

ACCESS SERVICE CHECK SHEET

Title Pages 1 and 2 and Pages 1 to 25-126 inclusive of this tariff are effective as of the date shown. Original and revised pages as named below and Supplement Nos. 13, 14, 15, 16, 17, 19, 20, 28, 29, and 31 contain all changes from the original tariff that are in effect on the date hereof.

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2	176th*	33	7th	2-17	5th
3	17th	34	4th	2-18	4th
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6	60th	37	15th	2-21	5th
7	84th*	37.1	32nd	2-22	4th
8	58th*	37.1.1	26th	2-22.1	4th
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9	91st*	37.2	7th	2-23.1	1st
9.1	35th	37.3	Original	2-23.2	1st
9.2	5th	38	3rd	2-24	1st
10	47th*	39	8th	2-25	2nd
11	33rd*	40	11th*	2-26	5th
11.1	1st	41	10th	2-26.1	2nd
12	12th	42	6th	2-26.2	2nd
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13	44th*	43.1	Original	2-27	4th
13.1	1st	44	3rd	2-27.1	1st
14	57th	45	2nd	2-28	1st
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15	49th*	45.2	1st	2-29.1	1st
16	37th	46	12th	2-30	3rd
16.1	38th	46.1	1st	2-31	3rd
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16.2.3	10th			2-34.1	1st
16.2.4	8th	1-1	6th	2-35	1st
16.2.5	7th			2-36	1st
16.3	22nd	2-1	Original	2-37	4th
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17	1st	2-4	Original	2-40	1st
18	9th	2-5	1st	2-40.1	3rd
19	3rd	2-6	Original	2-40.2	5th
19.1	1st	2-7	3rd	2-41	1st
20	2nd	2-8	3rd	2-42	1st
21	5th*	2-9	4th	2-43	1st
22	10th	2-9.1	Original	2-44	1st
22.1	2nd	2-10	2nd	2-45	2nd
23	1st	2-11	3rd	2-46	3rd
24	1st	2-11.1	Original	2-47	2nd
25	1st	2-12	2nd	2-48	1st
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2-55	2nd	2-83.2	2nd	2-83.45	1st
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2-55.6	5th	2-83.9	Original		
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2-72	3rd	2-83.29	1st		
2-72.1	4th*	2-83.30	1st		
2-73	2nd	2-83.31	1st		
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3-19	1st	4-31	7th	5-21	1st
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4-4	1st	4-36	1st	5-28	4th
4-5	1st	4-37	2nd	5-28.1	Original
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4-10	6th	4-41	Original	5-30.1.2	3rd*
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7-190	3rd			7-227.19	1st
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				7-227.21	1st
				7-227.22	1st
				7-227.23	1st
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7-234	10th*	7-253	6th	7-278.1	8th
7-235	11th	7-253.1	5th	7-279	18th
7-236	10th*	7-253.2	5th	7-279.1	8th
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EXPLANATION OF ABBREVIATIONS

EDD	-	Envelope Delay Distortion
ELEPL	-	Equal Level Echo Path Loss
EML	-	Expected Measured Loss
EPL	-	Echo Path Loss
ERL	-	Echo Return Loss
ESCON	-	Enterprise Systems CONnection
ESS	-	Electronic Switching System
ESSX	-	Electronic Switching System Exchange
f	-	frequency
F.C.C.	-	Federal Communications Commission
FICON	-	Fibre CONnection
FID	-	Field Identifier
FX	-	Foreign Exchange
GigE	-	Gigabit Ethernet
HC	-	High Capacity
Hi-Def	-	High Definition
Hz	-	Hertz
IC	-	Interstate Customer
ICB	-	Individual Case Basis
ICL	-	Inserted Connection Loss
IOF	-	Inter-Office Facility
IP	-	Interconnection Point
kbps	-	kilobits per second
KHz	-	kilohertz
LAN	-	Local Area Network
LATA	-	Local Access and Transport Area
LCC	-	Line Cost Charge
LES	-	LAN Extension Service
LIIDB	-	Line Information Data Base
Ma	-	milliamperes
Mbps	-	Megabits per second
MHz	-	Megahertz
MMUC	-	Minimum Monthly Usage Charge
MRC	-	Monthly Recurring Charge
MRCCs	-	Maritime Radio Common Carriers
MSA	-	Metropolitan Statistical Area
MTS	-	Message Telecommunications Service(s)
MTSO	-	Mobile Telephone Switching Office
NDP	-	National Discount Plan
N-MSA	-	Non-qualifying MSA
NPA	-	Numbering Plan Area
NRC	-	Nonrecurring Charge
NTS	-	Non-Traffic Sensitive
NXX	-	Three Digit Central Office Code
OBSC	-	Out of Band Signaling Connection
OCF	-	Optical Channel Facility
OCF-G	-	Optical Channel Facility - Gigabit
OHF	-	Optical Hubbing Facility
OHI	-	Optical Hubbing Interface
OHS	-	Optical Hubbing Service
OTPL	-	Zero Transmission Level Point

(D)

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ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Immediately Available Funds

The term "Immediately Available Funds" denotes a corporate or personal check drawn on a bank account that has completed the clearing process and funds which are available for use by the receiving party on the same day on which they are received, including U.S. Federal Reserve bank wire transfers and Automated Clearinghouse (ACH) payments.

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Impedance Balance

The term "Impedance Balance" denotes the method of expressing Echo Return Loss and Singing Return Loss at a 4-wire interface whereby the gains and/or loss of the 4 wire portion of the transmission path, including the hybrid, are not included in the specification.

Impulse Noise

The term "Impulse Noise" denotes any momentary occurrence of the noise on a channel over a specified level threshold. It is evaluated by counting the number of occurrences which exceed the threshold.

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ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)N-1 Carrier

Denotes the carrier that is delivering a call to the Telephone Company's switch and is responsible for determining the status and Location Routing Number of the dialed NXX.

Native Ethernet

Denotes an Ethernet transmission that is not carried within a SONET signal.

Network Address

Numeric character string used to specify the location of the called customer.

Network Control Signaling

The term "Network Control Signaling" denotes the transmission of signals used in the telecommunications system which perform functions such as supervision (control, status, and charge signals), address signaling (e.g., dialing), calling and called number identifications, rate of flow, service selection error control and audible tone signals (call progress signals indicating re-order or busy conditions, alerting, coin denominations, coin collect and coin return tones) to control the operation of the telecommunications system.

Network Interface Device

The term "Network Interface Device" denotes any Company provided means of interconnection of end user customer premises wiring to the Local Exchange Carrier's distribution plant, such as a cross connect device used for that purpose.

Non-Competitive County

The term "Non-Competitive County" denotes the geographic unit of a county or county-equivalent that failed a competitive market test specified by the FCC (excluding those that were granted Phase II, Level 2 pricing flexibility prior to June 1, 2017 and thus are defined as "Competitive Counties").

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2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Physically-Collocated Interconnection

The term "Physically-Collocated Interconnection" denotes an arrangement where the Collocator's facilities will be interconnected with Collocator owned and provided equipment that is physically located in a Collocated Interconnection Space within a Telephone Company central office building. The standard method of interconnection is through a point of interconnection (POT) bay. Collocators may propose alternative means of interconnection that are technically feasible by submitting a bona fide request for negotiation. (See Note below.)

Point of Termination

The term "Point of Termination" denotes the point of demarcation, within a customer-designated premises at which the Telephone Company's responsibility for the provision of Access Service ends.

Post-Installation Inspection

The term "Post-Installation Inspection" under Collocated Interconnection denotes the work activities performed to visually observe Collocator's equipment and cable facilities and equipment installation during and after the completion of the installation of such equipment and facilities to determine that all occupancies conform to the standards required.

Pre-Construction Work

The term "Pre-Construction Work" under Collocated Interconnection denotes the work activities performed by Telephone Company in order to process an application for occupancy to the point just prior to performing any necessary Design and Construction Work.

Premises

The term "Premises" denotes a building or a portion of a building in a multitenant building, or buildings on a continuous property (except Railroad right-of-way, etc.) not separated by a public highway except for an end user that offers Telecommunications Services exclusively as a reseller, this term is not to be limited to one building, but applies as well to a complex, or campus-type configuration, or buildings. "Premises" does not include Collocated Interconnection Space.

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Note: See Section 19 following for further information.

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ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service (Cont'd)5.2 Access Order (Cont'd)5.2.3 Cancellation of an Access Order (Cont'd)

(B) (Cont'd)

(3) (Cont'd)

	<u>APP</u>	<u>SID</u>	<u>DLRD</u>	<u>RID</u>	<u>WOT</u>	<u>PTD</u>
FGA ¹	0%	9%	19%	37%	100%	100%
FGB ²	0%	8%	17%	32%	100%	100%
FGD ⁴	0%	7%	18%	32%	100%	100%
CCSAS	0%	7%	18%	32%	100%	100%
(D)						
OTS	0%	7%	18%	32%	100%	100%
R/T*	0%	20%	50%	75%	90%	100%
MT DNAL	0%	22%	39%	39%	68%	100%
S56	0%	7%	18%	32%	100%	100%
VG ⁶	0%	8%	17%	17%	74%	100%
WAC	0%	7%	18%	32%	100%	100%
TV	0%	10%	25%	50%	75%	100%
SCVS	0%	10%	25%	50%	75%	100%
DA	0%	10%	21%	21%	70%	100%
HC	0%	6%	21%	21%	74%	100%

1 and Lineside BSA
2 and Trunkside BSA - 950 Option
4 and Trunkside BSA-101XXXX Option
6 and Voice Grade DNAL

* Trunk Routing/Switch Translation (R/T) installation orders are those that require translations software changes only. Routing/Translation Software installation includes, but is not limited to, 900 NXX code changes.

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ACCESS SERVICE

5. Ordering Options for Switched and Special Access Service (Cont'd)5.2 Access Order (Cont'd)5.2.3 Cancellation of an Access Order (Cont'd)

(B) (Cont'd)

(4) (Cont'd)

	<u>APP</u>	<u>SID</u>	<u>DLRD</u>	<u>RID</u>	<u>WOT</u>	<u>PTD</u>
ISAN						
(per Transport Channel)						
- DS1	\$0	\$75.00	\$187.50	\$750.00	\$750.00	\$750.00
- DS3	0	200.00	500.00	2,000.00	2,000.00	2,000.00
- OC3 & OC3c	0	364.00	1820.00	3,640.00	3,640.00	3,640.00
(per Entrance Ring POP)						
0		150.00	375.00	1,500.00	1,500.00	1,500.00
Special Access ISDP¹						
0		20.00	50.00	200.00	200.00	200.00
Special Access ISDP²						
0		20.00	50.00	200.00	200.00	200.00
Switched Access ISDP						
0		20.00	50.00	200.00	200.00	200.00
LAN Extension Service						
0		140.00	280.00	1,400.00	1,400.00	1,400.00

(D)

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1 Price Cap

2 Price Bands 4, 5, and 6

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(B) Technical Specifications Packages (Cont'd)

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference TR-NWT-000335, Issue 3. The technical specifications for dropouts, phase hits, and gain hits are delineated in Technical Reference PUB 41004, Table 4.

(C) Channel Interfaces

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

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

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

(D) Optional Features and Functions(1) Central Office Bridging Capability

(a) Voice Bridging (two-wire and four-wire)

(D)

(b) Telephoto Bridging (two-wire and four-wire)

(T)

(D)

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(D)

Service availability limited. Refer to # footnote on Page 7-19.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(1) Central Office Bridging Capability (Cont'd)

(e) Telemetry and Alarm Bridging

Split Band, Active Bridging

Active Bridging

(D)

(D)

(2) Reserved(3) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing Current helps maintain continuity on dry metallic loops.

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

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid link or end link. C-Type conditioning and Data Capability may be combined on the same service.

Service availability limited. Refer to # footnote on Page 7-19.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service# (Cont'd)

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

(6) Data Capability (Cont'd)

- Intermodulation distortion:
- Signal to second order modulation products (R2)
is equal to or greater than 38dB
- Signal to third order modulation products (R3)
is equal to or greater than 42dB

When a service equipped with Data Capability is
used for voice communications, the quality of
the voice transmission may not be satisfactory.

(7) Reserved.

(C)

(D)

(D)

Service availability limited. Refer to # footnote on Page 7-19.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(8) Signaling Capability

Signaling Capability provides for the process by which one customer premises alerts another customer premises on the same service with which it wishes to communicate.

(9) Reserved

(C)

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(D)

(10) Reserved

(C)

(D)

(D)

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package VG-												
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
C-Type Conditioning	X					X	X	X	X	X	X		
Central Office													
Bridging													
Capability	X		X			X	X				X	X	X
Central Office													
Multiplexing	X						X						

Service availability limited. Refer to # footnote on Page 7-19.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)

	Available with Technical Specifications Package VG-												
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
Data Capability	<u>X</u>						<u>X</u>	<u>X</u>			<u>X</u>		
Improved Termination													
For Effective													
Four-Wire													
Transmission	X	X	X	X	X	X	X	X	X	X	X	X	X
Improved Return Loss													
For Effective													
Two-Wire													
Transmission	X		X	X			X	X			X		
Sealing Current													
Conditioning													
For Effective													
Four-Wire													
Transmission	X					X	X				X		
Signaling Capability	X	X	X	X				X	X	X			

(D)
(D)
(D)
(D)(11) Effective Four-Wire Transmission with Two-Wire Interface

When a customer requests that an effective Four-Wire channel be terminated with a Two-Wire interface at the customer designated premises, then this optional feature applies. Placement of Telephone Company Equipment (Hybrid) is required at the customer's premises to convert the Four-Wire channel to the Two-Wire POT. When this option is ordered, a Four-Wire channel termination charge applies. Per the voice grade technical references, certain voice grade service are always provisioned as Four-Wire services and will be billed as a Four-Wire Channel Termination.

Service availability limited. Refer to # footnote on Page 7-19.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.5 Video Service(A) Service Description

A basic Video channel is a channel with one-way transmission capability for a standard 525 line/60 field monochrome, or National Television Systems Committee color, video signal and one or two associated 5 or 15 kHz audio signal(s). Video channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

Video Service is provisioned as either Basic Service or as Multichannel Service.

1. Basic Video Service

Basic Video Service is a single video channel with one or two associated 5 or 15 kHz audio signals. The audio signal may be either diplexed or provided as separate channels. The provision and the bandwidth of the associated audio signal(s) is a function of the channel interface selected by the customer.

Basic Video Service is provided on a full-time or part-time (i.e., daily) basis. At the option of the customer, Basic Video Service channels may be provided under a Service Discount Plan as specified in Section 25.2 following.

2. Multichannel Video Service

Multichannel Video Service is a service arrangement of three to eight video channels provisioned over a single fiber. One or two separate 15 kHz audio signal(s) is associated with each video channel.

(D)

All electronics are owned and provided by the Telephone Company.

(D)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.5 Video Service (Cont'd)(C) Channel Interfaces (Cont'd)

<u>CI</u>	<u>Audio Bandwidth</u>	<u>Provision</u>
2TV7-2	15kHz	2 Channels, diplexed
4TV6-5	5kHz	1 Channel, separate
4TV6-15	15kHz	1 Channel, separate
4TV7-5	5kHz	1 Channel, separate
4TV7-15	15kHz	1 Channel, separate
6TV6-5	5kHz	2 Channels, separate
6TV6-15	15kHz	2 Channels, separate
6TV7-5	5kHz	2 Channels, separate
6TV7-15	15kHz	2 Channels, separate

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

(D) Optional Features and Functions(1) Video Matrix Switching*

Video switch arrangements are only provisioned at Video Hubs as specified in N.E.C.A. Tariff F.C.C. No. 4. A separate voice grade data control channel is required to operate the switch arrangement and is not included as part of the option.

a) Basic 20X10 Video Switch Arrangement*

An arrangement which will enable the customer to switch video transmission carried on special access video channels originating from up to twenty (20) locations and terminating at up to ten (10) locations (20 x 10).

b) Video Switch Arrangement Expansion Module*

The expansion module is additional equipment which allows expansion of a basic 20X10 video switch to another 20X10 video switch to allow operation to twenty (20) originating and twenty (20) terminating locations (20X20).

(D)
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(D)

* **Note: Effective April 20, 2002, the services described in (D)(1)(a) - (c) are no longer available to new customers. Instead, new customers should see (D)(5) for Advanced Video Switching.**

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.5 Video Service (Cont'd)(D) Optional Features and Functions (Cont'd)

(1) Video Matrix Switching* (Cont'd)

(D)

(D)

c) 48 X 48 Video Switch Arrangement*

(T)

An arrangement that allows the customer to switch transmissions originating at up to 48 locations and terminating at up to 48 locations. This switch is equipped with one general purpose interface.

(D)

(D)

(2) Video Patch Arrangement

An arrangement which allows video switch customers to connect video switches located in the same Video Hub and switch video channels between each other. This arrangement is only provisioned in Video Hubs as specified in N.E.C.A. Tariff F.C.C. No. 4.

* Note: Effective April 20, 2002, the services described in (D)(1)(a) - (c) are no longer available to new customers. Instead, new customers should see (D)(5) for Advanced Video Switching. (T)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Digital Data Service# (Cont'd)(C) Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a Digital Data channel:

<u>CI</u>	<u>Bit Rate</u>
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-96	9.6 kbps
DU-19	19.2 kbps
DU-56	56.0 kbps
DU-64	64.0 kbps

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

(D) Optional Features and Functions

- (1) Central Office Bridging Capability
- (2) Reserved

(C)

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(D)

(3) Secondary Channel

Secondary Channel (SC) is an optional arrangement which provides a derived lower speed Digital Data companion channel which is independent of the primary Digital Data Service channel. SC allows customers to perform Network Management, diagnostic and maintenance applications on their Digital Data Networks.

Service availability limited. Refer to # footnote on Page 7-58.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Digital Data Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(3) Secondary Channel (Cont'd)

Secondary Channel is provided only at the 2.4, 4.8, 9.6 and 56 kbps DDS speeds and is available as a point-to-point or multipoint service except for multipoint service at 56 Kbps. Due to transmission equipment restrictions, SC cannot be provided on 56 Kbps circuits that require the installation of Loop Repeater equipment.

The Secondary Channel option is only available on new orders for service. The addition of SC to an existing Digital Data Service will be treated as a disconnect of the existing service and a new connect for the service with SC.

The Technical specifications for this feature are as described in Technical Reference TR-NPL-000157, Issue 1. The bit rates of the SC are as shown in the following table:

<u>Digital Data Channel Transmission Speed</u>	<u>Secondary Channel Transmission Speed</u>
2.4 Kbps	133 bps
4.8 Kbps	266 bps
9.6 Kbps	533 bps
56.0 Kbps	2.666 Kbps

The following table shows the technical specifications packages with which the optional features and functions are available.

	<u>Available with Technical Specifications Package DA-</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Central Office Bridging Capability	X	X	X	X
Secondary Channel	X	X	X	X

(D)

Service availability limited. Refer to # footnote on Page 7-58.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service

(A) Basic Channel Description

A High Capacity channel is a channel for the digital transmission of 1.544, 3.152, or 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises, between a customer designated premises and a Telephone Company Hub, between a customer designated premises and a wire center where connection to an advanced data service# occurs, or Hub-to-Hub for IntelliMux® Service(s) at 1.544 and 44.736 Mbps transmission. High Capacity channels may also be connected to the following Telephone Company provided services, provided that such connections are technically and operationally feasible, as determined by the Telephone Company:

in-service integrated optical service
in-service point to point SONET service

(1) DS1 High Capacity/1.544 Mbps Service

DS1 service (a 1.544 Mbps facility) is provided with an electrical interface.

A nominal 64.0 kbps service is available only as a channel of a 1.544 Mbps facility between two Telephone Company Digital Data Hubs or as a cross connect of two 2.4, 4.8, 9.6, 19.2, 56.0, or 64.0 kbps channels of two DS1 services at a Digital Data Hub(s). The customer must provide system and channel assignment data.

(2) DS3 High Capacity/44.736 Mbps Services

DS3 service is available in standard channel termination configurations and is provided with an electrical interface.

(D)

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Advanced data services include frame relay services and ATM-cell relay services.

(D)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(A) Basic Channel Description (Cont'd)(2) DS3 High Capacity/44.736 Mbps Services (Cont'd)

(D)

(D)

DS3 channels can be connected at the wire center serving that premises to individual terminating DS3 channels, individual DS3 channels for multiplexing at designated Hubs, or to other DS3 services for multi-DS3 premises-to-premises connections. DS3 Channel Mileage is provided on an individual DS3 channel basis. The DS3 to DS1 multiplexing function is available in Telephone Company Hubs as indicated in the Exchange Carrier Association Tariff F.C.C. No. 4.

(D)

The customer also has the option of ordering DS3 High Capacity channels with a DS3 Premises Multiplexer for multiplexing to individual DS1 High Capacity channels at a customer designated premises. All of the derived DS1 High Capacity channels must terminate at that customer designated premises.

(D)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(B) Technical Specifications Packages

<u>Parameter</u>	<u>Package HC-</u>			
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>3</u>
Error-Free Seconds				X

(C) Channel Interfaces

Compatible channel interfaces are set forth in 7.3.5(J) following. The following channel interfaces (CIs) define the bit rates that are available for a High Capacity channel:

<u>CI</u>	<u>Bit Rate</u>
DS-15	1.544 Mbps (DS1)
DS-44	44.736 Mbps (DS3)

(D)

(D)

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(D)

(D) Optional Features and Functions(1) Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer premises. The customer is responsible for providing the equipment at its premises. Equipment at the customer premises will be provided under tariff only if it existed in the Telephone Company inventory as of November 18, 1983. This feature is not available with channels utilizing the clear channel capability (B8ZS) Line Code.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(2) Transfer Arrangement

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

(3) Central Office Multiplexing(a) DS3 to DS1

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

(b) Reserved.

(C)

(D)

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(D)

(c) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS1 to the Hub can also be used for WATS Access Line Services.

(d) DS1 to Digital

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with individual digital data circuits to the Hub at speeds of 2.4, 4.8, 9.6, 19.2, 56, or 64 Kbps. A channel(s) of this DS1 to the Hub can also be used for WATS Access Line or Voice Grade Services.

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(8) DS3 Premises Multiplexer (Cont'd)

- (e) The DS3 Premises Multiplexer optional feature may not be used on a DS3 High Capacity Service that is derived from a higher capacity service at the same customer designated premises (e.g., a DS3 High Capacity Service that is derived at that customer designated premises from an OC12 level service or node).
- (f) A Message Station Equipment Recovery Charge as set forth in Section 7.4.3 following may also apply.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package HC-			
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>3</u>
Automatic Loop Transfer				X
Central Office Multiplexing:				
DS3 to DS1				X
DS1 to Voice				X
DS1 to Digital				X
DS1 to DS0				X
DS0 to Subrate*				X
Clear Channel Capability		X		X
Extended Super Frame Format				X
DS3 Premises Multiplexer				X

(D)

(D)

* Available only on a channel of a 1.544 Mbps facility to a Telephone Company Hub.

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DD -		DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination
DE -		DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination
DS -		digital hierarchy interface
- 15		1.544 Mbps (DS1) format per PUB 62411 and Supplement A plus D4
- 15B		1.544 Mbps (DS1) format per PUB 62411 and Supplement A plus D4 with B8ZS clear channel capability
- 15E		8-bit PCM encoded in one 64 Kbps of the DS1 signal
- 15F		8-bit PCM encoded in two 64 Kbps of the DS1 signal
- 15G		8-bit PCM encoded in three 64 Kbps of the DS1 signal
- 15H		14/11-bit PCM encoded in six 64 Kbps of the DS1 signal
- 15J		1.544 Mbps format per Technical Reference GR-54-CORE, Issue 1
- 15K		1.544 Mbps format per Technical Reference GR-54-CORE, Issue 1, plus extended framing format
- 15L		1.544 Mbps (DS1) with SF signaling
- 15S		1.544 Mbps (DS1) with B8ZS clear channel capability per Technical Reference Technical Reference GR-342-CORE, Issue 1, plus extended framing
- 44		44.736 Mbps (DS3)
44A		44.736 Mbps (DS3 unchannelized and C-Bit Parity per GR-342
44I		44.736 Mbps (DS3) with C-Bit Parity format
- 44L		44.736 Mbps (DS3) with SF signaling

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7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.3 Digital Hierarchy Channel Interface Codes (4DS)

This interface is available to customers that select the multiplexed four-wire DSX-1 or higher facility interface option at the customer designated premises. Customers who have installed multiplexed DS1 systems to a Facility Hub and are connecting individual facilities to these systems to complete service arrangements will be requested to provide subsequent system and channel assignment data. Customers who request these interfaces in conjunction with other compatible non digital interfaces without system and channel assignment data will be provided service, where facilities permit, on Telephone Company DS1 Facilities Inventory. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS9, 4DS0 or 4DS6 plus the speed options indicated below:

<u>Electrical Interface Code and Speed Option</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>
4DS9-15	1.544	DS1
4DS6-44	44.736	DS3

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(J) High Capacity

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
		4DS9-15	6DU8-B
		4DS9-15	4DU8-B
		4DS9-15J	6DU8-A
		4DS9-15J	4DU8-A
		4DS9-15K	6DU8-B
		4DS9-15K	4DU8-B
		4DS9-15K	4DU8-C
		4DS9-15K	4DU8-C
4DS6-44	4DS6-44		
4DS6-44	6DU8-A,B or C		
4DS6-44	4DU8-A,B or C		
4DS9-15	4DS9-15+		
4DS9-15J	4DS9-15J		
4DS9-15K	4DS9-15K		
4DS6-44C	4DS9-15	4DU8-A,B or C	4DU8-A,B or C
4DS6-44C	4DS9-15J	4DS6-44	4DS9-15
4DS6-44C	4DS9-15K	4DS6-44	4DS9-15J
4DS6-44C	4DU8-A,B or C	4DS6-44	4DS9-15K
4DS6-44C	4DS6-44	4DS6-44C	4DS6-44C
4DS6-44C	6DU8-A,B or C	4DS6-44	4DU9-D
4DS6-44	2FCF-45	4DS6-44	4DU9-S
4DS6-44C	2FCF-13	4DS6-44	4DU9-C
4DS6-44G	2FCF-54	4DS6-44	4DU9-B
2FCF-54	2FCF-54	4DS6-44	4DS9-15B
4DS6-44G	4DS6-44G	4DS6-44	4DS9-15S
01FCF.X	01FCF.X	4DS9-15S	4DS9-15S
		4DU9-D	4DU9-D
		4DU9-S	4DU9-D
4DS9-15B	4DS9-15B	4DS9-15B	4DU9-S
4DS9-15K	4DS9-15K	4DS9-15S	4DU9-S
4DS6.44A	4DS6.44A	4DS6.44I	4DS6.44I

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+ Available only as a cross connect of two individual channels of 1.544 Mbps facilities at a Telephone Company Hub.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation, change or rearrangement to an existing service). The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, service changes, and service rearrangements. (D)

The nonrecurring charge rate structure applicable to the installation of access service may consist of "first" and "additional" charges, except for DS3 Service Entrance Facilities and Channel Termination, where only one rate applies. For each rate element ordered, the "first" charges apply to the first rate element (e.g., port or channel termination) specified on the service order. The "additional" charges will apply to each additional same-type rate element specified on the same service order, with the same date due, and at or between (A) the same end points, or (B) between or within the same-type multiplexed high capacity systems located in the same wire center and at or between the same end points. (D)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(2) Installation of Optional Features and Functions

Separate nonrecurring charges apply for the installation of some of the optional features and functions available with Special Access Service. Except for SVS Video Bridging, the charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service. The charge for SVS Video Bridging applies only when the optional feature or function is installed at any time subsequent to the installation of service.

Some optional features for which separate nonrecurring charges apply are:

- Voice Grade Data Capability
- SVS Video Bridging
- DS3 Premises Multiplexer

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7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Changes (Cont'd)

- If the change involves changing the type of signaling on a Voice Grade service, a charge equal to the Voice Grade channel termination rate element first nonrecurring change charge will apply. The charge will apply per service termination affected.
- If the change involves the addition of B8ZS and/or ESF options to an existing high capacity DS1 service, or the addition of a B8ZS to an existing high capacity DS3 service, a charge equal to the channel termination first non-recurring change charge will apply for each channel termination converted. This rate application does not apply when either of these options are initially ordered with the service.
- A change from a two-point Special Access Service without bridging to multipoint service or from a multipoint to two-point Special Access Service without bridging will be treated as discontinuance and installation of service.

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- For all other changes, including the addition of optional features without separate nonrecurring charges, a charge equal to a channel termination rate element first nonrecurring change charge will apply. Only one such charge will apply per service, per charge.
- For changes involving the screening, or other end office features, associated with WATS Access Line Service, the following charge applies:

Rate
The rearrangement
charge specified in
6.8.1(C)(3) preceding.

USOC
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(4) Service Rearrangements (Cont'd)

When a service is rearranged, existing multiplexed services, if any, subtending the rearranged service will be treated as administrative changes unless the customer changes service type. If the service type changes, a charge equal to the nonrecurring (i.e., installation) charge for the new type of service channel termination rate element will apply.

(5) Reserved.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.4 Minimum Periods

- (A) The minimum service period for all services except part-time and occasional Video, Multichannel Video, Serial Component Video Service, Digital Data Service, LAN Extension Service, and DS1 and DS3 High Capacity is one month. (D)
- (1) The minimum service period for part-time and occasional Video (Basic, SCVS and DVTS) services is one day (i.e., a continuous 24-hour period, not limited to a calendar day).
- (2) The minimum service period for Multichannel Video service, Serial Component Video Service, and Video Switch arrangements is one year.
- (3) The minimum service period for DVTS is three months except when 45 Mbps DVTS includes the optional CODEC, then the minimum service period for the 45 Mbps DVTS is one year.
- (4) The minimum service period for Digital Data Service and DS1 High Capacity services is two months.
- (5) The minimum service period for a DS3 High Capacity service or an ISSP that is provided under a month-to-month payment plan is one year. (D)
(D)
- (6) The minimum service period for LAN Extension Service is 3 years. (T)
- (B) The minimum service periods for IntelliLight services are set forth as stated below:

<u>Service</u>	<u>Section</u>
DSR	23.1
ISDP	7.2.14(C)(2)(a)
ISAN	7.2.14(C)(3)(a)
IOTS	7.2.14(C)(4)(d)
IEF	7.2.15(E)
IBT	8.2(C)(1)
ISSP	8.3(C)(1)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.7 Facility Hubs*

A customer has the option of ordering Voice Grade facilities or analog or digital high capacity facilities (i.e., Group, Supergroup, Mastergroup, DS1 or DS3) to a facility Hub for distributing or channelizing to individual services requiring lower capacity facilities (e.g., Voice, etc.), except for Video which are always ordered to a hub although they do not require multiplexing. (D)

When analog or digital high capacity facilities are provided between a customer premises and a facility Hub, the facility will not be considered an end-to-end service until an associated channelized service is installed. The facility Hub will not be considered as a customer premises.

Different locations may be designated as Hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. When ordering the customer will specify the desired multiplexing Hub(s) selected from the Exchange Carrier Association Tariff F.C.C. No. 4. This Tariff identifies the type(s) of multiplexing functions which are available and the serving wire centers at which they are available. Locations that provide multiplexing of IntelliLight Broadband Transport (IBT) Services are described in Section 8.2(B)(3) following.

When a DS3 High Capacity Service is multiplexed at a customer designated premises, such configuration is not a Telephone Company Hub for purposes of administering the terms and conditions of this tariff.

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from digital to voice frequency channels

End to end services may be provided on channels of these facilities to a Hub. The transmission performance for the end to end service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps facility is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

* Includes connection to or between locations where IntelliLight Broadband Transport (IBT) multiplexing capability occurs as described in Section 8.2(B)(3) following.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.13 DS3 High Capacity Services(A) Payment Plans and Minimum Periods

Recurring charges for DS3 Services are rated and charged monthly for all commitment plans; Month-to-Month, 3 and 5-year Term Pricing Plans (TPPs). TPPs are provided with Base Rates as described in Section (B) following and as set forth in 7.5.9 following.

The minimum service period for DS3 is 12 months.

(D)

Additionally, the DS3 to DS1 Central Office Multiplexing and DS3 Premises Multiplexer optional features and functions are also available on a 3 or 5-year Term Pricing Plan. When ordered, a 3 or 5 year TPP for the multiplexing feature must have the same term period as the associated service, and it is always assigned an expiration date that is coterminous with the associated service.

At the end of a term plan, the customer will not be eligible to receive discounted monthly charges unless the TPP commitment is renewed. Customers with TPPs that have expired prior to December 2, 1999, will be able to retain their service at the prevailing rates for as long as the customer retains the service.

Should a customer terminate service prior to completing the minimum period or the plan term period, termination liability may be applicable. Termination liability is assessed on channel terminations, fixed and per mile mileage, and multiplexing rate elements. Liability for terminations at a primary premises is calculated based upon the rate band determined by the last count taken. A customer who downgrades a term plan to shorter duration, changes the system configuration (i.e., Optical to Electrical) or disconnects the service will be treated as having terminated the service.

In addition to TPP, a customer may select (i) a Commitment Discount Plan (CDP), subject to the terms and conditions set forth in Section 25.1 following; or (ii) a National Discount Plan (NDP), subject to the terms and conditions set forth in Section 25.3 following.

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7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

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7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

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7. Special Access Service (Cont'd)7.5 Rates and Charges (Cont'd)7.5.3 Voice Grade Service# (Cont'd)(C) Optional Features and Functions (Cont'd)(1) Bridging (Cont'd)(e) Telemetry and Alarm Bridging

	<u>USOCs</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
Active Bridging			
Channel Connections			
Split Band			
- Per channel connected	CNLRX		
Price Cap		\$17.65	None
Price Band 4		25.00	None
Price Band 5		25.00	None
Price Band 6		25.00	None

(D)

(D)

Service availability limited. Refer to # footnote on Page 7-19.

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7. Special Access Service (Cont'd)7.5 Rates and Charges (Cont'd)7.5.3 Voice Grade Service# (Cont'd)(C) Optional Features and
Functions (Cont'd)

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(3) Improved Return Loss for Effective Two-Wire Transmission or Improved Termination for Four-Wire Transmission			
Improved Return Loss			
- Per point of termination			
- Two-Wire 1RL2W			
Price Cap		\$ 7.01	None
Price Band 4		8.75	None
Price Band 5		8.75	None
Price Band 6		8.75	None
Improved Termination			
- Per point of termination			
- Four-Wire 1RL4W			
Price Cap		\$ 9.02	None
Price Band 4		11.25	None
Price Band 5		11.25	None
Price Band 6		11.25	None
(4) Reserved			
(5) Data Capability**, per point of termination XDCPT			
Price Cap		\$ 2.00	\$250.52
Price Band 4		2.50	250.00
Price Band 5		2.50	250.00
Price Band 6		2.50	250.00

(6) Reserved

(C)
(D)|
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* Rate does not apply in the states of Delaware and Pennsylvania.

** Monthly rate does not apply in the Verizon DC, MD, or VA Companies.

Service availability limited. Refer to # footnote on Page 7-19.

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7. Special Access Service (Cont'd)7.5 Rates and Charges (Cont'd)7.5.3 Voice Grade Service# (Cont'd)(C) Optional Features and
Functions (Cont'd)

	Monthly	Nonrecurring
<u>USOC</u>	<u>Rates</u>	<u>Charges</u>

(8) Reserved

(C)
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(D)

(9) Reserved

(C)
(D)

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7. Special Access Service (Cont'd)7.5 Rates and Charges (Cont'd)7.5.5 Video Service

(A) Channel Termination, Per Point of Termination

(D)

(1a) Basic Service - Premises to Premises Arrangement

Service Type	USOC	Monthly Rate	Daily Rate	Nonrecurring Charges			
				Monthly		Daily	
				First	Add'l	First	Add'l
- TV1 or 2 TMEV1							
Price Cap		285.00	100.00	610.00	380.00	610.00	380.00
Price Band 4		325.00	125.00	600.00	375.00	600.00	375.00
Price Band 5		325.00	125.00	600.00	375.00	600.00	375.00
Price Band 6		325.00	125.00	600.00	375.00	600.00	375.00

(D)

(D)

- TV-15	TMEV5						
Price Cap		285.00	100.00	610.00	380.00	610.00	380.00
Price Band 4		325.00	125.00	600.00	375.00	600.00	375.00
Price Band 5		325.00	125.00	600.00	375.00	600.00	375.00
Price Band 6		325.00	125.00	600.00	375.00	600.00	375.00

(D)

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7. Special Access Service (Cont'd)7.5 Rates and Charges (Cont'd)7.5.5 Video Service (Cont'd)

(A) Channel Termination, Per Point of Termination (Cont'd)

(D)

(1b) Basic Service - Premises to Hub Arrangement

Service Type	USOC	Monthly Rate	Daily Rate	Nonrecurring Charges			
				Monthly		Daily	
				First	Add'l	First	Add'l
- TV1 or 2 TVE1X							
Price Cap		455.00	100.00	1000.00	625.00	1000.00	625.00
Price Band 4		500.00	125.00	1000.00	625.00	1000.00	625.00
Price Band 5		500.00	125.00	1000.00	625.00	1000.00	625.00
Price Band 6		500.00	125.00	1000.00	625.00	1000.00	625.00

(D)

(D)

- TV-15	TVE5X						
Price Cap		455.00	100.00	1000.00	625.00	1000.00	625.00
Price Band 4		500.00	125.00	1000.00	625.00	1000.00	625.00
Price Band 5		500.00	125.00	1000.00	625.00	1000.00	625.00
Price Band 6		500.00	125.00	1000.00	625.00	1000.00	625.00

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7. Special Access Service (Cont'd)7.5 Rates and Charges (Cont'd)7.5.5 Video Service

(A) Channel Termination, Per Point of Termination (Cont'd)

(D)

(2) Multichannel
Service

	<u>Type</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(a) Premises to				
Premises Arrangement				
Standard TV15				
5-year TJ51P				
	Price Cap		\$255.00	None
	Price Band 4		275.00	None
	Price Band 5		275.00	None
	Price Band 6		275.00	None
10-year TJ56P				
	Price Cap		\$245.00	None
	Price Band 4		265.00	None
	Price Band 5		265.00	None
	Price Band 6		256.00	None

(D)

(D)

(b) Premises to Hub
Arrangement

Standard TV15

5-year TJ51X				
	Price Cap		\$355.00	None
	Price Band 4		375.00	None
	Price Band 5		375.00	None
	Price Band 6		375.00	None
10-year TJ56X				
	Price Cap		340.00	None
	Price Band 4		360.00	None
	Price Band 5		360.00	None
	Price Band 6		360.00	None

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7. Special Access Service (Cont'd)7.5 Rates and Charges (Cont'd)7.5.5 Video Service (Cont'd)

(C) Optional Features and Functions	<u>USOC</u>	Monthly Nonrecurring <u>Rates</u>	<u>Charges</u>
(1) Video Switching Arrangement* - 5 Year Term Plan			
(a) Basic 20X10 Video Switch*	VOGPA		
Price Band 4		575.00	200.00
Price Band 5		575.00	200.00
Price Band 6		575.00	200.00
(b) Video Switch Expansion Module*	VOHPA		
Price Band 4		55.00	200.00
Price Band 5		55.00	200.00
Price Band 6		55.00	200.00
(c) 48X48 Video Switch*	VOQF5		
Price Band 4		2730.00	200.00
Price Band 5		2730.00	200.00
Price Band 6		2730.00	200.00

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* Note: Effective April 20, 2002, the services rated in (C)(1) are no longer available to new customers. Instead, new customers should see (C)(6) for Advanced Video Switching rates. (T)

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7. Special Access Service (Cont'd)7.5 Rates and Charges (Cont'd)7.5.8 Digital Data Service# (Cont'd)

	<u>USOCs</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(C) <u>Optional Features and Functions</u>			
(1) Bridging, per port	BCNDA		
Price Cap		\$12.41	None
Price Band 4		22.80	None
Price Band 5		23.75	None
Price Band 6		24.70	None

(2) Reserved

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Service availability limited. Refer to # footnote on Page 7-58.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Rates and Charges (Cont'd)7.5.9 High Capacity Service(A) Channel Termination

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- Per point of termination

	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	
			<u>First</u>	<u>Additional</u>
(1) <u>Basic Service</u>				
a) <u>Electrical Interface</u>				
1.544 Mbps/DS1				
Rate Zone 1	TMECS	\$207.02		
Rate Zone 2	TMECS	229.25		
Rate Zone 3	TMECS	243.27		
Price Band 4	TMECS	239.17		
Price Band 5	TMECS	300.56		
Price Band 6	TMECS	310.64		
Installation/Change				
Rate Zone 1			\$355.00	\$220.00
Rate Zone 2			355.00	220.00
Rate Zone 3			355.00	220.00
Price Band 4			355.00	220.00
Price Band 5			355.00	220.00
Price Band 6			355.00	220.00
Rearrangement	NRBGJ/NRBGK			
Price Band 4			0.90	0.60
Price Band 5			0.90	0.60
Price Band 6			0.90	0.60
Coordinated Retermination				
Price Band 4	NRFRE	380.00		N/A
Price Band 5	NRFRE	380.00		N/A
Price Band 6	NRFRE	380.00		N/A

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7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

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7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

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7.5 Rates and Charges (Cont'd)

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7.5 Rates and Charges (Cont'd)

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7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

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7.5 Rates and Charges (Cont'd)

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7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

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7.5 Rates and Charges (Cont'd)

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7.5 Rates and Charges (Cont'd)

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7.5 Rates and Charges (Cont'd)

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7.5 Rates and Charges (Cont'd)

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7.5 Rates and Charges (Cont'd)

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7.5 Rates and Charges (Cont'd)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Rates and Charges (Cont'd)7.5.9 High Capacity Service (Cont'd)(C) Optional Features and
Functions

(1) Multiplexing

		USOC	Monthly Nonrecurring Rates	Charges
DS3 to DS1, per arrangement				

(a) Month-to-Month

Price Band 4	MQ3	727.73	1.00
Price Band 5	MQ3	764.12	1.00
Price Band 6	MQ3	800.51	1.00

(b) Base Rates

Price Band 4	MXNRX	710.26	1.00
Price Band 5	MXNRX	745.77	1.00
Price Band 6	MXNRX	781.29	1.00

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DS1 to Voice*
- per arrangement

Price Band 4	MQ1	241.36	None
Price Band 5	MQ1	254.77	None
Price Band 6	MQ1	268.18	None

* A channel(s) of this DS1 to the Hub can be used for WATS Access Line Services.

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7. Special Access Service (Cont'd)7.5 Rates and Charges (Cont'd)7.5.10 Lightwave Facilities

	<u>USOC</u>	<u>Nonrecurring Charges</u>
(A) Service Installation - Per point of termination		
1) 4 optic cable strands	TOTDX	
N-MSA		\$2,600.00
Price Band 4		2,600.00
Price Band 5		2,600.00
Price Band 6		2,600.00
2) 12 optic cable strands	TOTEX	
N-MSA		2,600.00
Price Band 4		2,600.00
Price Band 5		2,600.00
Price Band 6		2,600.00
	<u>USOC</u>	<u>Monthly Rates</u>
(B) Channel Mileage - Per Mile		
1) 4 optic cable strands	1T5DS	
N-MSA		1,200.00
Price Band 4		1,200.00
Price Band 5		1,200.00
Price Band 6		1,200.00
2) 12 optic cable strands	1T5ES	
N-MSA		3,600.00
Price Band 4		3,600.00
Price Band 5		3,600.00
Price Band 6		3,600.00

7.5.11 Reserved for Future Use

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7. Special Access Service (Cont'd)7.6 Individual Case Filings

Rates and charges for Special Access Service provided on an individual case basis are filed following:

Washington, D.C.

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U.S. Department of Defense - Information Technology Agency

Provision of Unprotected OC192 Optical Transport Channel service in LATA 236 as an extension of Washington Interagency Telecommunications System 2001 (WITS 2001) as set forth in Section 10.9.5 preceding. These Unprotected OC192 Optical Transport Channels are for the exclusive use of the U. S. Department of Defense and are not available in any other LATA or to any other branch of the Federal Government. The service is being provided for a term of five (5) years. Termination liability as set forth in Section 7.2.14(C)(4)(e) preceding applies in the event that service is discontinued prior to the end of the 5 year term. At the end of the 5 year term, the customer may discontinue service or continue with the service on a month-to-month basis at the rates and charges set forth below.

The monthly rate for each Unprotected OC192 Transport Channel service applies as a single recurring rate for the entire end-to-end channel, regardless of the underlying protocol being transmitted.

A nonrecurring installation charge applies for each Unprotected OC192 Transport Channel service installed. An initial installation nonrecurring charge applies for each channel installed in conjunction with initial delivery of the service to the customer. Each channels installed subsequent to the initial delivery of service is subject to a subsequent installation nonrecurring charge.

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ACCESS SERVICE

10. Federal Government Access Services (Cont'd)10.8 Security and Emergency Services

The following unique services are provided to a customer for use only by agencies or branches of the Federal Government, other authorized users and state emergency operations centers. The rates and charges for certain services shall be developed on an individual case basis and shall be consistent with the rates and charges for services offered in other sections of this tariff.

10.8.1 Type and Description(A) Voice Grade Special Access Services

(1) Reserved.

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10. Federal Government Access Services (Cont'd)

10.8 Security and Emergency Services (Cont'd)

10.8.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

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(2) Voice Grade Secure Communications Type II

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communications between an IC premises on an End User's premises and an End User's premises. Services are conditioned as follows:

G-1 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same as Voice Grade Secure Communications Type I services without additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

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10. Federal Government Access Services (Cont'd)

10.8 Security and Emergency Services (Cont'd)

10.8.1 Type and Description (Cont'd)

(B) Reserved.

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(C) Special Routing Access Service

Special Routing Access Service is a specialized service for use by carriers authorized to provide their service for an agency or branch of the Federal Government. This service provides the customer's end users the ability to originate and terminate calls to or from the customer's premises.

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10. Federal Government Access Services (Cont'd)10.8 Security and Emergency Services (Cont'd)10.8.2 Rates and ChargesDistrict of Columbia and the States of Maryland and Virginia(A) Voice Grade Special Access Service

The provision of G conditioned services contemplates station and tandem switching operations, using customer provided equipment, as well as Special Access Service. In addition to the rates and charges shown below, appropriate channel termination and mileage rates and charges for narrowband or voicegrade services, where required, apply as set forth in Section 7 preceding. (D)

<u>Voice Grade Secure Communications</u>	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
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Type II, each
G-1 Conditioning, per GTA
service termination

N-MSA	\$425.00	\$1.00
Price Band 4	425.00	1.00
Price Band 5	425.00	1.00
Price Band 6	425.00	1.00

Type III, each
G-2 Conditioning, per GTD
service termination

N-MSA	450.00	\$1.00
Price Band 4	450.00	1.00
Price Band 5	450.00	1.00
Price Band 6	450.00	1.00

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10. Federal Government Access Services (Cont'd)10.8 Security and Emergency Services (Cont'd)10.8.2 Rates and Charges (Cont'd)District of Columbia and the States of Maryland and Virginia (Cont'd)(A) Voice Grade Special Access Service (Cont'd)

<u>Voice Grade Secure Communications</u>	<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
Type IV, each G-3 Conditioning, per service termination	GTJ		
N-MSA		\$475.00	\$1.00
Price Band 4		475.00	1.00
Price Band 5		475.00	1.00
Price Band 6		475.00	1.00

(B) Reserved.

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10.8 Security and Emergency Services (Cont'd)

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10.8 Security and Emergency Services (Cont'd)

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10. Special Federal Government Access Services (Cont'd)10.9 Specialized Services and Arrangements (Cont'd)10.9.7 Federal Markets High Capacity Services (Cont'd)(C) Rates and Charges

		<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	
(1)	Channel Termination, Per point of termination				
a)	1.544 Mbps/DS1 Service	TVJYX			
	Rate Zone 1		\$ 142.00	\$220.00	
	Rate Zone 2		142.00	220.00	
	Rate Zone 3		142.00	220.00	
	Price Bands 4, 5, and 6		142.00	220.00	(N)
b)	44.736 Mbps/DS3 Service	TVJZX			
	Rate Zone 1		\$1,300.00	\$1.00	
	Rate Zone 2		1,300.00	1.00	
	Rate Zone 3		1,300.00	1.00	
	Price Bands 4, 5, and 6		1,300.00	1.00	(N)
		<u>USOC</u>	<u>Monthly Rates</u>		
			<u>Fixed</u>	<u>Per Mile</u>	
(2)	Channel Mileage				
a)	1.544 Mbps/DS1 Service	1A4YS			(D)
					(D)
	Price Bands 4, 5, and 6		\$45.00	9.00	(N)
b)	44.736 Mbps/DS3 Service	1A4ZS			(D)
					(D)
	Price Bands 4, 5, and 6		\$550.00	90.00	(N)
		<u>USOC</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	
(3)	Multiplexing				
a)	DS3 to DS1, per arrangement	OC6YX			(D)
					(D)
	Price Band 4		\$583.56	\$1.00	(N)
	Price Band 5		612.74	1.00	(N)
	Price Band 6		641.92	1.00	(N)
b)	DS1 to DS0, per arrangement	OC6ZX			(D)
					(D)
	Price Band 4		\$207.00	\$1.00	(N)
	Price Band 5		218.50	1.00	(N)
	Price Band 6		230.00	1.00	(N)

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14. Operating Territory of the Verizon Telephone Companies (Cont'd)14.7 Metropolitan Statistical Areas (Cont'd)

MSA ID	MSA Name	MSA Level	State	SWC CLLI	Price Band
14	BALTIMORE MD	1	MD	DNDLMDDN	6
14	BALTIMORE MD	1	MD	DRCRMDDC	6
14	BALTIMORE MD	1	MD	EDWDMDEG	6
14	BALTIMORE MD	1	MD	EKRGMDL	6
14	BALTIMORE MD	1	MD	ELCYMDL	5
14	BALTIMORE MD	1	MD	ESSXMDEX	6
14	BALTIMORE MD	1	MD	FPATMDFR	6
14	BALTIMORE MD	1	MD	GLBRMDGL	5
14	BALTIMORE MD	1	MD	GLVLMDDL	4
14	BALTIMORE MD	1	MD	HDGRMDHV	6
14	BALTIMORE MD	1	MD	LARLMDLR	4
14	BALTIMORE MD	1	MD	NRPNMNDP	6
14	BALTIMORE MD	1	MD	ODTNMDON	6
14	BALTIMORE MD	1	MD	OWMLMDOM	6
14	BALTIMORE MD	1	MD	PARLMDPA	6
14	BALTIMORE MD	1	MD	PIVLMDPK	5
14	BALTIMORE MD	1	MD	PKVLMDPK	6
14	BALTIMORE MD	1	MD	PRHLMDPH	6
14	BALTIMORE MD	1	MD	RNTWMDRA	6
14	BALTIMORE MD	1	MD	RSTWMDRS	6
14	BALTIMORE MD	1	MD	SVPKMDSP	6
14	BALTIMORE MD	1	MD	SYVLMDSK	6
14	BALTIMORE MD	1	MD	TWSNMDTW	4
14	BALTIMORE MD	1	MD	WDLWMDWL	6
14	BALTIMORE MD	1	MD	WMNSMDWM	6
43	NORFOLK-VIRIGINA BEACH PORTSMOTH VA/NC, a.k.a. (NORFOLK)				
43	(NORFOLK)	2	VA	CHSKVACD	6
43	(NORFOLK)	2	VA	CHSKVADC	6
43	(NORFOLK)	2	VA	CHSKVAGU	6
43	(NORFOLK)	2	VA	NRFLVABL	6
43	(NORFOLK)	2	VA	NRFLVABS	4
43	(NORFOLK)	2	VA	NRFLVAGS	5
43	(NORFOLK)	2	VA	NRFLVASP	6
43	(NORFOLK)	2	VA	NRFLVAWC	5
43	(NORFOLK)	2	VA	PTMOVAHF	6
43	(NORFOLK)	2	VA	PTMOVAHS	6
43	(NORFOLK)	2	VA	SFFLVASK	6
43	(NORFOLK)	2	VA	VRBHVACC	5
43	(NORFOLK)	2	VA	VRBHVAGN	6
43	(NORFOLK)	2	VA	VRBHVAIL	6
43	(NORFOLK)	2	VA	VRBHVAIR	5
43	(NORFOLK)	2	VA	VRBHVAPT	5
43	(NORFOLK)	2	VA	VRBHVARC	6
43	(NORFOLK)	2	VA	VRBHVAVB	5

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16. Packet Data Services (Cont'd)

16.7 Reserved for Future Use

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19. Collocated Interconnection Service #(Cont'd)19.2 Service Description (Cont'd)

The Telephone Company will provide interconnection to the following interstate services:

- 1.544 Mbps DS1 Service and multiplexing functionality
- 44.736 Mbps DS3 Service and multiplexing functionality (D)
- Exchange Access Frame Relay Service (XA-FRS) (D)
- ATM Cell Relay Service at DS3/45Mbps and OC3c/155Mbps
- IntelliLight Broadband Transport (IBT) OC3, OC3C, OC12, OC12C, OC48 and OC48c
- Special Access IntelliLight Shared Single Path (ISSP)
- LAN Extension Service (LES)
- IntelliLight Optical Transport Service (IOTS) Partial Ring Service
- Verizon Dedicated SONET Ring (DSR) Partial Ring Service
- IP Port Service
- Verizon Optical Networking
- Transparent LAN Service

Collocated Interconnection is available for Microwave Collocation where feasible on an individually negotiated basis.

The Interconnection Cross Connect can be provided at the fiber optic level, DS3 level (44.736 Mbps), and DS1 level (1.544 Mbps).

See Section 19.1 above for additional information.

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19. Collocated Interconnection Service #(Cont'd)

19.2 Service Description (Cont'd)

(D)

(D)

19.2.1 Minimum Periods

The minimum service periods for Switched and Special Access Collocated Interconnection facilities are as follows:

DS3: 12 Months

All other services: 1 month

When service is disconnected prior to the expiration of the minimum period, charges are applicable for the balance of the minimum period.

The Minimum Period Charge for monthly billed services will be determined as follows:

(1) For Switched, Special, and XA-FRS Access facilities, the charge for a month or fraction thereof is 100% of the applicable monthly rates for the service as set forth in 19.7 following. (D)

The minimum Period Charge is in addition to all applicable nonrecurring charges for the service.

See Section 19.1 above for additional information.

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25. Discount Plans (Cont'd)25.3 National Discount Plan (Cont'd)25.3.3 Qualifying Services

(B) Qualifying Services

Subject to the terms of Section 25.3.1(D) preceding, the applicable percentage (as listed below) of each Qualifying Service provided by the Telephone Company to the NDP Customer pursuant to this tariff, FCC 11, FCC 14, and FCC 16, for the ACNA(s) included in the NDP Customer's NDP, shall be included in the NDP at the time of subscription to NDP and, as applicable, at any time during the Term when the NDP Customer purchases additional quantities of such Qualifying Services.

- (1) All quantities (one hundred percent (100%)) of Special Access DS1 Service Channel Terminations; (D)
- (2) All quantities (one hundred percent (100%)) of Special Access DS3 Service Channel Terminations (including Individual System, 3 System, and Unlimited System configurations in FCC14 and FCC16, and 12 Capacity System configurations in FCC16) ; (D)
- (3) All quantities (one hundred percent (100%)) of Special Access DS1 Service Channel Mileage (see Note 1) ; (D)
- (4) All quantities (one hundred percent (100%)) of Special Access DS3 Service Channel Mileage (including Individual System, 3 System, and Unlimited System configurations in FCC14, and Individual System, 3 Capacity System, 12 Capacity System and Unlimited System configurations in FCC16) (see Note 1); (T)
- (5) All quantities (one hundred percent (100%)) of IEF STS1 Channel Terminations.

(D)

|

(D)

(T)

Note 1: The MetroLAN Optional Arrangement in FCC14 and FCC16 is not a Qualifying Service.

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25. Discount Plans (Cont'd)25.3 National Discount Plan (Cont'd)25.3.5 Application of Discount

(A) Discounted Rate Elements (Cont'd)

- (3) The following Discounted Rate Elements from FCC14 are included in NDP.

- (a) Special Access High Capacity DS1 (1.544 Mbps) Facilities - SAL rate elements of a Standard Arrangement as specified in Section 5.7.7 of FCC14, as determined in accordance with Section 19.1 of FCC14. (D)
- (b) Special Access High Capacity DS1 (1.544 Mbps) Facilities - Special Transport Facility and Termination rate elements of a Standard Arrangement as specified in Section 5.7.7(A) of FCC14, as determined in accordance with Section 19.1 of FCC14 (see Note 2). (D)
- (c) Special Access High Capacity DS3 (44.736 Mbps) Facilities - SAL rate elements of an Individual System or a 3 System configuration (with or without Telephone Company electronics) as specified in Sections 5.7.10 and 5.7.12 of FCC14, respectively, as determined in accordance with Section 19.1 of FCC14 (see Note 3).
- (d) Special Access High Capacity DS3 (44.736 Mbps) Facilities - Banded Special Transport rate elements of an Individual System, a 3 System, or an Unlimited System configuration as set forth in Section 5.7.14(C) of FCC14.
- (e) Special Access High Capacity DS3 (44.736 Mbps) Facilities - Special Transport Facilities (as set forth in Section 5.7.14(A) of FCC14) and 44.736 Mbps Terminations (as set forth in Section 5.7.14(B) of FCC14) of an Individual System, a 3 System or an Unlimited System configuration, as determined in accordance with Section 19.1 of FCC14. (D)

(D)
(D)

Note 2: All Special Transport rate elements of the MetroLAN Optional Arrangement are not Discounted Rate Elements.

Note 3: All SAL rate elements of an Unlimited System are not Discounted Rate Elements. (D)

(D)
(D)

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ACCESS SERVICE

25. Discount Plans (Cont'd)25.3 National Discount Plan (Cont'd)25.3.5 Application of Discount

(A) Discounted Rate Elements (Cont'd)

- (4) The following Discounted Rate Elements from FCC16 are included in NDP.

- (a) Special Access High Capacity DS1 Service - Circuit Termination rate elements as specified in Section 7.11.5(A) of FCC16. (D)
- (b) Special Access High Capacity DS1 Service - Fixed and Per Mile Circuit Mileage rate elements as specified in Section 7.11.5(G) of FCC16 (see Note 2). (D)
- (c) Special Access High Capacity DS3 Service - Circuit Termination rate elements of an Individual System or a 3 Capacity System configuration (with or without Telephone Company electronics) as specified Section 7.11.5(E) of FCC16 (see Note 3).
- (d) Special Access High Capacity DS3 Service - Banded Circuit Mileage rate elements of an Individual System, an Unlimited System, a 3 Capacity System or a 12 Capacity System configuration as specified in Section 7.11.5(J) of FCC16.
- (e) Special Access High Capacity DS3 Service - Fixed and Per Mile Circuit Mileage rate elements of an Individual System, an Unlimited System, a 3 Capacity System or a 12 Capacity System configuration as specified in Section 7.11.5(J) of FCC16.

(D)
(D)

Note 2: All Circuit Mileage rate elements of the MetroLAN Optional Arrangement are not Discounted Rate Elements.

Note 3: All Circuit Termination rate elements of an Unlimited System, a 12 Capacity System, or a 24 Capacity System are not Discounted Rate Elements.

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