) **Multipoint Service**

A multipoint configuration is a circuit that is provided to connect three or more CDLs through a Telephone Company Hub Wire Center.

Only Voiceband, Digital Data Service facilities, and Miscellaneous Services where so designated, will be provided as multipoint configurations. There is no limitation on the number of mid-links, but the use of more than three mid-links in tandem may degrade the quality of the multipoint facilities. A mid-link is defined as the Special Transport facilities between Hub Wire Centers where the circuit is bridged and/or where circuit switching devices, such as loop transfer arrangement, are located. (C)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 6

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.1 General (Continued)

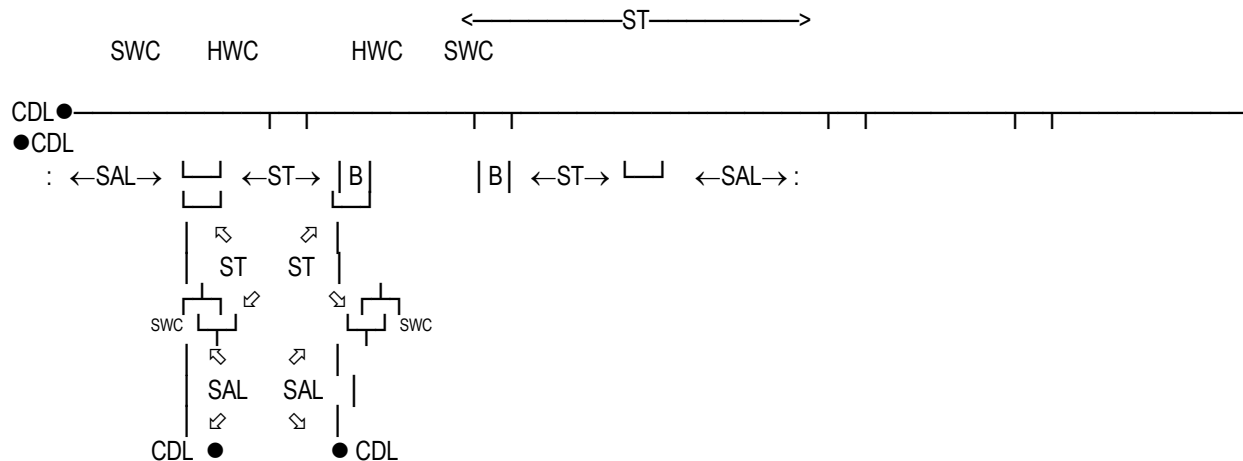
5.1.2 Special Access Configurations (Continued)

(B) Multipoint Service (Continued)

Multipoint service is provided in the following manner:

- (1) Special Access Line per CDL to their respective serving wire centers.
- (2) Special Transport between serving wire centers associated with the CDLs and the Hub Wire Center.
- (3) Special Transport between Hub Wire Centers.
- (4) Supplemental Features: Bridging equipment for each bridging location and other Supplemental Features when applicable.
- (5) (Reserved for Future Use)
- (6) Multiplexing Arrangements when applicable.

The following diagram depicts a multipoint service connecting four CDLs via two customer specified Hub Wire Centers:



SAL - Special Access Line
ST - Special Transport
SWC - Serving Wire Center
CDL - Customer Designated Location
HWC - Hub Wire Center
B - Bridging

Applicable rate elements are:

- Special Access Lines (4 applicable)
- Special Transport (5 segments, per airline between SWCs and HWCs)
- Bridging (6 applicable, one per bridge port)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 7
Cancels Original Page 7
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.1 General (Continued)

5.1.3 Special Facilities Routing

A customer may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are as set forth in Section 9 following.

5.1.4 Design Layout Report

The Telephone Company will provide to the customer the makeup of the Special Access provided under this tariff to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report and will include the following:

- Cable gauge, length and loading.
- Makeup (e.g., T-Carrier, two-wire, four-wire, etc.)
- Specific pair of circuit assignment at the customer designated location.

The Design Layout Report will be provided to the customer within fourteen working days from the ASR Date. Updated reports will be reissued within fourteen working days whenever facilities provided to the customer are materially changed. Both the initial and updated Design Layout Reports will be provided to the customer at no charge.

5.1.5 Acceptance Testing

At the time of installation, the following test parameters apply:

- (A) For Voiceband services, acceptance testing will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise.

When the Interface Arrangement provides a four-wire voice transmission facility and the point of termination provides two-wire voice transmission (i.e., there is a four-wire to two-wire conversion at the point of termination) balance tests are also included in acceptance testing. When performing installation and acceptance testing, the Telephone Company will test the access service within the LATA.

On four-wire and effective four-wire circuits where the Network Channel Terminating Equipment (NCTE) has the capability of being remotely aligned, the Telephone Company may perform acceptance testing without a Telephone Company technician at the customer's premise. Should the customer request a technician be present at the customer's premise, additional charges will apply as set forth in Section 6.2(C). The applicable rates are in Section 6.2(G).

If the NCTE at the customer's premise does not have the capability of being aligned remotely, the additional charges will not apply. The Telephone Company will determine the type of NCTE placed at a customer's premise.

- (B) For analog services and for digital services (i.e., Digital Data Services and High Capacity Digital Services), (C) acceptance testing will include tests for the parameters applicable to the service as set forth in Section 7000 of the GTE Technical Interface Reference Manual for each of these services.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 8

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.1 General (Continued)

5.1.5 Acceptance Testing (Continued)

When the customer requests the performance of additional cooperative tests which are not required to meet these specified performance parameters, charges as set forth in 6.6(B) following will apply. All test results will be made available to the customer upon request.

If acceptance tests are not started within 15 minutes after pre-service tests have been completed and the customer has been notified by the Telephone Company, additional charges may apply, as set forth in 6.2 following, unless the delay is caused by the Telephone Company.

5.1.6 Ordering Conditions

Ordering conditions are set forth in detail in Section 3 preceding. Also included in that section, are other charges which may be associated with ordering Special Access (e.g., Service Date Change Charges, Cancellation Charges, etc.).

(A) Determination of Jurisdiction of Mixed Use Special Access Lines

When mixed interstate and intrastate Special Access Service is ordered, the jurisdiction will be determined as follows:

1. If the customer's estimate of the interstate traffic on the physically intrastate line involved constitutes 10% or less of the total traffic on that line, the line will be ordered and provided in accordance with the applicable rules and regulations of this tariff.
2. If the customer's estimate of the interstate traffic on the physically intrastate line involved constitutes more than 10% of the total traffic on that line, the line will be ordered and provided in accordance with the applicable rules and regulations of the appropriate interstate tariff.

(B) Special Access Jurisdictional Verification

If a billing dispute arises or a regulatory commission questions the customer's certification of the jurisdiction of the line the Telephone Company will ask the customer to provide the data used to determine the jurisdiction. The customer shall supply the data within 30 days of the Telephone Company's request. The customer shall keep records of system design and functions from which the jurisdiction can be ascertained and upon request of the Telephone Company make the records available for inspection as reasonably necessary for purposes of verification of the jurisdiction of the service.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 9
Cancels Original Page 9
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.2 Description of Special Access

There are three generic types of Special Access offerings. They are:

(C)

- Voiceband

(D)

- High Capacity Digital

(D)

- Digital Data Service

Each type has its own characteristics, and are subdivided by one or more of the following:

- Transmission specifications

- Bandwidth

- Speed (i.e., bit rate)

- Spectrum

The Special Access offerings described below are comprised of a combination of the rate elements described in 5.1.1. The following descriptions indicate the most effective use for each facility. Customer use for purposes other than those indicated is limited only to the extent that such use must not harm the network. Further, the Telephone Company does not guarantee transmission performance beyond the parameters identified in the descriptions.

The transmission performance characteristics of each Special Access offering are stated in Section 7000 of the GTE Technical Interface Reference Manual. The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff, except that existing services with performance specifications exceeding the standards in the GTE Technical Interface Reference Manual will be maintained at the performance level specified in the manual. Where transmission performance characteristics are required other than those as stated in Section 7000 of the GTE Technical Interface Reference Manual, the Telephone Company will review, and where technically feasible, will develop rates and charges for the additional costs associated with provisioning the parameters. These rates and charges will be filed on an individual case basis in Section 5.9 and will apply in addition to all other applicable rates and charges.

The customer also has the option of ordering Voiceband and analog and digital high capacity facilities to a Telephone Company Hub for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the Hubs, as well as the number of individual channels which may be derived from each type of facility, are set forth in 5.5. Additionally, the customer may specify supplemental features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the supplemental features available are set forth in 5.4.

For example, a customer may order a DS3 from a CDL to a Telephone Company Hub for multiplexing to 28 DS1 channels. The DS1 channels may be further multiplexed at the same or a different Hub to Voiceband channels or may be extended to other CDLs. Optional features may be added to either the DS1 or the Voiceband channels.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 10
Cancels Original Page 10
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.2 Description of Special Access (Continued)

5.2.1 Voiceband

(A) Two-Wire Voiceband Facility (USOC - XDM++, XDN++; XDV++)

These facilities are unconditioned and are capable of transmitting voice or data signals within the frequency spectrum of approximately 300 Hz to 3000 Hz. These facilities are furnished on a two-point or multipoint basis and may be terminated two-wire or four-wire at the point of termination. They permit the simultaneous transmission of information in both directions over a circuit, but it is not possible to ensure independent information transmission in both directions. Supplemental features may be added, at applicable charges, to enhance the operational capabilities of these facilities.

(B) Four-Wire Voiceband Facility (USOC - XDN++, XDV++)

These facilities are unconditioned and are capable of transmitting voice or data signals within the frequency spectrum of approximately 300 Hz to 3000 Hz. The facilities are furnished on a two-point or multipoint basis and may be terminated two-wire or four-wire at the point of termination. When terminated four-wire, they permit simultaneous independent transmission of information in both directions over a circuit. However, when terminated two-wire, simultaneous independent transmission cannot be supported. Supplemental features may be added, at applicable charges, to enhance the operational capabilities of these facilities.

5.2.2 (Reserved for Future Use)

5.2.3 (Reserved for Future Use)

(T)

(D)

(D)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 11
Cancels Original Page 11
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.2 Description of Special Access (Continued)

5.2.3 (Reserved for Future Use)

(T)

(D)

(D)

5.2.4 (Reserved for Future Use)

5.2.5 (Reserved for Future Use)

(T)

(D)

5.2.6 (Reserved for Future Use)

(D)

5.2.7 High Capacity Digital (USOC - XDH++)

These facilities are two-point and are furnished between CDLs or between a CDL and a Telephone Company designated Hub Wire Center where multiplexing is offered. High Capacity facilities may be used to provide Special Access Lines as set forth in 5.1.1(C)(2). A High Capacity to Voice multiplexing arrangement, as described in Section 5.5, is required at the Hub Wire Center.

(A) DS1 facilities provide for the transmission of isochronous bipolar serial data at a rate of 1.544 Mbps.

(B) (Reserved for Future Use)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 12

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.2 Description of Special Access (Continued)

5.2.7 High Capacity Digital (Continued)

- (C) FT1 facilities are furnished for the transmission of isochronous bipolar serial data and are available at transmission rate groupings of N x 56 Kbps or N x 64 Kbps where N equals 2, 4, or 6. FT1 channels are contiguous within the network and can be used to create a wideband circuit using customer provided equipment. When N x 64 FT1 is ordered in conjunction with DS1 service for multiplexing purposes, the DS1 must have Clear Channel Capability as described in 5.8.1. FT1 Service at a rate of N x 64 Kbps will only be provided where Clear Channel Capability is available in the network. Where Clear Channel Capability is not available, N x 56 Kbps service can be provided in lieu of N x 64 Kbps.

5.2.8 (Reserved for Future Use)

5.2.9 Digital Data Service (USOC - XDD++)

Facilities for Digital Data Service are furnished for the simultaneous two-way transmission of synchronous data and are available at transmission speeds of: 2.4 Kbps, 4.8 Kbps, 9.6 Kbps, 19.2 Kbps, 56 Kbps or 64 Kbps. Digital Data facilities may be provided on a two-point or multipoint basis.

5.2.10 Miscellaneous Special Access Services

A description of each service provided under Miscellaneous Special Access Services, along with the rates is set forth in 5.8 following. Other Special Access rate elements may apply in addition to those found in 5.8.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 13

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.3 Description of Terminating Options

Terminating Options provide a clearly delineated interface between Telephone Company and customer facilities at the point of termination at the CDL. Terminating Options facilitate the design, isolation, and testing of the Special Access. The description of each Terminating Option defines the most effective use of the Terminating Option. The technical parameters of each type of associated interface are set forth in Section 7000 of the GTE Technical Interface Reference Manual. Although a customer is not restricted from alternate applications, except where such application is harmful to the network, the Telephone Company cannot guarantee technical performance for other than the applications stated below. Terminating Options are nonchargeable.

5.3.1 (Reserved for Future Use)

5.3.2 Voice Grade

(A) Two-Wire Voice Grade, Non-Data, Without Signaling

This option provides a two-wire interface to a customer and terminates an effective two-wire facility furnished for voice transmission only. Customer provided signaling must be limited to tones in the voice band. Customer provided voiceband signaling equipment must limit transmission power to 0.0 dBm peak and -13 dBm average power over a three-second period.

(B) Four-Wire Voice Grade, Non-Data, Without Signaling

This option provides a four-wire interface to the customer terminal equipment and terminates an effective four-wire facility furnished for voice transmission only. Customer provided signaling must be limited to tones in the voiceband. Customer provided voice band signaling equipment must limit transmission power to 0.0 dBm peak and -13 dBm average power over a three-second period.

(C) Voice Grade Data Termination

This option provides a two-wire or four-wire transmission interface to a customer's private line data modem and terminates an effective four-wire facility furnished for voiceband data transmission.

(D) Two-Wire Voice Grade Station Connecting Facility Termination

This option provides a means to terminate an effective two-wire facility or an effective four-wire facility with a two-wire customer interface on a telephone, key system, PBX, ACD, or similar equipment. This option is normally used to terminate facilities that furnish foreign central office service, the station end of PBX off premises service, or private switched service network access lines. The option provides both the transmission and loop signaling functions normally associated with these services. The option is also used to terminate facilities arranged with automatic ringdown signaling. This option provides the loop and ringdown signaling with the facility.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 14
Cancels Original Page 14
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.3 Description of Terminating Options (Continued)

5.3.2 Voice Grade (Continued)

(E) Four-Wire Voice Grade Station Connecting Facility Termination

A terminating option similar to (D) preceding used to terminate effective four-wire foreign central office service. The option provides a four-wire transmission interface to the customer terminal equipment and the loop signaling function normally associated with these services. This option provides the loop and ringdown signaling with the facility.

(F) Two-Wire Station Connecting Facility Termination for the Open End of an Off Premises PBX Extension

Terminating options are available depending on the signaling range of the PBX (or similar system) as defined in Part 68 of the FCC Rules and Regulations. Type 1 is an option requiring range extension equipment at the CDL. Type 2 is an option with no range extension equipment at the CDL. If needed, the loop signaling range equipment for Type 1 must be specifically specified, see Section 5.4.4 following for available arrangements.

(G) Dial Repeating Tie Trunk Termination

Two network terminating options are provided for terminating effective four-wire transmission facilities used to furnish dial repeating tie trunk services. These options are described in terms of the interface they provide to a PBX (or similar system).

(1) A Type I tie line termination provides the customer with a two-wire transmission interface and includes either two-wire or four-wire E&M type signaling. Transmission and signaling interface options available are described in Part 68 of the FCC Rules and Regulations. This option provides the E&M type signaling with the facility.

(2) A Type III tie line termination provides the customer with a four-wire transmission interface and includes either two-wire or four-wire E&M type signaling. Transmission and signaling options available are described in Part 68 of the FCC Rules and Regulations. This option provides the E&M signaling with the facility.

5.3.3 (Reserved for Future Use)

(T)

(D)

(D)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
1st Revised Page 15
Cancels Original Page 15
EFFECTIVE: September 5, 2002

ISSUED: August 5, 2002
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.3 Description of Terminating Options (Continued)

5.3.4 (Reserved for Future Use)

5.3.5 (Reserved for Future Use)

5.3.6 High Capacity Digital

(A) High Capacity Digital DS1

Provides a High Capacity Digital DS1 Special Access interface for use in providing simultaneous two-way transmission of isochronous bipolar serial data signals at the rate of 1.544 Mbps.

(B) (Reserved for Future Use)

(C) Fractional T1 Service

Provides a DS1 Special Access interface for use in providing simultaneous two-way transmission of isochronous bipolar serial data signals and is limited to groupings of N x 56 Kbps or N X 64 Kbps where N equals 2, 4, or 6.

5.3.7 Digital Data Service (DDS)

Provides DDS Special Access interface for use in providing simultaneous two-way transmission of sequential bipolar data signals at transmission speeds of 2.4 Kbps, 4.8 Kbps, 9.6 Kbps, 19.2 Kbps, 56 Kbps or 64 Kbps.

(T)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 16
Cancels Original Page 16
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.4 Description of Supplemental Features

Supplemental Features are items which can be added to a Special Access service to provide enhanced capabilities or improve its utility. References to specific uses or Special Access types indicate the most effective use for each Supplemental Feature. Customer use for other purposes or with other Special Access types is limited only to the extent that such use must not harm the network. Further, the Telephone Company does not guarantee functional operation of Supplemental Features for these alternate applications.

Listed below are the Supplemental Features that are offered under this tariff.

5.4.1 Bridging

Bridging is the function of connecting three or more CDLs in a multipoint arrangement. Listed below are those bridging services offered under this tariff.

(A) MultiPoint Data Bridging (USOC - B5NDJ)

This feature provides the capability to derive a multipoint data circuit from a single facility and is normally provided on Voiceband facilities provided for transmission of data signals. This function is provided on a per port basis. Polled multipoint data circuits are a typical application of this feature.

(B) Voice Conference Bridging (USOC - B5NVJ)

Bridging arrangement to connect multiple Voiceband facilities in order that a voice frequency input signal from any location will be reproduced at the output of all other circuit locations. This function is provided on a per port basis.

(C) Alarm Distribution Bridging (USOC - BCNTA)

Provides polling type bridging capabilities, band splitting filters and conversion of four-wire common terminations up to a capacity of 40 two-wire terminations. This function is offered as two tariff elements. The first element provides all shelving and common equipment for a capacity of 40 two-wire terminations. The second element provides a two-wire port. One common equipment rate element will apply to accommodate up to 40 two-wire terminations. One two-wire port charge will apply to each two-wire Special Access Line terminated in the bridge.

(D) (Reserved for Future Use)

(T)

(D)

(D)

(E) DDS Bridging (USOC - BCNDA)

Provides for a multi-junction unit (MJU) arrangement to bridge 2.4 kbps, 4.8 kbps, 9.6 kbps, 19.2 kbps, 56 or 64 kbps DDS facilities. Different speeds cannot be mixed on the same bridge. This function is provided on a per port basis.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 17
Cancels Original Page 17
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.4 Description of Supplemental Features (Continued)

5.4.2 Conditioning Arrangements - Data

Data conditioning, when utilized in conjunction with effective four-wire Voiceband transmission facilities, improves the characteristics of these facilities. These improved characteristics are not represented to apply to the entire end to end facility of the customer, but only to that portion of the facility provided by the Telephone Company.

There are three types of data conditioning: Type C, Type C-Improved and Type DA. Type C and Type C-Improved conditioning control attenuation distortion and envelope delay distortion. Type DA controls the signal to C-notched noise ratio and intermodulation distortion. Type C and Type DA conditioning may be combined on the same circuit. Type C-Improved and Type DA conditioning may be combined on the same circuit.

Data conditioning is charged for on a per Special Access line basis. The parameters listed for each type of data conditioning apply from two or more CDLs located within the Telephone Company serving area. Conditioning parameters apply to each end of a two-point circuit. For multipoint circuits, the conditioning parameters apply from any CDL to either the point of interface at another CDL or the first Telephone Company bridging point depending on the circuit configuration. These parameters are not applicable to High Capacity points of interface, because there is no voice frequency test access point. In these instances the data conditioning parameters apply to the last telephone company voice frequency test access point before the High Capacity point of interface. (C)

(A) Type C (USOC - X1CPT)

Type C conditioning of Voiceband facilities provides a facility with the following transmission parameters enhanced to meet the values specified for Type C conditioning in Section 7000 of the GTE Technical Interface Reference Manual in addition to the standard parameters for Voiceband circuits.

- (1) Attenuation distortion with reference to 1004 Hz.
- (2) Envelope delay distortion.

(B) Type C-Improved

Type C-Improved conditioning of Voiceband facilities provides a facility with the following transmission parameters enhanced to meet the values specified for Type C conditioning in Section 7000 of the GTE Technical Interface Reference Manual in addition to the standard parameters for Voiceband circuits.

- (1) Improved attenuation distortion with reference to 1004 Hz.
(USOC - UHW)
- (2) Improved envelope delay distortion. (USOC - UHY)

The customer may choose to order Improved Attenuation Distortion or Improved Envelope Delay Distortion or both (USOC - XCECM) configurations. The rates specified for Type C-Improved conditioning, Section 5.7.2(B), will apply regardless of the configuration specified.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 18
Cancels Original Page 18
EFFECTIVE: October 31, 2014

ISSUED: October 1, 2014
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.4 Description of Supplemental Features (Continued)

5.4.2 Conditioning Arrangements - Data (Continued)

(C) Type DA (USOC - XDCPT)

Type DA conditioning of Voiceband facilities provides a facility with the following transmission parameter enhanced to meet the values specified for Type DA conditioning in Section 7000 of the GTE Technical Interface Reference Manual in addition to the standard parameters for voiceband circuits.

- (1) Signal to C-notched noise ratio.
- (2) Nonlinear signal to second order distortion.
- (3) Nonlinear signal to third order distortion.

5.4.3 Reserved for Future Use

(D)

(D)

5.4.4 Signaling Arrangements (USOC - OS+; XSSLR)

Signaling arrangements, when furnished with Voiceband transmission facilities, enable the facilities to accommodate standard telecommunications signaling protocols. Signaling arrangements provide for the conversion of one signaling method to another signaling method and/or extension of a signaling method at customer and Telephone Company interfaces and enables the transmission facilities to accommodate signaling transmission. Signaling arrangements are available with Voiceband transmission facilities to enable transmission of requested signaling formats. The third and fourth protocol characters of the Network Channel Interface (NCI) and Secondary Network Channel Interface (SEC NCI) codes as indicated on the customer's order, reflect signaling activity. Typical protocol characters contained in the NCI or SEC NCI codes that designate signaling arrangements are: AB, AC, DS, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, NO, RV and SF.

The customer identified NCI and SEC NCI codes will be considered the customer's request for signaling. The Telephone Company will endeavor to provide the specific signaling protocols requested by the customer. In those cases where facilities and equipment are not available to meet the customer's specific requests, the Telephone Company will provide the customer acceptable alternate protocols. Sections 3300, 6000 and 7000 of the GTE Technical Interface Reference Manual provide detailed technical descriptions of the signaling protocols normally available with each service offering. To properly provision SF signaling, when associated signaling code, is DS (PCM), additional information of SF requirements (loop signaling type DX/E&M or ringdown) must accompany the customer's order.

NOTE: Metallic Facilities are no longer available for use with Voice Band or Private Line services

(C)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 19

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.4 Description of Supplemental Features (Continued)

5.4.4 Signaling Arrangements (Continued)

Signaling arrangement charges apply whenever interfaces at the customer premises or at the customer's Telephone Company serving wire center require a signaling arrangement other than those provided with the Terminating Options in 5.3 preceding. Signaling Arrangements will be charged on a per SAL basis. Specifically, a signaling charge applies if the signaling protocol characters in the NCI and the SEC NCI fields are different and include one of the following codes: RV, EX, SF, DX, DY, DS, AB.

For the above conditions, one additional signaling charge applies for each additional leg of multipoint circuit. When a Multiplexing Arrangement is ordered that converts a single higher capacity or bandwidth circuit into several lower Voiceband circuits, the Voiceband Signaling Arrangements are provided as part of the Multiplexing Arrangement, and no additional Signaling Arrangement charges will apply.

A signaling charge applies in addition to any other applicable signaling charge when loop range extension equipment is required. The Telephone Company will obtain customer approval for signaling range extension equipment.

Listed below are the Signaling Arrangements offered under this tariff:

- (A) Loop Signaling Range Extension - An arrangement to extend the metallic resistance limitations of loop type signaling. (USOC - OSA)
- (B) Conversion of Loop or E&M Signaling to SF - An arrangement to convert loop or E&M signaling to the single frequency signaling format. (USOC - OSB)
- (C) E&M to DX Signaling Conversion - Conversion of E&M signaling to the DX signaling format. (USOC - OSC)
- (D) E&M to Loop Signaling Conversion - Conversion of E&M signaling format to the loop type signaling. (USOC - OSD)
- (E) Loop or E&M to PCM Signaling - Conversion of loop or E&M signaling to the digital (PCM) signaling format. (USOC - OSN)
- (F) Automatic Ringdown Signaling (ARD) - A signaling arrangement on a two-point Special Access which converts loop seizure at one end of the facility into ringing signal at the opposite end. (USOC - XSSLR)

5.4.5 Echo Control

- (A) (Reserved for Future Use)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 20

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.4 Description of Supplemental Features (Continued)

5.4.5 Echo Control (Continued)

(B) Echo Cancellor (USOC - ORJ)

An arrangement provided at the customer's request to cancel reflected speech energy on a four-wire facility. This conditioning is generally required on circuits with long propagation delay. Echo canceller is charged on a per Special Access circuit basis.

5.4.6 Improved Return Loss (USOC - 1RL)

Improved Return Loss provides for increased echo return and singing return parameters of an effective two-wire channel. This optional feature is available with certain Voiceband services at a two-wire point of termination when the transmission interface is four-wire at one CDL and two-wire at the other CDL. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire point of termination.

Improved Return Loss rates and charges will apply on a per Special Access Line basis at the rates specified in 5.7.2(B) following. Technical parameters and the applicable Voiceband services are specified in Section 7000 of the GTE Technical Interface Reference Manual.

5.4.7 Voiceband Facility Switching Arrangement (USOC - UST)

An arrangement to provide switching between two Voiceband Special Access Services. This arrangement may require a Voiceband control circuit to control the switching arrangement at an additional charge.

5.4.8 Automatic Protection Switch (USOC - APP)

Consists of special switching equipment placed at both ends of a duplicate DS1 facility (i.e., DS1, High Capacity Circuit) for automatic switching to the duplicate (standby) facility in the event the active facility is inoperative.

Duplicate facilities may terminate at a serving wire center, a CDL or both. The option provided under this tariff only includes the APS(s) located at a serving wire center(s). When the duplicate facility terminates at a CDL, the customer will be responsible for providing the associated APS and ensuring it is compatible with the Telephone Company provided switch if appropriate.

The duplicate facilities are not a part of this supplemental feature.

5.4.9 Improved Termination Option (USOC - X4T)

Improved Termination provides for a fixed 600 ohm impedance, an increased range of transmission levels, and simplex reversal (when applicable) on an effective four-wire channel. This optional feature is available with most Voiceband services with a four-wire point of termination. Telephone Company equipment is required at the customer's premises where this option is ordered.

The Improved Termination option will be ordered and rates and charges, as set forth in 5.7.2(B) following, will apply on a per SAL basis. Technical parameters and the applicable Voiceband services are specified in Section 7000 of the GTE Technical Interface Reference Manual.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 21

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.4 Description of Supplemental Features (Continued)

5.4.10 Improved Equal Level Echo Path Loss Option - ELEPL-2 (USOC - ORP)

This option provides improved echo control parameters for an effective two-wire channel at a four-wire point of termination. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire point of termination.

The term "Equal Level Echo Path Loss" (ELEPL) represents the measure of Echo Path Loss (EPL) at a four-wire interface which is corrected by the difference between the send and receive Transmission Level Point (TLP), i.e., $ELEPL = EPL - TLP(\text{send}) + TLP(\text{receive})$.

Improved ELEPL rates and charges will apply on a per SAL basis at the rates set forth in 5.7.2(B) following. Technical parameters are specified in Section 7000 of the GTE Technical Interface Reference Manual.

5.4.11 Digital Data Service Secondary Channel (USOC - SCA24; SCA48; SCA96; SCA56)

This feature is offered on an optional basis to customers of Digital Data Service. It is a separate, slower speed digital channel that operates in parallel with the companion Digital Data Service primary channel. The secondary channel allows for remote control and testing of the network and peripheral devices without taking the network out of service and without lowering the speed of the primary Digital Data Service channel. This feature is not available with 19.2 Kbps or 64 Kbps Digital Data Service.

Rates and charges as set forth in 5.7.5(B) will apply on a per Digital Data Service SAL basis (each end of a two-point circuit and all ends of a multi-point circuit).

The provisioning of this option to existing Digital Data Service requires the discontinuance of the existing Digital Data Service and the establishment of new Digital Data Service for both ends of a two-point circuit and all ends of a multi-point circuit. The nonrecurring charges associated with the installation of Digital Data Service will apply.

5.5 Description of Multiplexing Arrangements

Multiplexing Arrangements provide the function to convert a single higher capacity or bandwidth circuit for bulk transport to several lower capacity or bandwidth circuits. Cascading multiplexing occurs when a high capacity analog or digital channel is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a DS1C may be de-multiplexed to two DS1 facilities and then the DS1 facilities may be further de-multiplexed to 24 Voiceband channels.

When cascading multiplexing is performed in the same or different Hub Wire Center, a charge for the additional multiplexing unit will also apply. When cascading multiplexing is performed at a different Hub Wire Center, Special Transport will also apply between the involved Hub Wire Centers.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 22
Cancels Original Page 22
EFFECTIVE: October 31, 2014

ISSUED: October 1, 2014
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.5 Description of Multiplexing Arrangements (Continued)

Listed below are the multiplexing arrangements offered under this tariff.

(A) Reserved for Future Use

(D)

(B) Reserved for Future Use

(C) Reserved for Future Use

(D)

(D) DS1 to Voice (USOC - MQ1)

An arrangement that multiplexes twenty-four voice grade circuits to a single DS1 digital circuit at a rate of 1.544 Mbps, or multiplexes a single DS1 digital circuit at a rate of 1.544 Mbps to twenty-four voice grade circuits. If this DS1 terminates in a DDS hub, a channel(s) of the DS1 can be used to provide DDS; however, DDS service stops at the DS1 interface. Multiple channels may be required to provide individual Channels.

(C)

Up to 16 channels of this DS1 can be used for Direct Digital Service (DDS-like service) with the assurance that circuit performance parameters will be met. If more than 16 channels are used for DDS-like service, the performance parameters for the DS1 and all circuits riding the DS1 will not be guaranteed.

FT1 can be used in conjunction with DS1 to Voice Multiplexing in groupings of N x 56 Kbps or N x 64 Kbps where N = 2, 4 or 6, to a single DS1 digital circuit at a rate of 1.544 Mbps.

(E) DS1C to Voice (USOC - MQH++)

An arrangement that multiplexes forty-eight voice grade circuits to a single DS1C digital circuit at a rate of 3.152 Mbps, or multiplexes a single DS1C digital circuit at a rate of 3.152 Mbps to forty-eight voice grade circuits.

(F) DS1C to DS1 (USOC - MXH++)

An arrangement that multiplexes two DS1 digital circuits to a single DS1C digital circuit at a rate of 3.152 Mbps, or multiplexes a single DS1C digital circuit at a rate of 3.152 Mbps to two DS1 digital circuits.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 23

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.5 Description of Multiplexing Arrangements (Continued)

(G) DS3 to DS1 (USOC - MXB++)

An arrangement that multiplexes twenty-eight DS1 digital circuits to a single DS3 digital circuit at a rate of 44.736 Mbps, or multiplexes a single DS3 digital circuit at a rate of 44.736 Mbps to twenty-eight DS1 digital circuits.

(H) DS3C to DS1 (USOC - MQT++)

An arrangement that multiplexes fifty-six DS1 digital circuits to a single DS3C digital circuit at a rate of 89.472 Mbps, or multiplexes a single DS3C digital circuit at a rate of 89.472 Mbps to fifty-six DS1 digital circuits.

(I) Group to DS1 (USOC - MQG++)

An arrangement that multiplexes two wideband analog groupband circuits to a single DS1 digital circuit at a rate of 1.544 Mbps, or multiplexes a single DS1 digital circuit at a rate of 1.544 Mbps to two wideband analog groupband circuits.

(J) Digital Data Carrier Multiplexer (USOC - QMU)

An arrangement that multiplexes a single DS1 1.544 Mbps digital circuit to twenty-three DSO digital ports for connection to either a subrate data multiplexer as described in 5.5(K) following or 56 Kbps digital circuits.

(K) Digital Data Subrate Multiplexer (USOC - QSU24; QSU48; QSU96)

Used with cascading multiplexing, the Digital Data Subrate Multiplexer is an arrangement that multiplexes the following quantities of subrate digital data circuits into a single DSO digital port: 1) twenty 2.4 Kbps, 2) ten 4.8 Kbps or 3) five 9.6 Kbps. In turn, the DSO digital port is then multiplexed to a single DS1 digital circuit using the Digital Data Carrier Multiplexer described in 5.5(J) preceding.

5.6 Rate Regulations

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

5.6.1 Types of Rates and Charges

There are three types of rates and charges. These are monthly rates, daily rates and nonrecurring charges. The rates and charges are described as follows:

(A) Monthly Rates

Monthly rates are recurring charges that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 24
Cancels Original Page 24
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.1 Types of Rates and Charges (Continued)

(B) (Reserved for Future Use)

(T)

(D)

—

(D)

(C) (Reserved for Future Use)

(D) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity, (i.e., installation of service or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are those listed below.

(1) Design Change Charge (USOC - H28)

The customer may request a design change to the service ordered. A design change is any change to a pending ASR for Special Access Service which requires engineering review. Design changes include such things as the addition or deletion of supplemental features or changes in the terminating options. Design changes do not include a change of IC CDL or end user premises when its serving wire center changes or Special Access service type (e.g., 2-wire to 4-wire Voiceband, etc.). Changes of this nature will require the issuance of a new ASR and the cancellation of the original ASR. The cancellation charges apply as set forth in 3.2.6 preceding. (C)

The Telephone Company will review the requested change, notify the customer whether the change can be accommodated and specify if a new service date is required. If the customer authorizes the Telephone Company to proceed with the design change, a Design Change Charge will apply.

The Design Change Charge, as set forth in 5.7.1 following, will apply on a per ASR per occurrence basis, for each ASR requiring a design change.

If a change of service date is required, the Service Date Change Charge as set forth in Section 3 preceding will also apply.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 25

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.1 Types of Rates and Charges (Continued)

(D) Nonrecurring Charges (Continued)

(2) Installation of Supplemental Features and Multiplexing Arrangements

Nonrecurring charges apply for the installation of some supplemental features and multiplexing arrangements available with Special Access service. The charge applies whether the feature or multiplexing arrangement is installed coincident with the initial installation of service or at any time subsequent to the installation of service.

For additions of supplemental features without an NRC, a charge equal to a SAL NRC will apply. Only one such charge per service, per order will apply.

(3) Installation of DS1 and FT1 Special Access Lines

(a) DS1 Standard Arrangements

There are two levels of NRC and monthly charges for the installation of a DS1 SAL as set forth in 5.7.7(A). The "First System" charge is assessed per SAL for the first DS1 service ordered by a customer between CDLs or a hub wire center. When the same customer requests additional DS1 service on the same ASR, to be installed at the same time and between the same CDLs as the "First System" DS1 SAL, the lesser charge under "Additional System" will apply.

(b) DS1 Optional Payment Plan (OPP) Arrangements

Customers subscribing to the DS1 OPP arrangements at rates set forth in 5.7.7(C) will not be assessed a nonrecurring charge (NRC) for initial installation of a "First System" DS1 SAL. For each "Additional System" DS1 SAL, the NRC as set forth in 5.7.7(A) will apply. In addition, under a DS1 OPP, the "Additional System" DS1 SAL may be ordered as set forth in 5.6.12(A) through 5.6.12(H) at any time by the same customer between the same CDL and its serving wire center or hub wire center as the "First System" DS1 SAL.

The Regulations in Section 5.6.1(D)(6) will apply to existing DS1 OPP customers when required for changes and other service rearrangements.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 26
Cancels Original Page 26
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.1 Types of Rates and Charges (Continued)

(D) Nonrecurring Charges (Continued)

(3) Installation of DS1 and FT1 Special Access Lines (Continued)

(c) (Reserved for Future Use)

(d) Fractional T1 Standard Arrangements

Customers subscribing to Fractional T1 service, at rates set forth in 5.7.9(A), will be assessed a nonrecurring charge. The NRC for Fractional T1 service will be assessed per SAL.

(e) Fractional T1 Optional Payment Plan (OPP) Arrangements

Customers subscribing to the Fractional T1 OPP arrangements, at rates set forth in 5.7.9(B), will not be assessed a nonrecurring charge.

The Regulations in Section 5.6.1(D)(6) will apply to existing FT1 OPP customers when required for changes and other service rearrangements.

(4) (Reserved for Future Use)

(5) Installation of Voicegrade Digital Data Service Special Access Lines (C)

The nonrecurring charge associated with the installation of voicegrade SALs is specified in 5.7.2(A). (C)

The nonrecurring charge associated with the installation of DDS SAL facilities and the provisioning of the customer specified transmission speed of 2.4, 4.8, 9.6, 19.2, 56 or 64 Kbps is specified in Section 5.7.5(A).

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 27

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.1 Types of Rates and Charges (Continued)

(D) Nonrecurring Charges (Continued)

(6) Service Rearrangements

Service rearrangements are changes to existing (installed) services which may be administrative only in nature or involve an actual physical change to the service. Changes to pending orders are in 3.2.2.

Changes in the type of service will be treated as a discontinuance of the service and an installation of a new service.

Changes in the physical location of the point of termination are treated as moves which are described and charged for as in 5.6.4.

Administrative changes will be made without charge(s) to the customer.

Administrative changes are as follows:

- Change in name or ownership or transfer of responsibility from one customer to another, provided there is no interruption of use or relocation of Special Access service.
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number,
- Change of agency authorization, and
- Change in jurisdiction involving no physical changes to the service.

All other service rearrangements will be charged for as follows:

- If the change involves the addition of another termination to an existing two-point or multipoint service, installation charges for each location added will apply.
- If the change involves the addition of supplemental feature or multiplexing arrangement, the installation charge associated with the supplemental feature or multiplexing arrangement will apply. When the supplemental feature or arrangement has no associated nonrecurring charge (or rated at \$.00), one SAL nonrecurring charge for the type of service involved (i.e., voicegrade SAL, DDS SAL, etc.) will be applied to the order.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 28

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.1 Types of Rates and Charges (Continued)

(D) Nonrecurring Charges (Continued)

(6) Service Rearrangements (Continued)

- If the change involves only changing the type of network interface, with no change in facility, the installation charge associated with each service receiving a network interface change will apply.
- If the change involves changing a two-wire service to a four-wire service or vice versa, the installation charge for each location changed will apply.
- If the change involves only rollovers or grooming, then no charges will apply. A rollover is the retermination of a segment of a lower capacity special access service onto a higher capacity special access service. The rollover must occur in the wire center where the higher capacity service is multiplexed with no other changes to the lower capacity service being reterminated (i.e., the segment must not require rerouting to connect to the multiplexer of the higher capacity service).

Grooming is the retermination of a lower capacity special access service from one channel in a higher capacity special access service to another channel in the same higher capacity service or to another channel in another higher capacity special access service (i.e., change in connecting facility assignment) in the same wire center, with no other changes to the lower capacity service.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Mechanicsville, Virginia

Section 5

Original Page 29

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

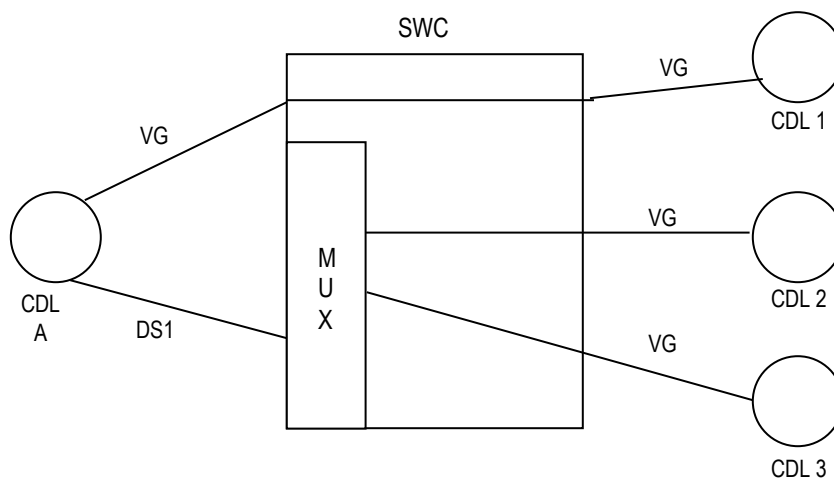
5.6 Rate Regulations (Continued)

5.6.1 Types of Rates and Charges (Continued)

(D) Nonrecurring Charges (Continued)

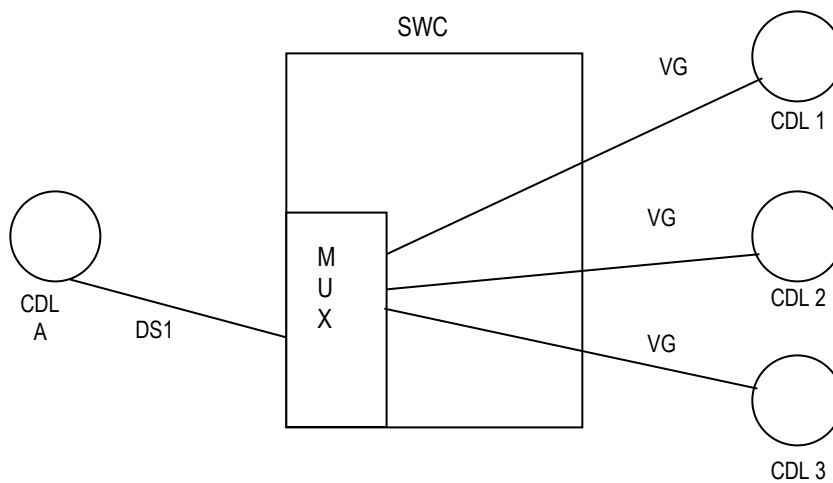
(6) Service Rearrangements (Continued)

ROLLOVER – EXAMPLE 1
Current Configuration



The customer requests that the voiceband circuit (VG) between CDL A and CDL 1 be "rolled over" to the DS1 serving CDL A. No NRCs apply for this request.

ROLLOVER – EXAMPLE 1
New Configuration



FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 30

EFFECTIVE: August 1, 2000

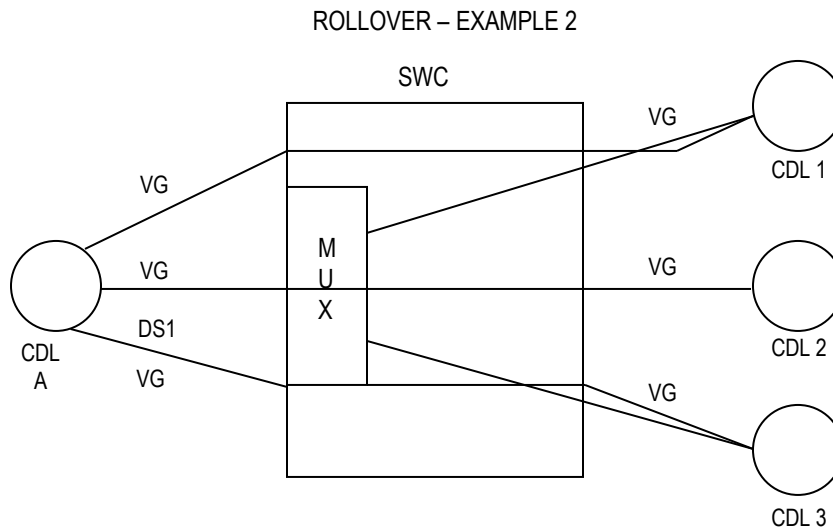
5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.1 Types of Rates and Charges (Continued)

(D) Nonrecurring Charges (Continued)

(6) Service Rearrangement (Continued)



The customer requests the installation of a DS1 between the serving wire center (SWC) and CDL A and a DS1/voice multiplexer in the SWC. The customer also requests that the voiceband circuits serving CDLs 1, 2, and 3 be "rolled over" to the new DS1. All NRCs apply for the installation of the DS1 and multiplexer. No NRCs apply for the voiceband roll overs to the new high capacity circuit.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA
ISSUED: August 1, 2000
BY: President
Richmond, Virginia

Section 5
Original Page 32
EFFECTIVE: August 1, 2000

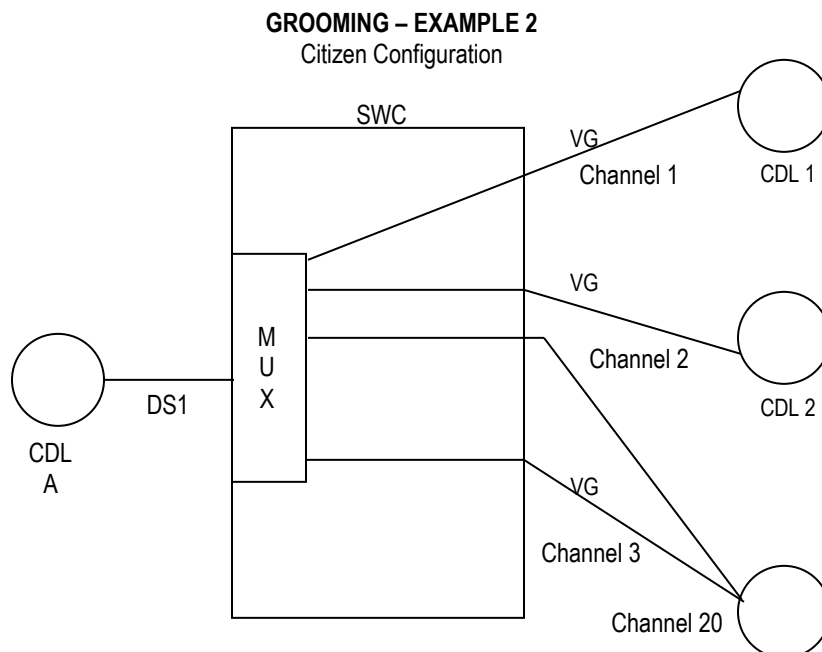
5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.1 Types of Rates and Charges (Continued)

(D) Nonrecurring Charges (Continued)

(6) Service Rearrangements (Continued)



The customer requests that the voiceband circuit serving CDL 3 be moved from channel 20 in the DS1 serving CDL A to Channel 3 in the same DS1. No NRCs apply for this request.

- If the change involves reterminations other than Rollovers and/or Grooming, all NRCs associated with the installation of the lower capacity service will apply.

In cases where multiple service rearrangements or an additional termination or a move and a service rearrangement are requested on a single ASR, the total charge will never exceed the full nonrecurring charge for the basic service.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 33

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.2 Minimum Periods

Special Access is provided for a specified minimum period. Minimum periods and minimum period charges are described in Section 3 preceding.

5.6.3 Mileage Measurement

The mileage to be used to determine the monthly rate for the Special Transport is calculated on the airline distance between the serving wire centers involved (i.e., CDL serving wire center or Hub Wire Center or WATS Serving Office). Where the calculated miles include a fraction, the value is always rounded up to the next full mile. Where the calculated value is zero, no Special Transport mileage is charged.

When there is a Hub Wire Center involved, the Special Transport mileage will be measured from the Hub Wire Center to the serving wire centers of each of the CDLs connected to the hubbed facilities. Mileage is computed for each section and rates are applied accordingly. However, when a Special Access facility is routed through a Hub Wire Center for purposes other than customer specified such as bridging or multiplexing (e.g. the Telephone Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the wire centers serving the CDLs.

The rates for the mileage are applied per airline mile. The serving wire center V&H coordinates and the method of calculation are specified in the ECA Tariff FCC No. 4.

5.6.4 Moves

A move involves a change in the physical location of the point of termination of Special Access. A move normally involves an interruption of Special Access for the period required to complete the move. No credit allowance will be granted for that period. Special Construction as set forth in Section 10 may also be applicable at the different CDL.

A customer may request that Special Access not be interrupted during a move. To comply with that request, it may be necessary to install a duplicate Special Access, and subsequently discontinue the existing Special Access. Charges, monthly and nonrecurring, will apply for the duplicate Special Access. A new minimum period will be established for the duplicate portion of the Special Access, depending on which end of the Special Access is moved. The customer will remain responsible for all minimum period charges associated with the corresponding portion of the disconnected Special Access.

The charge for the move depends on whether the move is within the same CDL or to a different CDL.

(A) Same CDL

When the move of a termination of FIA, as defined in Section 2.1.5, for special access is to a new point within the same CDL (same address and/or same building), the charge for the move will be the installation charge for the portion of the service being reterminated. There will be no change in the minimum period requirements. For services subject to payment plan regulations, the same payment period will remain in force.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 34
Cancels Original Page 34
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.4 Moves (Continued)

(B) Different CDL

- (1) When the move is to a different CDL (different address and different building), except as specified below, it will be treated as a disconnect and an installation of service. The appropriate service installation charge for the service termination(s) affected will apply. A new minimum period will be established for the installed Special Access Service. The customer will remain responsible for all minimum period charges associated with the disconnected Special Access Service. For services subject to payment plan regulations, a new payment plan will be established and full assessment of the remaining liabilities will be applicable.
- (2) When the move is to a different CDL but served by the same serving wire center, the following conditions apply:
 - A change ASR will be required.
 - The appropriate service installation charge for the service termination(s) affected will apply.
 - For Special Access services subject to payment plan regulations, if the customer of record remains the same with no lapse in service, the appropriate NRCs for changes will apply. Otherwise, the move will be treated as a disconnect and an installation of service and all appropriate NRCs and full assessment of the remaining liabilities will be applicable.

5.6.5 Rates and Charges on an Individual Case Basis

- (A) The monthly rates and nonrecurring charges for the following service offerings will be developed on an Individual Case Basis:
 - Full-time Videoband - Type I Facilities
 - High Capacity Digital DS1C (3.152 Mbps) Facilities
 - High Capacity Digital DS3C (89.472 Mbps) Facilities
- (B) The monthly rates and nonrecurring charges for the following Multiplexing Arrangements will be developed on an Individual Case Basis:

DS1C to Voice
DS1C to DS1
DS3 to DS1
DS3C to DS1
Group to DS1

(D)
|
(D)

(D)
|
(D)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 35
Cancels Original Page 35
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.5 Rates and Charges on an Individual Case Basis (Continued)

- (C) The monthly rates and nonrecurring charges for the following Supplemental Features will be developed on an Individual Case Basis:

Dataphone Select-a-Station Bridging Common Equipment - Addressable.

Dataphone Select-a-station Bridging - Each Four-Wire Port.

5.6.6 Hub Wire Centers

A Hub Wire Center is a Telephone Company designated serving wire center at which bridging or multiplexing arrangements are provided. Bridging is used to connect three or more CDLs in a multipoint arrangement. The multiplexing arrangements channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.

Although Hub Wire Centers are defined as serving wire centers at which bridging or multiplexing arrangements are performed, they are not limited to providing these functions and may provide any other types of Special Access services offered in this tariff. (C)

The Telephone Company will designate the Hub Wire Center locations. Different locations may be designated as Hub Wire Centers for different functions, such as bridging or multiplexing arrangements, for different facility capacities (e.g., multiplexing from digital to digital may occur at one wire center while multiplexing from digital to analog may occur at a different wire center). The location of Hub Wire Centers and the types of hubbing functions offered at that location are identified in the ECA Tariff FCC No. 4.

Some of the types of multiplexing provided include the following:

- from higher to lower bit rate,
- from higher to lower bandwidth,
- from digital to voice grade service.

The transmission performance for the end to end Special Access provided from CDLs will be that of the lower capacity or bit rate. For example, when a DS1 Special Access is multiplexed to voice frequency circuits, the transmission performance will be Voiceband, not High Capacity.

The Telephone Company will commence billing the monthly rate for the Special Access Line and Special Transport, for the High Capacity facility to the Hub Wire Center as of the service date, even though individual services utilizing those facilities may not be installed until a later date. If the customer has designated the type of multiplexing to be provided with the High Capacity facility, the nonrecurring charge for the Multiplexing Arrangement will be billed to the same customer at that same time, and the billing for the monthly rate will begin.

Individual Special Access rates (by Special Access type) will apply for the Special Access Line and additional Special Transport facilities (if required) for each channelized Special Access. These will be billed to the customer specified on the ASR as each individual Special Access is installed. The appropriate application of rate elements is specified in 5.1.1. Shared use of a digital high capacity facility is provided for in 5.6.7.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 36
Cancels Original Page 36
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.6 Hub Wire Centers (Continued)

(D)
|
(D)

At the request of the customer, the full-time and/or part-time services provided to a Hub Wire Center may be connected together in the following configurations: full-time to full-time, full-time to part-time, or part-time to part-time.

(D)
(D)

5.6.7 Shared Use Analog and Digital High Capacity Services

Monthly charges for a DS1 high capacity shared used facility will be apportioned between Switched and Special Access based on the relative proportion of channels used for switched and special access in the following manner.

If the facility is ordered as Special Access, rating as Special Access will continue until such time as a portion of the available capacity is used to provide Switched Access service. As individual channels are activated for Switched Access, monthly charges will be apportioned between Switched and Special Access based on the number of channels used for Switched Access and the number of remaining channels on the Special Access facility according to the following formula:

- The total shared use charge is equal to the Monthly Switched Access Charge times the number of channels used for Switched Access divided by 24 for DS1 or 672 for DS3 plus the monthly Special Access Charge times the number of channels remaining for Special Access divided by 24 for DS1.

If the facility is ordered as Switched Access, rating as Switched Access will continue until such time as a portion of the available capacity is used to provide Special Access service. As individual channels are activated for Special Access, monthly charges will be apportioned between Switched and Special Access based on the number of channels used for Special Access and the number of remaining channels on the Switched Access Facility according to the following formula:

- The total shared use charge is equal to the Monthly Special Access Charge times the number of channels used for Special Access divided by 24 for DS1 plus the monthly Switched Access Charge times the number of channels remaining for Switched Access divided by 24 for DS1 or 672 for DS3.

The monthly Switched and Special Access rate used will be the appropriate rate (Special Access SAL, Transport, Multiplexer Arrangements and Switched Access Entrance Facility, Direct-Trunked Transport, Multiplexer) for the underlying shared use facility, i.e., if the underlying facility is a Special Access DS3 service, the corresponding Switched Access DS3 Transport will be used to determine the Switched Access monthly charges.

Shared use of Special Access Fractional T1 (FT1) is not available.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 37

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.8 (Reserved for Future Use)

5.6.9 (Reserved for Future Use)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 38

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.10 (Reserved for Future Use)

5.6.11 (Reserved for Future Use)

5.6.12 Optional Payment Plan (OPP)

(A) General

- (1) The terms and conditions specified herein are applicable to FT1 and DS1 services. Additional terms and conditions for DS1 OPP are set forth in 5.6.12(H).
- (2) Only the Special Access Line (SAL) rate element is available under an OPP. All other associated rate elements or additional features are available at the standard month-to-month tariffed rates and regulations.
- (3) FT1 and DS1 OPP SAL rates will not be greater than standard month-to-month SAL rates.
- (4) Three year and five year OPP rates will be equal to or less than the one year OPP rates. Decreases to the one year OPP will flow through to the three year and five year OPP.
- (5) Payment periods of one year, three year, and five year are available to all customers at the applicable rates set forth in 5.7.7, 5.7.8 or 5.7.9(B) regardless of when they subscribe to an OPP arrangement.
- (6) The customer must designate on the ASR the payment period for the OPP.
- (7) Inside moves, provided in accordance with 5.6.4, will not incur termination liability charges.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 39

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.12 Optional Payment Plan (OPP) (Continued)

(A) General (Continued)

- (8) Outside moves provided in accordance with 5.6.4(B)(2) will allow the customer to retain the same OPP payment period. Any other move will be treated as a disconnect of the service and termination liability charges will apply.

(B) Changes in Length of OPP Period

Prior to the completion of the selected OPP period, the customer may elect to convert to a new OPP period of the same or different length, subject to the following conditions:

- No credit toward the new payment period will be given for payments made under the original OPP arrangement.
- Nonrecurring charges will not be reapplied for existing service(s).
- If the new OPP period is shorter in length than the time remaining under the existing OPP, the change to the new OPP period constitutes a disconnect of the existing OPP service and termination liability charges apply.

(C) Renewal Options

- (1) At the expiration of an OPP period, the Telephone Company will automatically renew the service at the same OPP period unless the customer chooses to convert to a different OPP period, convert to month-to-month rates or discontinue service.
- (2) Conversion to a different OPP period will require the customer to submit a change order ASR. Conversion to a different OPP period will be allowed without application of any nonrecurring or ordering charges.
- (3) Conversion to month-to-month rates will be treated as a disconnect of service and establishment of new service. If no other changes are ordered, no NRCs will apply.

(D) Notification of Discontinuance

An ASR for discontinuance of an OPP arrangement must be received by the Telephone Company at least thirty (30) days prior to actual disconnect of service. Monthly charges will apply for a period of thirty (30) days from the date the Telephone Company receives disconnect notification or until the requested disconnect date, whichever period is longer.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 40

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.12 Optional Payment Plan (OPP) (Continued)

(E) Upgrade to Higher Speed Service

Customer may elect to upgrade service(s) to a higher speed during OPP period, subject to the following conditions:

- The upgrade service will be subject to all appropriate nonrecurring charges.
- Termination liability charges will not apply as long as the upgraded service remains connected at the same point of termination(s) or meets the requirements set forth in 5.6.4(B)(2).
- If the upgrade involves establishing a multiplexing arrangement, termination liability charges will not apply if the hub wire center is the same one associated with the customer designated location.

(F) Termination Liability

When an OPP service is discontinued prior to the end of the period, termination liability charges, as set forth below, will apply based on the remainder of the OPP period in effect at the time of disconnect.

One Year OPP - 50% of any remaining portion of the first year's recurring charges.

Three Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second and third years, the customer will be liable for 10% of the total monthly recurring charges in that time period.

Five Year OPP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second through fifth years, the customer will be liable for 20% of the total monthly recurring charges in that time period.

Customer liability will be calculated as previously stated but will be limited to:

The dollar difference between 1) the amount the customer has already paid and, 2) any additional charges that the customer would have paid for service if the customer had taken a shorter term offering corresponding to the term actually used.

For example, if a customer with a five year OPP discontinues service six months after the end of the third year, the customer liability will not exceed:

$$[(\text{Three year monthly rate} - \text{Five year monthly rate}) \times 42 \text{ months}]$$

(G) Termination Without Liability

During an OPP period, should the currently effective rate for a customer's service increase, the customer may, at their option, terminate the OPP arrangement without penalty or liability.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 41

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.12 Optional Payment Plan (OPP) (Continued)

(H) OPP for DS1 Service

- (1) The terms and conditions of this OPP arrangement apply in addition to the above terms and conditions.
- (2) When a customer elects to participate in an OPP arrangement for DS1 service, only the "First System" DS1 SAL rate element is subject to the OPP terms and conditions.
- (3) Ordering and rating of DS1 service under an OPP arrangement is subject to the following conditions:
 - A "First System" DS1 OPP SAL must be assessed at a CDL before any "Additional System" DS1 SALs can be assessed.
 - Under an OPP arrangement, the same customer can order additional DS1 services at any time subsequent to establishing a "First System" DS1 OPP.
 - Under an OPP arrangement, the same customer can order DS1 services from its CDL to different terminating CDLs. The customer will be rated a "First System" DS1 OPP SAL for the first DS1 service at a CDL and the same customer will be rated an "Additional System" DS1 SAL for additional DS1 services at the same CDL. In this arrangement, each DS1 service will be rated based on a "First or Additional System" basis at each CDL.
 - The installation charge associated with DS1 services ordered under an OPP are set forth in Section 5.6.1(D)(3)(b).
 - When DS1 service is ordered between two CDLs and each SAL is rated as "First System" DS1 OPP SALs, the same payment period will apply to both SALs.
 - When ordering "Additional System" DS1 SALs, the customer will be required to provide remarks on the ASR necessary for the Telephone Company to complete the order. The ASR must specify the same customers "First System" DS1 OPP circuit identification (ECCKT) and access service group (ASG) at each CDL in order for the "Additional System" DS1 SAL rate to apply.
- (4) Should it become necessary for the customer to convert an "Additional System" DS1 SAL existing under an OPP arrangement to a "First System" DS1 OPP SAL to meet the rating requirement, the following ordering conditions and charges will apply. Credit will not be given for the time in service associated with the discontinued "First System" DS1 OPP SAL(s).

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 42

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.12 Optional Payment Plan (OPP) (Continued)

(H) OPP for DS1 Service (Continued)

(4) (Continued)

- A change order ASR is required when the conversion is to a "First System" DS1 OPP period equal to or greater than the discontinued DS1 OPP period and remains connected at the same CDL. A discontinuance of service ASR and establishment of new service ASR will be required to convert the "Additional System" DS1 SAL to a "First System" DS1 OPP SAL when the conversion is to a "First System" DS1 OPP period that is less than the discontinued DS1 OPP period and remains connected at the same CDL. No NRCs will apply.
- Both ends of the converted DS1 circuit must have the same payment period; however, termination liability charges will not apply to convert existing SALs.

(5) Upon expiration of an OPP, should the customer choose to convert to month-to-month rates, existing "Additional System" DS1 SALs under the customer's OPP arrangement must also be converted to comply with the rules and regulations set forth in 5.6.1(D)(3). The customer will be required to submit ASRs to disconnect existing service and establish new service. If no other changes are ordered, no charges will apply for the conversion. The ordering and installation of further "Additional System" DS1 services will be subject to the standard month-to-month arrangements.

(6) For conversion of existing month-to-month DS1 service(s) to an OPP arrangement, the customer will be required to submit a change order ASR to convert to the OPP. No service or billing interruption will occur when a customer converts from month-to-month rates to an OPP. If no other changes to the service(s) are ordered, no charges will apply.

(7) The Telephone Company will only initiate revisions to the rates in 5.7.7(C) to reduce the currently effective monthly recurring charge. Rate changes may occur as a result of Commission action.

(I) OPP for FT1 Service

A customer may change from DS1 OPP service to an FT1 OPP service subject to the following rate applications. Also, a customer may change the number of channels of an N x 56 Kbps or N x 64 Kbps service to another higher value of N (where N = 2, 4 or 6), subject to the following rate applications:

- The changed service will be subject to all appropriate nonrecurring charges.
- Termination liability charges will not apply as long as the changed service remains connected at the same point of termination(s) or meets the requirements of 5.6.4(B)(2).
- If the change involves establishing a multiplexing arrangement, termination liability charges will not apply if the hub wire center is the same one associated with the customer designated location.

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 43

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.6 Rate Regulations (Continued)

5.6.13 (Reserved for Future Use)

5.6.14 (Reserved for Future Use)

5.6.15 (Reserved for Future Use)

5.6.16 MetroLAN Special Transport

(A) Description

MetroLAN Special Transport (MetroLAN) provides DS1 transport between two or more serving wire centers located on a Telephone Company fiber optic ring. MetroLAN transport is provided at a flat-rate per month charge per DS1 transport facility, regardless of the number of miles the circuit is routed on the fiber ring.

(B) Conversion of Existing DS1 Transport

Current DS1 transport can be replaced by MetroLAN. Customers must submit an ASR to convert existing DS1 transport to MetroLAN.

(C) Discontinuance of Service

If a DS1 SAL is discontinued, DS1 transport for the MetroLAN transport portion of the circuit is also discontinued.

MetroLAN transport may be converted to standard special access transport rates (i.e., per airline mile) at any time at no charge.

(D) Continuation of Service Off the Ring

MetroLAN DS1 circuits can be routed any distance on a fiber optic ring. When the DS1 circuit leaves the ring for continuation on the network, normal tariff rates will be assessed for the portion of the route not on the ring.

(E) Service Availability

MetroLAN DS1 transport is available to all DS1 customers in the Telephone Company serving areas in which fiber optic rings are deployed. The wire centers in which MetroLAN is available are identified in NECA Tariff FCC No. 4.

FACILITIES FOR INTRASTATE ACCESS

**VERIZON SOUTH INC.
VIRGINIA**

**Section 5
Thirteenth Revised Page 44
Cancels Twelfth Revised Page 44
EFFECTIVE: June 1, 2022**

**ISSUED: April 29, 2022
BY: President
Richmond, Virginia**

5. SPECIAL ACCESS (Continued)

5.7 Rates and Charges

5.7.1 Nonrecurring Charges

Special Access Ordering Charges

<u>Design Change</u> <u>Per ASR/Per Occurrence</u>	<u>USOC</u>	<u>IOSC</u>
\$26.21	H28	11352

5.7.2 Voiceband Facilities

(A) Standard Arrangements

	<u>Monthly Rate</u>	<u>USOC</u>	<u>IOSC</u>	<u>Nonrecurring Charge</u>	<u>IOSC</u>
(1) Special Transport (Per Airline Mile)	\$ 26.22 (I)	1LFSX	74855 80133-MP	\$ -	-
(2) Special Access Line					
Two-Wire	224.57 (I)	EUC2X 1XC2X X2W	74594 81300	200.00	74594-NRC
Four-Wire	359.38 (I)	EUC4X 1XC4X X4W	74592 81302	200.00	74594-NRC

(B) Optional Arrangements

	<u>Monthly Rate</u>	<u>USOC</u>	<u>IOSC</u>
<u>Supplemental Features</u>			
(1) Multipoint Data Bridging (Per Port)	\$ 8.00	B5NDJ	75868
(2) Voice Conference Bridging (Per Port)	8.00	B5NVJ	21522
(3) Alarm Distribution Bridging			
Common Equipment	30.00	BCNTA	79364
Per Two-Wire Port	2.00	CNLRX	06904
(4) Conditioning Arrangements-Data			
Type C	11.12	X1CPT	77123
Type DA	2.00	XDCPT	77124
Type C - Improved	11.12	UHY; UHW; XCECM	81277
(5) Signaling Arrangement			
Loop Signaling Range Extension, per SAL	10.00	OSA	06824
Loop or E&M to SF, per SAL	16.00	OSB	75899
E&M to DX, per SAL	14.00	OSC	75880
E&M to Loop, per SAL	12.00	OSD	74953
Loop or E&M to PCM, per SAL	4.00	OSN	75898
(6) Echo Control			
Echo Cancellor, per circuit	85.00	ORJ	80049
(7) Voiceband Facility Switching Arrangement	7.00	UST	79325
(8) Improved Return Loss, per SAL	3.75	1RL	80705
(9) Improved Termination Option, per SAL	10.00	X4T	00143
(10) Improved Equal Level Echo Path, per SAL	3.75	ORP	80050

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 45
Cancels Original Page 45
EFFECTIVE: December 19, 2013

ISSUED: November 19, 2013
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.7 Rates and Charges (Continued)

5.7.3 (Reserved for Future Use)

(T)

(D)

(D)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: April 29, 2022
BY: President
Richmond, Virginia

Section 5
Thirteenth Revised Page 46
Cancels Twelfth Revised Page 46
EFFECTIVE: June 1, 2022

5. SPECIAL ACCESS (Continued)

5.7 Rates and Charges (Continued)

5.7.3 (Reserved for Future Use)

5.7.4 (Reserved for Future Use)

5.7.5 Digital Data Service Facilities (2.4, 4.8, 9.6, 19.2, 56, 64 Kbps)

(A) Standard Arrangements

		<u>Nonrecurring Charge</u>	<u>IOSC</u>	<u>Monthly Rate</u>	<u>USOC</u>	<u>IOSC</u>
(1)	Special Access Line 2.4, 4.8, 9.6 and 19.2 Kbps	\$250.00	75890	\$460.89 (I)	EUCXX LCH	75850
	56 and 64 Kbps	250.00	75890	605.00 (I)	EUCXX LCH	75854
(2)	Special Transport (Per Airline Mile) 2.4, 4.8, 9.6 and 19.2 Kbps	-	-	31.78 (I)	1LFSX	75839; 74572-MP
	56 and 64 Kbps	-	-	31.78 (I)	1LFSX	75839; 74572-MP

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED:

BY:

April 29, 2022

President

Richmond, Virginia

Section 5

Twelfth Revised Page 47

Cancels Eleventh Revised Page 47

EFFECTIVE: June 1, 2022

5. SPECIAL ACCESS (Continued)

5.7 Rates and Charges (Continued)

**5.7.5 Digital Data Service Facilities (Continued)
(2.4, 4.8, 9.6, 19.2, 56, 64 Kbps)**

(B) Optional Arrangements

		<u>Monthly Rate</u>	<u>USOC</u>	<u>IOSC</u>
(1)	Supplemental Features			
(a)	DDS Bridging (Per Port)	\$11.00	BCNDA	75859
(b)	Secondary Channel	7.00	SCA24 SCA48 SCA56 SCA96	78425

5.7.6 Multiplexing Arrangements

		<u>Nonrecurring Charge</u>	<u>IOSC</u>	<u>Monthly Rate</u>	<u>USOC</u>	<u>IOSC</u>
(1)	DS1 to Voice	\$ 800.00	14363-NRC	\$190.00	MQ1 MQJ++	14363
(2)	Digital Data Carrier Multiplexer	1,500.00	14521-NRC	550.00	QMU	14521
(3)	Digital Data Subrate Multiplexer					
	One DS0 to twenty 2.4 kbps	800.00	21950	160.00	QSU24	21941
	One DS0 to ten 4.8 kbps	800.00	21950	120.00	QSU48	21942
	One DS0 to five 9.6 Kbps	800.00	21950	100.00	QSU96	21850

5.7.7 High Capacity Digital DS1 (1.544 Mbps) Facilities

(A) Standard Arrangements

		<u>Nonrecurring Charge</u>	<u>IOSC</u>	<u>Monthly Rate</u>	<u>USOC</u>	<u>IOSC</u>
(1)	Special Access Line First System	\$900.00	21331-NRC	\$1,653.86 (I)	EUW 1XCDX	21331
	Each Additional System	900.00	21331-NRC	1,119.97 (I)	EU8 1XCAX EU4EX 1CKEX	14324
(2)	Special Transport Termination	-	-	169.06 (I)	TRG	21337
(3)	Special Transport (Per Airline Mile)	-	-	99.53 (I)	1LFSX	75914 13529-MP

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 48

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.7 Rates and Charges (Continued)

5.7.7 High Capacity Digital DS1 (1.544 Mbps) Facilities (Continued)

(B) Optional Arrangements

		<u>Nonrecurring Charge</u>	<u>IOSC</u>	<u>Monthly Rate</u>	<u>USOC</u>	<u>IOSC</u>
(1)	Supplemental Features					
	Automatic Protection Switching	\$ 700.00	13515-NRC	\$ 100.00	APP	13515
(2)	MetroLAN - Special Transport, per DS1	-	-	75.00	10XTX	78353 00139-MP

(C) DS1 Optional Payment Plan

(1) "First System" DS1 Special Access Line

	<u>Monthly Rate</u>	<u>USOC</u>	<u>IOSC</u>
One Year	\$270.00	EU4CX; 1CKCX	14321
Three Year	230.00	EU4AX; 1CKAX	14314
Five Year	195.00	EU4BX; 1CKBX	21333

5.7.8 (Reserved for Future Use)

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: April 29, 2022
BY: President
Richmond, Virginia

Section 5
Twelfth Revised Page 49
Cancels Eleventh Revised Page 49
EFFECTIVE: June 1, 2022

5. SPECIAL ACCESS (Continued)

5.7 Rates and Charges (Continued)

5.7.9 High Capacity Digital FT1 Facilities

(A) Standard Arrangements

		Nonrecurring Charge (IOSC: 95557)	Monthly Rate	USOC	IOSC
(1)	Special Access Line				
	2 x 56 Kbps (or) 2 x 64 Kbps	\$400.00	\$584.99 (I)	EU4JX 1CKJX	95558
	4 x 56 Kbps (or) 4 x 64 Kbps	400.00	628.99 (I)	EU4JX 1CKJX	95559
	6 x 56 Kbps (or) 6 x 64 Kbps	400.00	673.02 (I)	EU4JX 1CKJX	95560
(2)	Special Transport Termination				
	2 x 56 Kbps (or) 2 x 64 Kbps		\$ 67.55 (I)	TRG	95573
	4 x 56 Kbps (or) 4 x 64 Kbps		101.36 (I)	TRG	95574
	6 x 56 Kbps (or) 6 x 64 Kbps		135.23 (I)	TRG	95575
(3)	Special Transport (Per Airline Mile)				
	2 x 56 Kbps (or) 2 x 64 Kbps		\$ 30.94 (I)	1LFSX	95570 95060-MP
	4 x 56 Kbps (or) 4 x 64 Kbps		36.60 (I)	1LFSX	95061 95064-MP
	6 x 56 Kbps (or) 6 x 64 Kbps		42.18 (I)	1LFSX	95572 95067-MP

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.

VIRGINIA

ISSUED: August 1, 2000

BY: President
Richmond, Virginia

Section 5

Original Page 50

EFFECTIVE: August 1, 2000

5. SPECIAL ACCESS (Continued)

5.7 Rates and Charges (Continued)

5.7.9 High Capacity Digital FT1 Facilities (Continued)

(B) FT1 Optional Payment Plans

		One Year Monthly Rate	Three Year Monthly Rate	Five Year Monthly Rate
		(USOC) (EU4KX)	(EU4KX)	(EU4KX)
		(USOC) (1CKKX)	(1CKKX)	(1CKKX)
(1)	Special Access Line			
	2 x 56 Kbps (or)			
	2 x 64 Kbps	\$ 100.00	\$ 90.00	\$ 80.00
		(IOSC) (95561)	(95562)	(95563)
	4 x 56 Kbps (or)			
	4 x 64 Kbps	110.00	99.00	88.00
		(IOSC) (95564)	(95565)	(95566)
	6 x 56 Kbps (or)			
	6 x 64 Kbps	119.00	107.10	95.20
		(IOSC) (95567)	(95568)	(95569)
		<u>Monthly Rate</u>	<u>USOC</u>	<u>IOSC</u>
(2)	Special Transport Termination			
	2 x 56 Kbps (or)			
	2 x 64 Kbps	\$ 12.00	TRG	95573
	4 x 56 Kbps (or)			
	4 x 64 Kbps	18.00	TRG	95574
	6 x 56 Kbps (or)			
	6 x 64 Kbps	24.00	TRG	95575
(3)	Special Transport (Per Airline Mile)			
	2 x 56 Kbps (or)			
	2 x 64 Kbps	\$ 5.50	1LFSX	95570 95060-MP
	4 x 56 Kbps (or)			
	4 x 64 Kbps	6.50	1LFSX	95061 95064-MP
	6 x 56 Kbps (or)			
	6 x 64 Kbps	7.50	1LFSX	95572 95067-MP

FACILITIES FOR INTRASTATE ACCESS

VERIZON SOUTH INC.
VIRGINIA

Section 5
First Revised Page 51
Cancels Original Page 51
EFFECTIVE: December 10, 2005

ISSUED: November 10, 2005
BY: President
Richmond, Virginia

5. SPECIAL ACCESS (Continued)

5.8 Miscellaneous Special Access Services

5.8.1 Clear Channel Capability (USOC - CCO)

(A) Description of Service

An arrangement that allows the customer to transport 1.536 Mbps of information through a DS1 with no constraint on the quantity or sequence of one (mark) and zero (space) bits utilizing the Bipolar with Eight Zero Substitution (B8ZS) method of providing bit sequence independence. This arrangement is capable of transporting DS1 signals which utilize Superframe or Extended Superframe Format (ESF) as defined by the American National Standards Institute (ANSI) T1.107-1988 standard. The installation interval for Clear Channel Capability may exceed standard intervals where equipment in the central office is not readily available. The charges apply on a per SAL basis. Clear Channel Capability for DS1 is provided under Section 11.8.3(G) to the Federal Government.

This arrangement requires the customer signal at the channel interface to conform to the B8ZS method of providing bit sequence independence, as described in ANSI T1.102-1987 and Section 6103 of the Verizon (T) Technical Interface Reference Manual.

The DS1 Special Access Line provided under this tariff will not be billed when used with ISDN PRI that uses alternate higher capacity digital facilities for loop transport. This includes, i.e., providing service under a local Optical Networking tariff when the optical node is at the same location, DS3s, or comparable local tariffs and special assemblies. A DS1 Special Access Line provided to the serving wire center at which the customer obtains ISDN PRI Service will be transmitted with B8ZS Clear Channel Capability per Technical Reference Publication GR-342, Issue 1. (N)

(B) Rates

<u>Nonrecurring</u>	<u>Monthly</u>			
<u>Charge</u>	<u>IOSC</u>	<u>Rate</u>	<u>USOC</u>	<u>IOSC</u>
\$90.00		13517-NRC	\$24.00	CCO 13517

5.9 Individual Case Basis Rates and Charges

(Reserved for Future Use)