

Effective: October 4, 2022

Original Title Page 1

## ACCESS SERVICE

Regulations, Rates and Charges  
applying to the provision of Access Services  
for connection to interstate communications facilities  
for customers within the operating territories of the  
BRIGHTSPEED OPERATING COMPANIES  
listed on Title Page 2.

All material in this Service Guide is new.

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

This Brightspeed Local Operating Companies Interstate Service Guide No. 3 replaces in its entirety the rates, terms and conditions previously contained in CenturyLink Operating Companies Interstate Service Guide No. 3.

Effective: April 1, 2025

1st Revised Title Page 2

## ACCESS SERVICE

ISSUING CARRIERS

All Regulations, Rates and Charges presented in this service guide are applicable to the following Issuing Carriers. Wire center locations for these Issuing Carriers are located in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

**Brightspeed of Alabama, LLC -North** (f/k/a CenturyTel of Northern Alabama)  
1120 South Tryon St, Ste. 700  
Charlotte, NC 28203

**Brightspeed of Missouri, LLC** (f/k/a CenturyTel of Missouri, LLC)  
Includes:  
Belle-Hermann, Southern Missouri, Southwest Missouri  
1120 South Tryon St, Ste. 700  
Charlotte, NC 28203

Exchanges included in **Brightspeed of Alabama, LLC -North:**

Alberta	Aliceville	Ashland	Bayou La Batre
Berry	Brilliant	Carrollton	Chulafinne
Coffeeville	Dauphin Island	Delta	Detroit
Double Springs	Ethelsville	Falkville	Fayette
Fowl River	Gordo	Grand Bay	Guin
Hackleburg	Haleyville	Hamilton	Heflin
Irvington	Jemison	Lecta	Lincoln
Lineville	Massey	Mentone	Morrisons Cross Roads
Notasulga	Oden Ridge	Orrville	Panola
Pell City	Phil Campbell	Pine Hill	Reform
Rockford	Sulligent	Tallassee	Thorsby
Trussville	Valley Head	Vernon	Wadley
Wedowee	Winfield	Woodland	

Exchanges included in **Brightspeed of Missouri, LLC:**

Belle	Hermann	Cabool	Mountain View	Seymour
West Plains	Willow Springs	Alton	Augusta	Bland
Blue Eye	Bourbon	Bradleyville	Branson	Branson West
Buffalo	Cape Fair	Cassville	Caulfield	Cedar Creek
Chamois	Conway	Cross Timbers	Cuba	Dardenne
Defiance	Dora	Elkland	Exeter	Foley
Fordland	Foristell	Forsyth	Gainesville	Galena
Hawk Point	Hemitage	High Hill	Highlandville	Holstein
Hurley	Jamestown	Jenkins	Jonesburg	Kimberling City
Koshkonong	Leasburg	Louisburg	Mano	Marshfield
Marthasville	Morrison	Moscow Mills	Mount Sterling	New Melle
Niangua	O'Fallon	Old Monroe	Ozark	Pittsburg
Prairie Home	Preston	Protem	Reeds Spring	Rockaway Beach
Safe	Shell Knob	Sparta	St. James	St. Peters
Summersville	Thayer	Theodosia	Thomasville	Troy
Truxton	Urbana	Vichy	Warrenton	Washburn
Wasola	Wentzville	Wheatland	Winfield	Woolridge
Wright City				

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CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

NO OTHER PARTICIPATING CARRIERS

REGISTERED SERVICE MARKS

NONE

REGISTERED TRADEMARKS

NONE

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## ACCESS SERVICE

EXPLANATION OF SYMBOLS

(C)	-	To signify changed regulation
(D)	-	To signify discontinued rate or regulation
(I)	-	To signify increase
(M)	-	To signify matter relocated without change
(N)	-	To signify new rate or regulation
(R)	-	To signify reduction
(S)	-	To signify reissued matter
(T)	-	To signify a change in text but no change in rate or regulation
(Z)	-	To signify a correction

EXPLANATION OF ABBREVIATIONS

ac	-	Alternating current
ACNA	-	Access Customer Name Abbreviation
AML	-	Actual Measured Loss
AN	-	Automatic Number Identification
AP	-	Program Audio
ASR	-	Access Service Request
AT&T	-	American Telephone and Telegraph Company
ATM	-	Asynchronous Transfer Mode (ATM) Network Service
BD	-	Business Day
BDS	-	Business Data Services
BHMC	-	Busy Hour Minutes of Capacity
BSA	-	Basic Serving Arrangement
BSE	-	Basic Service Element
CAC	-	Carrier Access Code
CAROT	-	Centralized Automatic Reporting on Trunks
CCS7	-	Common Channel Signaling System 7
CI	-	Changes Interface
CIC	-	Carrier Identification Code
CO	-	Central Office
COCTX	-	Central Office Centrex
Cont'd	-	Continued
CPE	-	Customer Provided Equipment
Ctx	-	Centrex
dB	-	decibel
dBrnC	-	Decibel Reference Noise C-Message Weighting
dBrnC0	-	Decibel Reference Noise C-Message Weighted O
dBv	-	Decibel(s) Relative to 1 Volt (Reference)
dBvl	-	Decibel(s) Relating to 1 Volt (Reference)
dc	-	direct current
DSAL	-	Dedicated Switched Access Line
DSAT	-	Dedicated Switched Access Transport
EDD	-	Envelope Delay Distortion
ELEPL	-	Equal Level Echo Path Loss
EML	-	Expected Measured Loss
EPL	-	Echo Path Loss
ERL	-	Echo Return Loss
ESS	-	Electronic Switching System
ESSX	-	Electronic Switching System Exchange
EUCT	-	End User Channel Termination
f	-	frequency

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EXPLANATION OF ABBREVIATIONS (Cont'd)

FID	-	Field Identifier
FCC	-	Federal Communications Commission
FX	-	Foreign Exchange
HC	-	High Capacity
Hz	-	Hertz
IC	-	Interexchange Carrier
ICB	-	Individual Case Basis
ICL	-	Inserted Connection Loss
Kbps	-	Kilobits per second
KHZ	-	Kilohertz
LATA	-	Local Access and Transport Area
Ma	-	Milliamperes
Mbps	-	Megabits per second
MF	-	Multifrequency
MHz	-	Megahertz
MMUC	-	Minimum Monthly Usage Charge
MRC	-	Monthly Recurring Charge
MTS	-	Message Telecommunications Service(s)
NPA	-	Numbering Plan Area
NRC	-	Nonrecurring Charge
NTS	-	Non-Traffic Sensitive
NXX	-	Three-Digit Central Office Code
OCN	-	Optical Carrier Rate
OTPL	-	Zero Transmission Level Point
PBX	-	Private Branch Exchange
PCM	-	Pulse Code Modulation
PLP	-	Private Line Ringdown
POT	-	Point of Terminations
PSTN	-	Public Switched Telephone Network
PVU	-	Percent VoIP Usage
rms	-	root-mean-square
RSM	-	Remote Switching Modules
RSS	-	Remote Switching Systems
SCP	-	Service Control Point
SRL	-	Singing Return Loss
SS7	-	Signaling System 7
SSN	-	Switched Service Network
SSP	-	Service Switching Point
STP	-	Signaling Transfer Point
SWC	-	Serving Wire Center

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EXPLANATION OF ABBREVIATIONS (Cont'd)

TDM	-	Time Division Multiplexing
TES	-	Telephone Exchange Service(s)
TLP	-	Transmission Level Point
TSP	-	Telecommunications Service Priority
TSPS	-	Traffic Service Position System
VG	-	Voice Grade
V & H	-	Vertical & Horizontal
VoIP	-	Voice over Internet Protocol
WATS	-	Wide Area Telecommunications Service(s)



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## ACCESS SERVICE

REFERENCE TO OTHER TARIFFS

Whenever reference is made in this service guide to other tariffs of the Telephone Company, the reference is to the tariffs in force as of the effective date of this service guide, and to amendments thereto and successive issues thereof.

REFERENCE TO TECHNICAL PUBLICATIONS

The following technical publications are referenced in this service guide and may be obtained from Telcordia Technologies, Inc., Customer Service, One Ericsson Drive., RRC 4A-1060, Piscataway, N.J. 08854.

Compatibility Bulletin 106, Issue 2

Issued: January 30, 1998      December, 1981      Available: March 11, 1982

Technical Reference:

PUB 41004 Data Communications Using Voiceband Private Line Channels

Issued: January 30, 1998      October, 1973      Available: October, 1973

PUB 62310 Digital Data System Channel Interface Specification

Issued: January 30, 1998      September, 1983      Available: October, 1983

PUB 62411 High Capacity Digital Service Channel Interface Specifications

Issued: January 30, 1998      September, 1983      Available: October, 1983

TR-NPL-000334 Voice Grade Switched Access Service

Issued: January 30, 1998      June, 1986      Available: July, 1986

TR-NPL-000335 Voice Grade Special Access Service

Issued: January 30, 1998      June, 1986      Available: July, 1986

TR-NPL-000337 Program Audio Special Access Service

Issued: January 30, 1998      January, 1987      Available: January, 1987

GR-253-CORE, Issue 2

Issued: January 30, 1998      April, 1996      Available: December 29, 1997

GR-1YOD-CORE, Issue 1

Issued: January 30, 1998      March, 1994      Available: December 29, 1997

GR-1374-CORE, Issue 1

Issued: January 30, 1998      March, 1994      Available: December 29, 1997

GR-1089-CORE, Issue 2

Issued: December, 1997      February, 1999      Available: April, 2000

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

TR-NPL-000338 Television Special Access and Local Channel Services

Issued: December, 1986 Available: December, 1986

TR-NPL-000341 Digital Data Special Access Service

Issued: September, 1986 Available: January, 1987

TR-NPL-000342 High Capacity Digital Special Access Service

Issued: January, 1987 Available: January, 1987

Multiple Exchange Carrier Access Billing Guidelines (MECAB)

Issued: December, 1991 Available: December, 1991

Multiple Exchange Carrier Ordering and Design Guidelines (MECOD)

Issued: November, 1989 Available: November, 1989

TR-NPL-000054 High Capacity Digital Service (1.544 Mbps) Interface  
Generic Requirements for End Users

Issued: April, 1989 Available: April 1989

TR-TSV-000905 Common Channel Signaling (CCS) Network Interface  
Specification, Issue 1

Issued: August, 1989 Available: August, 1989

TR-NWT-000499 Transport Systems Generic Requirements (TSGR),  
Issue 4

Issued: November 1991 Available: November 1991

TR-NWT-000063 Network Equipment Building System (NEBS) Generic  
Equipment Requirements, Issue 4

Issued: July 1991 Available: July 1991

TR-TSY-000191 Alarm Indication Signal Requirements and Objectives,  
Issue 1

Issued: May 1986 Available: May 1986

TR-TSY-000487 Generic Requirements for Electronic Equipment  
Cabinets, Issue 1

Issued: July 1989 Available: July 1989

TR-NPL-000320 Fundamental Generic Requirements for Metallic Digital  
Signal Cross Connect Systems DSX-1, -1C, -2, -3,  
Issue 1

Issued: April 1988 Available: April 1988

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

Network Equipment – Building System (NEBS) – SR 3580. Issue 1  
Issued: November, 1995      Available: April, 2000

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

The following technical publication is referenced in this service guide and may be obtained from the Bell Communications Technical Education Center, Room B02, 6200 Route 53, Lisle, IL 60532.

Telecommunications Transmission Engineering  
Volume 3 - Networks and Services (Chapter 6 and 7)  
Second Edition, 1980  
Issued: June, 1980                      Available: June, 1980

The following Technical Publication is referenced in this service guide and may be obtained from the National Exchange Carrier Association, Inc., Director - Tariff and Regulatory Matters, 100 So. Jefferson Road, Whippany, NJ 07981 and the Federal Communications Commission's commercial contractor.

PUB AS No. 1, Issue II  
Issued: May, 1984                      Available: May, 1984  
Addendum: March, 1987              Available: March, 1987

The following tariffs are referenced in this service guide and may be obtained from the Federal Communications Commission's commercial contractor.

National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4

The following publication is referenced in this service guide and may be obtained from the Government Printing Office, Superintendent of Documents, Document Control Branch, 941 N. Capitol Street, N.E., Washington, DC 20401.

Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook, National Communications Systems (NCS) H 3-1-2  
Dated: July 9, 1990              Available: August 1990

Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service User Manual, National Communications System (NCS) M 3-1-1  
Dated: July 9, 1990              Available: August 1990

47 C.F.R. FCC Rules and Regulations, Part 15.109  
Dated: October 1, 1995      Available: October 1995

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

The following technical publication is referenced in this service guide and may be obtained from the American National Standards Institute, 1430 Broadway, New York, New York 10018.

ANSI T1.102, Issued 1987

ANSI T1.105, Issued 1996

ANSI T1.102, Issued 1996

The following technical publication is referenced in this service guide and may be obtained from the Underwriters Laboratory, Inc., Attention: Publications, 333 Pfingsten Road, Northbrook, Illinois 60062.

UL 94, Issued 1990

The following technical material is referenced in this service guide and may be obtained from the IETF, Corporation for National Research Initiatives (CNRI), Suite 100, Preston White Drive, Reston, VA 22091 and in electronic form at Internet locations <http://www.isi.edu/iab/> and <http://www.ietf.cnri.reston.va.us/>

Internet Engineering Task Force (IETF) and Internet Architecture Board (IAB) documentation on Internet protocol standards.

Changes to this material are readily available via the Internet addresses shown above.

The following publications are referenced in this service guide and may be obtained from the American National Standards Institute (ANSI), 11 West 42nd Street, New York, New York 10036.

ANSI / IEEE X3.802.3

Issue Date March 2002

ANSI / IEEE X3.802.3u

Issue Date June 1995

ANSI / IEEE X3.802.3z

Issue Date June 1998

The following publication is referenced in this service guide and may be obtained from the Internet Engineering Task Force (IETF), c/o Association Management Solutions, LLC, 48377 Fremont Blvd., Suite 117, Fremont, California 94538.

IETF RFC 4090

Issue Date May 2005

The following publication is referenced in this service guide and may be obtained from the International Communications Union, Place des Nations, 1211 Geneva 20, Switzerland.

ITU-TY.1731

Issue Date February 2008

## ACCESS SERVICE

1. Application of Service Guide

- 1.1 This service guide contains regulations, rates and charges applicable to the provision of Universal Service Fund, Special Access Services and other miscellaneous services, hereinafter referred to collectively as service(s), provided by the Issuing Carriers of this service guide, hereinafter referred to as the Telephone Company, to customers.

Pursuant to the Commission's Rules at Section 69.4(c), 69.5(d), 69.104(l), 69.116, 69.117, 69.603(c), and 69.603(d), regulations concerning administration and billing of Universal Service Fund rates and charges for these carrier's carrier elements are contained in Section 8 of the National Exchange Carrier Association, Inc., Tariff F.C.C. No. 5. The National Exchange Carrier Association, Inc. will bill and collect all Universal Service Fund charges on behalf of the Telephone Company.

- 1.2 The provision of such services by the Telephone Company as set forth in this service guide does not constitute a joint undertaking with the customer for the furnishing of any service.

## ACCESS SERVICE

2. General Regulations2.1 Undertaking of the Telephone Company2.1.1 Scope

- (A) The Telephone Company does not undertake to transmit messages under this service guide.
- (B) The Telephone Company shall be responsible only for the installation, operation and maintenance of the services it provides.
- (C) The Telephone Company will, for maintenance purposes, test its services only to the extent necessary to detect and/or clear troubles.
- (D) Services are provided 24 hours daily, seven days per week, except as set forth in other applicable sections of this service guide.
- (E) The Telephone Company does not warrant that its facilities and services meet standards other than those set forth in this service guide.

2.1.2 Limitations

- (A) The customer may not assign or transfer the use of services provided under this service guide; however, where there is no interruption of use or relocation of the services, such assignment or transfer may be made to:
  - (1) another customer, whether an individual, partnership, association or corporation, provided the assignee or transferee assumes all outstanding indebtedness for such services, and the unexpired portion of the minimum period and the termination liability applicable to such services, if any; or

## ACCESS SERVICE

2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.2 Limitations (Cont'd)

## (A) (Cont'd)

- (2) a court-appointed receiver, trustee or other person acting pursuant to law in bankruptcy, receivership, reorganization, insolvency, liquidation or other similar proceedings, provided the assignee or transferee assumes the unexpired portion of the minimum period and the termination liability applicable to such services, if any.

In all cases of assignment or transfer, the written acknowledgment of the Telephone Company is required prior to such assignment or transfer which acknowledgment shall be made within 15 days from the receipt of notification. All rates, regulations and conditions contained in this service guide shall apply to such assignee or transferee.

- (B) The assignment or transfer of services does not relieve or discharge the assignor or transferor from remaining jointly or severally liable with the assignee or transferee for any obligation existing at the time of the assignment or transfer.
- (C) The regulations for the restoration and installation of Telecommunications Service Priority (TSP) System services shall be in accordance with Part 64, Subpart D, Appendix A, of the Federal Communications Commission's Rules and Regulations and Section 8.8 following.
- (D) Subject to compliance with the rules mentioned in (B) preceding, the services offered herein will be provided to customers on a first-come, first-served basis.



## ACCESS SERVICE

2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.3 Liability

- (A) The Telephone Company's liability, if any, for its willful misconduct is not limited by this service guide. With respect to any other claim or suit, by a customer or by any others, for damages associated with the installation, provision, preemption, termination, maintenance, repair or restoration, of service, and subject to the provisions of (B) through (H) following, the Telephone Company's liability if any, shall not exceed an amount equal to the proportionate charge for the service for the period during which the service was affected. This liability for damages shall be in addition to any amounts that may otherwise be due the customer under this service guide as a Credit Allowance for a Service Interruption.
- (B) The Telephone Company shall not be liable for any act or omission of any other carrier or customer providing a portion of a service, nor shall the Telephone Company for its own act or omission hold liable any other carrier or customer providing a portion of a service.
- (C) The Telephone Company is not liable for damages to the customer premises resulting from the furnishing of a service, including the installation and removal of equipment and associated wiring, unless the damage is caused by the Telephone Company's negligence.
- (D) The Telephone Company shall be indemnified, defended and held harmless by the customer against any claim, loss or damage arising from the customer's use of services offered under this service guide, involving:
  - (1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from the customer's own communications.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.3 Liability (Cont'd)

## (D) (Cont'd)

(2) Claims for patent infringement arising from the customer's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the customer or;

(3) All other claims arising out of any act or omission of the customer in the course of using services provided pursuant to this service guide.

(E) The Telephone Company does not guarantee or make any warranty with respect to its services when used in an explosive atmosphere. The Telephone Company shall be indemnified, defended and held harmless by the customer from any and all claims by any person relating to such customer's use of services so provided.

(F) No license under patents (other than the limited license to use) is granted by the Telephone Company or shall be implied or arise by estoppel, with respect to any service offered under this service guide.

(G) The Telephone Company's failure to provide or maintain services under this service guide shall be excused by labor difficulties, governmental orders, civil commotions, criminal actions taken against the Telephone Company, acts of God and other circumstances beyond the Telephone Company's reasonable control, subject to the Credit Allowance for a Service Interruption as set forth in 2.4.4 following.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.4 Provision of Services

The Telephone Company, to the extent that such services are or can be made available with reasonable effort, and after provision has been made for the Telephone Company's telephone exchange services, will provide to the customer upon reasonable notice services offered in other applicable sections of this service guide at rates and charges specified therein.

2.1.5 Installation and Termination of Services

The services provided under this service guide (A) will include any entrance cable or drop wiring and wire or intrabuilding cable to that point where provision is made for termination of the Telephone Company's outside distribution network facilities at a location at the customer-designated premises and (B) will be installed by the Telephone Company to such Point of Termination. The Telephone Company will work cooperatively with the customer to determine the location of the Point of Termination in accordance with the Telephone Company's standard operating procedures.

Each Access Service has only one Point of Termination per customer premises. Any additional terminations beyond such Point of Termination are the sole responsibility of the customer. Moves of the Point of Termination are handled as set forth in 7.2.1(D)(3).

2.1.6 Maintenance of Services

(A) The services provided under this service guide shall be maintained by the Telephone Company. The customer or others may not rearrange, move, disconnect, remove or attempt to repair any facilities provided by the Telephone Company, other than by connection or disconnection to any interface means used, except with the written consent of the Telephone Company.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.7 Changes, Substitutions and Rearrangements

Except as provided for equipment and systems subject to FCC Part 68 Regulations at 47 C.F.R Section 68.110(b), the Telephone Company may, where such action is reasonably required in the operation of its business;

- (A) Substitute, change or rearrange any facilities used in providing service under this service guide, including but not limited to;
  - (1) substitution of different metallic facilities,
  - (2) substitution of carrier or derived facilities for metallic facilities used to provide other than metallic facilities, and
  - (3) substitution of metallic facilities for carrier or derived facilities used to provide other than metallic facilities; and
  - (4) change in the routing of access service traffic.
- (B) Change minimum protection criteria;
- (C) Change operating or maintenance characteristics of facilities or,
- (D) Change operations or procedures of the Telephone Company.

In case of any such substitution, change or rearrangement, the transmission parameters will be within the range as set forth in 7 following. The Telephone Company shall not be responsible if any such substitution, change or rearrangement renders any customer furnished services obsolete or requires modification or alteration thereof or otherwise affects their use or performance. If such substitution, change or rearrangement materially affects the operating characteristics of the facility, the Telephone Company will provide reasonable notification to the customer in writing. Reasonable time will be allowed for any redesign and implementation required by the change in operating characteristics. The Telephone Company will work cooperatively with the customer to determine reasonable notification procedures.

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## ACCESS SERVICE

### 2. General Regulations (Cont'd)

#### 2.1 Undertaking of the Telephone Company (Cont'd)

##### 2.1.8 Refusal and Discontinuance of Service

(A) Unless the provisions of 2.2.1(B) or 2.5.1 following apply, if a customer fails to comply with the regulations set forth in: 2.1.6, Maintenance of Service; 2.2.2, Unlawful Use; 2.3.1, Damages; 2.3.4, Availability for Testing; 2.3.5, Balance; and 2.4, Payment Arrangements and Credit Allowances or, if applicable, 2.5.3, 2.5.4, or fails to make any payment to be made by it on the dates and times herein specified, the Telephone Company may, on thirty (30) days written notice, by mail or by email if the customer is billed electronically or consents to receiving electronic notification, to the person designated by that customer to receive such notices of noncompliance:

- (1) Refuse additional applications for service and/or refuse to complete any pending orders for service by the non-complying customer; and/or
- (2) Discontinue the provision of the services to the non-complying customer. In the case of such discontinuance, all applicable charges including termination charges shall become due.

If the Telephone Company does not refuse additional applications for service on the date specified in the thirty (30) days notice given pursuant to (1) above, or does not discontinue its provision of services involved on the date specified in the thirty (30) day notice given pursuant to (2) above and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to refuse additional applications for service to the non-complying customer without further notice.

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## ACCESS SERVICE

### 2. General Regulations (Cont'd)

#### 2.1 Undertaking of the Telephone Company (Cont'd)

##### 2.1.8 Refusal and Discontinuance of Service (Cont'd)

- (B) When access service is provided by more than one Telephone Company, the Companies involved in providing the joint service may individually or collectively deny service to a customer for nonpayment. Where the Telephone Company(s) affected by the nonpayment is incapable of effecting discontinuance of service without cooperation from the other joint providers of Access Service, such other Telephone Company(s) will, if technically feasible, assist in denying the joint service to the customer. Service denial for such joint service will only include calls originating or terminating within, or transiting, the operating territory of the Telephone Companies initiating the service denial for nonpayment. When more than one of the joint providers must deny service to effectuate termination for nonpayment in cases where a conflict exists in the applicable service guide provisions, the service guide regulations of the end office Telephone Company shall apply for joint service discontinuance.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.1 Undertaking of the Telephone Company (Cont'd)2.1.9 Limitation of Use of Metallic Facilities

Signals applied to a metallic facility shall conform to the limitations set forth in Technical Reference Publication AS No. 1.

2.1.10 Notification of Service-Affecting Activities

The Telephone Company will provide the customer reasonable notification of service-affecting activities that may occur in normal operation of its business. Such activities may include, but are not limited to, equipment or facilities additions, removals or rearrangements, routine preventative maintenance and major switching machine change-out. Generally, such activities are not individual customer service specific, they affect many customer services. No specific advance notification period is applicable to all service-affecting activities. The Telephone Company will work cooperatively with the customer to determine the notification requirements.

2.1.11 Coordination with Respect to Network Contingencies

The Telephone Company intends to work cooperatively with the customer to develop network contingency plans in order to maintain maximum network capability following natural or man-made disasters which affect telecommunications services.

2.1.12 Provision and Ownership of Telephone Numbers

The Telephone Company reserves the reasonable right to assign, designate or change telephone numbers, any other call number designations associated with Access Services, or the Telephone Company serving central office prefixes associated with such numbers, when necessary in the conduct of its business. Should it become necessary to make a change in such number(s), the Telephone Company will furnish to the customer 6 months notice, by Certified U.S. Mail, of the effective date and an explanation of the reason(s) for such change(s).

## ACCESS SERVICE

2. General Regulations (Cont'd)2.2 Use2.2.1 Interference or Impairment

- (A) The characteristics and methods of operation of any circuits, facilities or equipment provided by other than the Telephone Company and associated with the facilities utilized to provide services under this service guide shall not interfere with or impair service over any facilities of the Telephone Company, its affiliated companies, or its connecting and concurring carriers involved in its services, cause damage to their plant, impair the privacy of any communications carried over their facilities or create hazards to the employees of any of them or the public.
- (B) Except as provided for equipment or systems subject to the FCC Part 68 Rules in 47 C.F.R Section 68.108, if such characteristics or methods of operation are not in accordance with (A) preceding, the Telephone Company will, where practicable, notify the customer that temporary discontinuance of the use of a service may be required; however, where prior notice is not practicable, nothing contained herein shall be deemed to preclude the Telephone Company's right to temporarily discontinue forthwith the use of a service if such action is reasonable under the circumstances. In case of such temporary discontinuance, the customer will be promptly notified and afforded the opportunity to correct the condition which gave rise to the temporary discontinuance. During such period of temporary discontinuance, credit allowance for service interruptions as set forth in 2.4.4 following is not applicable.

2.2.2 Unlawful Use

The service provided under this service guide shall not be used for an unlawful purpose.



## ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer2.3.1 Damages

The customer shall reimburse the Telephone Company for damages to Telephone Company facilities utilized to provide services under this service guide caused by the negligence or willful act of the customer, or resulting from the customer's improper use of the Telephone Company facilities, or due to malfunction of any facilities or equipment provided by other than the Telephone Company. Nothing in the foregoing provision shall be interpreted to hold one customer liable for another customer's actions. The Telephone Company will, upon reimbursement for damages, cooperate with the customer in prosecuting a claim against the person causing such damage and the customer shall be subrogated to the right of recovery by the Telephone Company for the damages to the extent of such payment.

2.3.2 Ownership of Facilities and Theft

Facilities utilized by the Telephone Company to provide service under the provisions of this service guide shall remain the property of the Telephone Company. Such facilities shall be returned to the Telephone Company by the customer, whenever requested, within a reasonable period following the request in as good condition as reasonable wear will permit.

2.3.3 Equipment Space and Power

(A) Except as specified in (B), the customer shall furnish or arrange to have furnished to the Telephone Company, at no charge, equipment space and electrical power required by the Telephone Company to provide services under this service guide at the points of termination of such services. The selection of ac or dc power shall be mutually agreed to by the customer and the Telephone Company. The customer shall also make necessary arrangements in order that the Telephone Company will have access to such spaces at reasonable times for installing, testing, repairing or removing Telephone Company services.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.4 Availability for Testing

The services provided under this service guide shall be available to the Telephone Company at times mutually agreed upon in order to permit the Telephone Company to make tests and adjustments appropriate for maintaining the services in satisfactory operating condition. Such tests and adjustments shall be completed within a reasonable time. No credit will be allowed for any interruptions involved during such tests and adjustments.

2.3.5 Balance

All signals for transmission over the services provided under this service guide shall be delivered by the customer balanced to ground except for ground start and duplex (DX).

2.3.6 Design of Customer Services

Subject to the provisions of 2.1.7 preceding, the customer shall be solely responsible, at its own expense, for the overall design of its services and for any redesigning or rearrangement of its services which may be required because of changes in facilities, operations or procedures of the Telephone Company, minimum protection criteria or operating or maintenance characteristics of the facilities.

2.3.7 References to the Telephone Company

The customer may advise End Users that certain services are provided by the Telephone Company in connection with the service the customer furnishes to End Users; however, the customer shall not represent that the Telephone Company jointly participates in the customer's services.

2.3.8 Claims and Demands for Damages

(A) With respect to claims of patent infringement made by third persons, the customer shall defend, indemnify, protect and save harmless the Telephone Company from and against all claims arising out of the combining with, or use in connection with, the services provided under this service guide, any circuit, apparatus, system or method provided by the customer.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.3 Obligations of the Customer (Cont'd)2.3.8 Claims and Demands for Damages (Cont'd)

- (B) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses or damages, including punitive damages, attorney fees and court costs by third persons arising out of the construction, installation, operation, maintenance, or removal of the customer's circuits, facilities, or equipment connected to the Telephone Company's services provided under this service guide, including, without limitation, Workmen's Compensation claims, actions for infringement of copyright and/or unauthorized use of program material, libel and slander actions based on the content of communications transmitted over the customer's circuits, facilities or equipment, and proceedings to recover taxes, fines, or penalties for failure of the customer to obtain or maintain in effect any necessary certificates, permits, licenses, or other authority to acquire or operate the services provided under this service guide; provided, however, the foregoing indemnification shall not apply to suits, claims, and demands to recover damages for damage to property, death, or personal injury unless such suits, claims or demands are based on the tortuous conduct of the customer, its officers, agents or employees.
- (C) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses or damages, including punitive damages, attorney fees and court costs by the customer or third parties arising out of any act or omission of the customer in the course of using services provided under this service guide.

2.3.9 Coordination with Respect to Network Contingencies

The customer shall, in cooperation with the Telephone Company, coordinate in planning the actions to be taken to maintain maximum network capability following natural or man-made disasters which affect telecommunications services.

2.3.10 Sectionalization and Trouble Reporting

The customer will be responsible for reporting troubles sectionalized to Telephone Company facilities and/or equipment. When trouble cannot be clearly sectionalized to the Telephone Company facilities and/or equipment, the Telephone Company will test cooperatively or independently to assist in trouble sectionalization.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances2.4.1 Payment of Rates, Charges and Deposits(A) Deposits

The Telephone Company will, in order to safeguard its interests, only require a customer which has a proven history of late payments to the Telephone Company or does not have established credit, to make a deposit prior to or at any time after the provision of a service to the customer to be held by the Telephone Company as a guarantee of the payment of rates and charges. No such deposit will be required of a customer which is a successor of a company which has established credit and has no history of late payments to the Telephone Company. Such deposit may not exceed the actual or estimated rates and charges for the service for a two month period. The fact that a deposit has been made in no way relieves the customer from complying with the Telephone Company's regulations as to the prompt payment of bills. At such time as the provision of the service to the customer is terminated, the amount of the deposit will be credited to the customer's account and any credit balance which may remain will be refunded.

Such a deposit will be refunded or credited to the account when the customer has established credit or, in any event, after the customer has established a one-year prompt payment record at any time prior to the termination of the provision of the service to the customer. In case of a cash deposit, for the period the deposit is held by the Telephone Company, the customer will receive interest at the same percentage rate as that set forth in (C)(a) or in (C)(b), whichever is lower. The rate will be compounded daily for the number of days from the date the customer deposit is received by the Telephone Company to and including the date such deposit is credited to the customer's account or the date the deposit is refunded by the Telephone Company.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.1 Payment of Rates, Charges and Deposits (Cont'd)(B) Payment of Rates and Charges

The Telephone Company shall bill on a current basis all charges incurred by and credits due to the customer under this service guide attributable to services established or discontinued during the preceding billing period. In addition, the Telephone Company shall bill in advance charges for all services to be provided during the ensuing billing period except for charges associated with service usage and for the Federal Government which will be billed in arrears. The bill day (i.e., the billing date of a bill for a customer for Access Service under this service guide), the period of service each bill covers and the payment date will be as follows:

## (1) Reserved For Future Use

- (2) For Special Access Service and Miscellaneous Service charges, the Telephone Company will establish a bill day each month for each customer account. The bill will cover non-usage sensitive service charges for the ensuing billing period for which the bill is rendered, any known unbilled non-usage sensitive charges for prior periods and unbilled usage charges for the period after the last bill day through the current bill day. Any known unbilled usage charges for prior periods and known unbilled adjustments will be applied to this bill. Payment for such bills is due as set forth in (3) following. If payment is not received by the payment date, as set forth in (3) following in immediately available funds, a late payment penalty will apply as set forth in (C) following.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.1 Payment of Rates, Charges and Deposits (Cont'd)(B) Payment of Rates and Charges (Cont'd)

- (3) All bills dated as set forth in (2) preceding for service, provided to the customer by the Telephone Company are due 31 days (payment date) after the bill date or by the next bill date (i.e., same date in the following month as the bill date), whichever is the shortest interval, except as provided herein, and are payable in immediately available funds. If such payment date would cause payment to be due on a Saturday, Sunday or Holiday (i.e., New Year's Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, the first Tuesday in November and the day when Washington's Birthday, Memorial Day or Columbus Day is legally observed), payment for such bills will be due from the customer as follows:

If such payment date falls on Sunday or on a Holiday which is observed on a Monday, the payment date shall be the first non-Holiday day following such Sunday or Holiday. If such payment date falls on a Saturday or on a Holiday which is observed on Tuesday, Wednesday, Thursday or Friday, the payment date shall be the last non-Holiday day preceding such Saturday or Holiday.

(C) Late Payment Penalty

If any portion of the payment is received by the Company after the payment date as set forth in (B) preceding, or if any portion of the payment is received by the Company in funds which are not immediately available to the Company, then a late payment penalty shall be due to the Company. The late payment penalty shall be the portion of the payment not received by the payment date times a late factor. The late factor shall be the lesser of:

- (a) The highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Company, or
- (b) 0.000407 per day, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Company.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.1 Payment of Rates, Charges and Deposits (Cont'd)(D) Billing Disputes

In the event that a billing dispute occurs concerning any charges billed to the customer by the Telephone Company the following regulations will apply.

- (1) The date of the dispute shall be the date on which the customer furnishes the Telephone Company sufficient documentation to investigate the claim. Documentation must include, at the minimum, the account number under which the bill has been rendered, the date of the bill, the specific items on the bill being disputed, and, when possible, the applicable service guide section if the dispute is predicated on a service guide rate or regulation.
- (2) The date of resolution shall be the date on which the Telephone Company completes its investigation of the dispute, notifies the customer of the disposition and applies a credit for the amount of the dispute resolved in the customer's favor or late payment penalty as appropriate. The Telephone Company will work cooperatively with any customer to resolve billing disputes.
- (3) If a billing dispute is resolved in favor of the Telephone Company, any payments withheld pending resolution of the dispute shall be subject to the late payment penalty as set forth in (C) preceding.
- (4) If the customer pays the total billed amount and disputes all or part of the amount, the Telephone Company will refund any overpayment and will apply a credit for a disputed amount penalty as set forth in (a) following.
  - (a) If a customer disputes a bill within ninety (90) days of the payment date established by the Telephone Company, and the billing dispute is resolved in favor of the customer, the customer will receive a credit for a disputed amount penalty from the Telephone Company for the period starting with the date of overpayment and ending on the date of resolution. The credit for a disputed amount penalty shall be an amount equal to the disputed amount resolved in the customer's favor times a penalty factor as set forth in (C)(a) or (C)(b), whichever is less.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.1 Payment of Rates, Charges and Deposits (Cont'd)(D) Billing Disputes (Cont'd)

## (4) (Cont'd)

- (b) If a customer disputes a bill after ninety (90) days from the payment date established by the Telephone Company, and the billing dispute is resolved in favor of the customer, the customer will receive a credit for a disputed amount penalty from the Telephone Company for the period starting with the latter of the date of claim or date of overpayment and ending on the date of resolution. The credit for a disputed amount penalty shall be an amount equal to the disputed amount resolved in the customer's favor times the penalty found in (C)(a) or (C)(b), whichever is less.

(E) Billing Adjustments and Rounding

Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period set forth for services in other sections of this service guide will be prorated to the number of days or major fraction of days based on a 30 day month. When a rate as set forth in this service guide is shown to more than two decimal places, the charges will be determined using the rate shown. The resulting amount will then be rounded to the nearest penny (i.e., rounded to two decimal places).



## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.1 Payment of Rates, Charges and Deposits (Cont'd)(F) Provision of Access Service Bill Verification

- (1) The Telephone Company will, upon reasonable request and if available, furnish such detailed information as may be required for verification of any bill.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.2 Minimum Periods

The minimum period for which services are provided are for which rates and charges are applicable is one month except as otherwise specified. The minimum periods for Optical Networking term plan services are provided and which rates and charges are applicable are in Section 20. The minimum period for which service is provided and for which rates and charges are applicable for a Specialized Service or Arrangement provided on an individual case basis as set forth in 12 following, is one month unless a different minimum period is established which the individual case filing. When a service is discontinued prior to the expiration of the minimum period, charges are applicable, whether the service is used or not, as follows:

- (A) When a service with a one month minimum period is discontinued prior to the expiration of the minimum period, a one month charge will apply at the rate level in effect at the time service is discontinued.
- (B) When a service with a minimum period greater than one month is discontinued prior to the expiration of the minimum period, the applicable charge will be the lesser of:
  - (1) the Telephone Company's total nonrecoverable costs less the net salvage value for the discontinued service, or
  - (2) the total monthly charges, at the rate level in effect at the time service is discontinued, for the remainder of the minimum period.

2.4.3 Cancellation of an Order for Service

Provisions for the cancellation of an order for service are set forth in Section 5.3.2 following.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruption(A) General

A service is interrupted when it becomes unusable to the customer because of failure of a facility component used to furnish service under this service guide or in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer as set forth in 6.4(A) following. An interruption period starts when an inoperative service is reported to, or discovered by, the Telephone Company designated trouble reporting office and ends when the service is operative. The customer is responsible for sectionalizing trouble to the Telephone Company facilities and/or equipment as set forth in 2.3.10 preceding.

In case of an interruption to any service, allowance for the period of interruption, if not due to the negligence of the customer, shall be calculated as set forth in (B) and (C) following. Interruptions for which no credit allowance applies are set forth in (D) following.

The credit allowance for an interruption or for a series of interruptions shall not exceed the monthly rate, less any discounts, and minimum monthly usage charge for the service interrupted in any one monthly billing period.

For purposes of this section of the service guide, "major fraction" is defined as that time period representing one-half or more of the incremental time period used to apply the credit allowance for those specific services listed in (B) following.

Service interruptions for Specialized Service or Arrangements provided under the provisions of 12. following shall be administered in the same manner as those set forth in this section (2.4.4) unless other regulations are specified with the individual case filing.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruption (Cont'd)(A) General (Cont'd)

An out of service credit will apply for the following Optical Networking rate elements, where applicable, should the service be interrupted due to the Telephone Company's system's failure to switch to protected electronics and/or facilities within one (1) second in those locations connected to the Telephone Company surveillance system unless such interruptions are a result of conditions outside the Telephone Company's control:

- Shared Ring Connect
- Ring Connect
- LAN-wide Premium Transport
- Ring-per-mile Transport
- ON-net Banded Optical Transport provisioned via a ring topology
- Custom Connect configured via a Ring topology.

Credit will be predicated on information provided by the Telephone Company's and the customer's network surveillance systems associated with this service arrangement. The Telephone Company and the customer shall each have the opportunity to perform an annual inspection of the other party's network surveillance system to confirm its accuracy. The out-of-service credit will be calculated based on the monthly rate element charges of that portion of the inter-office network rendered inoperative. A maximum limit of one months recurring charge per rate element will be allotted for a interruption or series of interruptions within any one billing period.

The credit allowance for all other Optical Networking access services will be as shown in 2.4.4(B).

(B) Special Access Services

For Special Access Services (other than Program Audio and Ethernet Virtual Private Line) no credit shall be allowed for an interruption of less than 30 minutes. The customer shall be credited for an interruption of 30 minutes or more at the rate of 1/1440 of the monthly charges for the facility or service for each period of 30 minutes or major fraction thereof that the interruption continues.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruptions (Cont'd)(B) Special Access Services (Cont'd)

## (1) (Cont'd)

- (a) The monthly charges used to determine the credit shall be as follows:
- (b) For two point services, the monthly charge subject to credit shall be the total of all the monthly rate element charges associated with the service (i.e., two circuit terminations, circuit mileage and optional features and functions).
- (c) For multipoint services, the monthly charge subject to credit shall be only the total of all the monthly rate element charges associated with that portion of the service that is inoperative (i.e., a circuit termination per customer premises, circuit mileage and optional features and functions).

For multiplexed services, the monthly charge subject to credit shall be the total of all the monthly rate element charges associated with that portion of the service that is inoperative. When the facility which is multiplexed or the multiplexer itself is inoperative, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., the circuit termination, circuit mileage and optional features and functions, including the multiplexer on the facility to the hub, and the circuit terminations, circuit mileage and optional features and functions on the individual services from the hub). When the service which rides a circuit of the multiplexed facility is inoperative, the monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service from the Hub to a customer premises (i.e., circuit termination, circuit mileage and optional features and functions).

- (2) For Program Audio Services, no credit shall be allowed for an interruption of less than 30 seconds. The customer shall be credited for an interruption of 30 seconds or more as follows:
  - (a) For two-point services, when monthly rates are applicable, the credit shall be at the rate of 1/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruptions (Cont'd)(B) Special Access Services (Cont'd)

## (2) (Cont'd)

- (b) For two-point services, when daily rates are applicable, the credit shall be at the rate of 1/288 of the daily charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues.
  - (c) For multipoint services, when monthly rates are applicable, the credit shall be at the rate of 1/8640 of the monthly charges for each circuit termination, circuit mileage and optional features and functions that is inoperative for each period of 5 minutes or major fraction thereof that the interruption continues.
  - (d) For multipoint services, when daily rates are applicable, the credit shall be at the daily rate of 1/288 of the daily charges for each circuit termination, circuit mileage and optional features and functions that is inoperative for each period of 5 minutes or major fraction thereof that the interruption continues.
  - (e) For multipoint services, the credit for the monthly or daily charges includes the charges for the distribution amplifier only when the distribution amplifier is inoperative.
  - (f) When two or more interruptions occur during a period of 5 consecutive minutes, such multiple interruptions shall be considered as one interruption.
- (3) For certain Special Access services (Digital Data Access and High Capacity, HC1), any period during which the error performance is below that specified for the service will be considered as an interruption.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruptions (Cont'd)(B) Special Access Services (Cont'd)

- (4) For Ethernet Virtual Private Line (EVPL) service, no credit allowance shall be allowed for an interruption of less than one minute. If covered facilities fail for one minute or more, the customer will be credited 100% of the monthly recurring charges associated with the interrupted facility.
- (5) Except as noted, all Special Access Services will be eligible for a credit allowance for each occurrence of a service interruption period greater than 30 minutes. The maximum credit allowance will be \$200.00 for each out of service condition within the Telephone Company's facilities and will not exceed the monthly charge for the interrupted service. The credit allowance will not be applied more than once per calendar month. This credit allowance is applicable in all jurisdictions. The credit allowance is in addition to the credit allowance in 2.4.4(B)(1). A credit allowance will not be extended in accordance with conditions in 2.1.3 and 2.4.4(D) for repair of Telephone Company owned facilities.

The exceptions to this credit allowance are Program Audio Service - Daily Rates in 7.6.5, Individual Case Basis Services in 7.12, Ethernet Virtual Private Line Service in 7.15 and Specialized Service Arrangements in 12.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(C) Reserved For Future Use



## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruptions (Cont'd)(D) When a Credit Allowance Does Not Apply

No credit allowance will be made for:

- (1) Interruptions caused by the negligence of the customer.
- (2) Interruptions of a service due to the failure of equipment or systems provided by the customer or others.
- (3) Interruptions of service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.
- (4) Interruptions of service when the customer has released that service to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service during the time that was negotiated with the customer prior to the release of that service. Thereafter, a credit allowance as set forth in (B) preceding applies.
- (5) Interruptions of a service which continue because of the failure of the customer to authorize replacement of any element of special construction, as set forth in CenturyTel Operating Companies Tariff FCC No. 5 for Special Construction. The period for which no credit allowance is made begins on the seventh day after the customer receives the Telephone Company's written notification of the need for such replacement and ends on the day after receipt by the Telephone Company of the customer's written authorization for such replacement.
- (6) Periods when the customer elects not to release the service of testing and/or repair and continues to use it on an impaired basis.
- (7) An interruption or a group of interruptions, resulting from a common cause, for amounts less than one dollar.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.4 Credit Allowance for Service Interruptions (Cont'd)(E) Use of an Alternative Service Provided by the Telephone Company

Should the customer elect to use an alternative service provided by the Telephone Company during the period that a service is interrupted, the customer must pay the rates and charges for the alternative service used.

(F) Temporary Surrender of a Service

In certain instances, the customer may be requested by the Telephone Company to surrender a service for purposes other than maintenance, testing or activity relating to a service order. If the customer consents, a credit allowance will be granted. The credit allowance will be 1/440 of the monthly rate for each period of 30 minutes or fraction thereof that the service is surrendered. In no case will the credit allowance exceed the monthly rate for the service surrendered in any one monthly billing period.

2.4.5 Re-establishment of Service Following Fire, Flood or Other Occurrence(A) Nonrecurring Charges Do Not Apply

Charges do not apply for the re-establishment of service following a fire, flood or other occurrence attributed to an Act of God provided that:

- (1) The service is of the same type as was provided prior to the fire, flood or other occurrence.
- (2) The service is for the same customer.
- (3) The service is at the same location on the same premises.
- (4) The re-establishment of service begins within 60 days after Telephone Company service is available. (The 60 day period may be extended a reasonable period if the renovation of the original location on the premises affected is not practical within the allotted time period).

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.5 Re-establishment of Service Following Fire, Flood or Other Occurrence (Cont'd)(B) Nonrecurring Charges Apply

Nonrecurring Charges apply for establishing service at a different location on the same premises or at a different premises pending re-establishment of service at the original location.

2.4.6 Title or Ownership Rights

The payment of rates and charges by Customers for the services offered under the provisions of this service guide does not assign, confer or transfer title or ownership rights to proposals or facilities developed or utilized, respectively, by the Telephone Company in the provision of such services.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company

The Telephone Company will perform the rating and billing of Access Services under this service guide where more than one Telephone Company is involved in the provision of Access Service as set forth in or (A) or (B) following. The Single Company Billing arrangement as set forth in (A) following will be used for FGA and BSA-A Switched Access Services except where interconnection arrangements between the telephone companies involved permit the use of the Multiple Company Billing arrangement as set forth in (B) following. The Telephone Company will notify the customer of the billing arrangement when the customer orders FGA or BSA-A service. The Multiple Company Billing arrangement, as set forth in (B) following, will be used for all FGB, FGC, FGD, BSA-B, BSA-C, BSA-D, 800/877/888 Access, and 900 Access Switched Access Services and Special Access Services.

(A) Single Company Billing

The Telephone Company receiving the order from the customer as specified in 5.2(A) following will arrange to provide the service, determine the applicable charges and bill the customer for the entire service in accordance with its Access Services tariff.

(B) Multiple Company Billing

For access services subject to Multiple Company Billing, the customer will be billed in accordance with the Exchange Carrier Standards Association's Multiple Exchange Carrier Access Billing Guidelines (MECAB) and Multiple Exchange Carrier Ordering and Design Guidelines (MECOD). One of the following methods will be used:

- (1) Single Bill - The customer will receive a single bill for all access services provided by multiple Telephone Companies. The single bill will include all rate elements applicable to the access service provided under one billing account.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)(B) Multiple Company Billing (Cont'd)

- (1) Multiple Bill -The customer will receive a bill from each Telephone Company providing the access service. Multiple bills will include all charges applicable to the individual portion of the access service provided by each Telephone Company. Such bills will include the following information in accordance with the MECAB Guidelines:

- Billing Account Reference (BAR)
- Billing Account Cross Reference (BACR)
- Billing Account Number (BAN)
- End Office NPA/NXX or End Office CLLI Code
- Common EC Circuit Identifiers (Special Access)
- Billing Percentages as listed in NECA Tariff No. 4
- Percent Interstate Usage (PIU)
- Usage "from" and "through" dates

The choice of billing method shall be determined by the Telephone Companies involved. The Telephone Company will notify the customer which method applies when the customer orders access service and will provide the customer thirty days' notice in the event that the billing method is changed.

- (2) Reserved for Future Use

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)(B) Multiple Company Billing (Cont'd)

- (3) For Special Access Services the Telephone Company will determine the applicable charges as follows:
  - (a) Determine the distance in airline miles using the V&H method set forth in National Exchange Carrier Association Tariff No. 4 between the locations involved; i.e., the serving wire center associated with a customer designated premise and an end office, or a Telephone Company hub, or two Telephone Company hubs, a hub to an end office, or a hub to a Telephone Company access tandem.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.4 Payment Arrangements and Credit Allowances (Cont'd)2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)(B) Multiple Company Billing (Cont'd)

## (3) (Cont'd)

- (b) The airline distance in miles developed in (a) preceding will be multiplied by the Special Access Circuit Mileage-Per Mile rate element times the billing percentage to determine the appropriate charges. The billing percentage is that portion of circuit mileage to be billed by each company involved in providing Access Services to the customer. Billing percentages are listed in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.
- (c) Reserved For Future Use
- (d) Reserved For Future Use
- (e) All other appropriate recurring and nonrecurring charges in each Telephone Company's access service guide are applicable. The Special Access Nonrecurring Charge for circuit installation applies in full once per Circuit Termination provided by the Telephone Company.

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided by More Than One Telephone Company (Cont'd)

(B) Multiple Company Billing (Cont'd)

(3) (Cont'd)



## ACCESS SERVICE

2. General Regulations (Cont'd)2.5 Connections2.5.1 General

Equipment and Systems (i.e., terminal equipment, multiline terminating systems and communications systems) may be connected with Special Access Service furnished by the Telephone Company where such connection or interconnection is made in accordance with the provisions specified in Technical Reference Publication AS No. 1 and in 2.1.

2.5.2 Reserved For Future Use2.5.3 Reserved For Future Use2.5.4 Reserved For Future Use

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions

Certain terms used herein are defined as follows:

Access Area

The term "Access Area" denotes a specific calling area serviced by one or more Central Offices associated with the various Switched Access Services offered under this service guide. The size and configuration of the Access Area a customer obtains is dependant upon the Feature Group type and the specific characteristics of the Central Office or Telephone Company Access Tandem Network in which the connection is made.

Access Code

The term "Access Code" applies to Switched Access Service. It denotes a uniform seven digit code dialed by an end user to access an Interexchange Carrier's facilities. The five or seven digit FGD code has the form 101XXXX, and the seven digit FGB code has the form 950-XXXX.

Access Minutes

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

Access Tandem

The term "Access Tandem" denotes a Telephone Company switching system that provides a concentration and distribution function for originating and/or terminating traffic between end offices and a customer's premises.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Access Tandem Network

The term "Access Tandem Network" denotes the network of trunk groups that provide a concentration and distribution function for originating and/or terminating Switched Access traffic between a single Telephone Company access tandem and Telephone Company subtending end offices.

Add/Drop Multiplexing

The term "Add/Drop Multiplexing" denotes a multiplexing function that allows lower level signals to be added or dropped with the remaining traffic continuing through the network.

Agent

The term "Agent" is defined as that person or entity that the Telephone Company acknowledges as the possessor of authority to make decisions pertaining to instrument placement, subscription authorization, and access or usage control of Pay Telephone Service or, that person or entity duly authorized to act in that capacity by the owner of the premises.

Aggregator

The term "Aggregator" denotes any individual, partnership, association, joint-stock company, trust or corporation that, in the ordinary course of its operations, makes telephones available to the public or to transient users of its premises, for interstate telephone calls using a provider of operator services.

Answer Message

The term "Answer Message" denotes an SS7 message sent in the backward direction to indicate that the call has been answered.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Answer/Disconnect Supervision

The term "Answer/Disconnect Supervision" denotes the transmission of the switch trunk equipment supervisory signal (off-hook or on-hook) to the customer's point of termination as an indication that the called party has answered or disconnected.

Attenuation Distortion

The term "Attenuation Distortion" denotes the difference in loss at specified frequencies relative to the loss at 1004 Hz, unless otherwise specified.

Balance (100 Type) Test Line

The term "Balance (100 Type) Test Line" denotes an arrangement in an end office which provides for balance and noise testing.

Basic Service Element

The term "Basic Service Element (BSE)" denotes an unbundled service option available only with Basic Serving Arrangements.

Basic Serving Arrangement

The term "Basic Serving Arrangement (BSA)" denotes a category of Switched Access Service differentiated by technical characteristics, e.g., line side versus trunk side connection at the Telephone Company's first point of switching.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Bit

The term "Bit" denotes the smallest unit of information in the binary system of notation.

Business Data Services (BDS)

The dedicated point-to-point transmission of data at certain guaranteed speeds and service levels using high-capacity connections.

Business Day

The term "Business Day" denotes the times of day that a company is open for business. Generally, in the business community, these are 8:00 or 9:00 A.M. to 5:00 or 6:00 P.M., respectively, with an hour for lunch, Monday through Friday, resulting in a standard forty (40) hour work week. However, Business Day hours for the Telephone Company may vary based on company policy, union contract and location. To determine such hours for an individual company, or company location, contact the issuing officer at the address shown on Title Page 1.

Busy Hour Minutes of Capacity (BHMC)

The term "Busy Hour Minutes of Capacity (BHMC)" denotes the customer specified maximum amount of Switched Access Service access minutes the customer expects to be handled in an end office switch during any hour in an 8:00 A.M. to 11:00 P.M. period for the Switched Access Arrangement ordered. This customer furnished BHMC quantity is the input data the Telephone Company uses to determine the number of transmission paths or facility requirements for the Switched Access Arrangement ordered.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Call

The term "Call" denotes a customer attempt for which the complete address code (e.g., 0-, 911, or 10 digits) is provided to the serving dial tone office.

Carrier or Common Carrier

See Interexchange Carrier.

Carrier Identification Code

The term "Carrier Identification Code (CIC)" denotes the uniform access code associated with a specific Interexchange Carrier.

Carrier Identification Parameter

The term "Carrier Identification Parameter (CIP)" denotes a field in the SS7 Initial Address Message (IAM) that identifies and transmits the CIC information in a forward direction to an IC customer.

CCS

The term "CCS" denotes a hundred call seconds, which is a standard unit of traffic load that is equal to 100 seconds of usage or capacity of a group of servers (e.g., trunks).

Cellular Mobile Carrier (CMC)

The term "Cellular Mobile Carrier (CMC)" denotes a Common Carrier authorized by the Federal Communications Commission to provide cellular mobile radio telecommunications services.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Central Office

The term "Central Office" denotes a local Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks.

Central Office Prefix

The term "Central Office Prefix" denotes the first three digits (NXX) of the seven digit telephone number assigned to a customer's Telephone Exchange Service when dialed on a local basis.

Centralized Automatic Reporting on Trunks Testing

The term "Centralized Automatic Reporting on Trunks Testing" denotes a type of testing which includes the capacity for measuring operational and transmission parameters.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Channel Service Unit

The term "Channel Service Unit" denotes customer premises equipment which performs one or more of the following functions: termination of a digital facility, regeneration of digital signals, detection and/or correction of signal format error, and remote loop back.

Channelize

The term "Channelize" denotes the process of multiplexing-demultiplexing wider bandwidth or higher speed channels into narrow band-width or lower speed channels.

Circuit(s)

The term "Circuit(s)" denotes an electrical or photonic, in the case of fiber optic-based transmission systems, communications path between two or more points of termination.

Circuit Code

The term "Circuit Code" denotes the service class routing of an SS7 call that indicates the interexchange carrier trunk group to which the traffic will be routed (e.g., 0+, 0-, 500, 900, etc.)

C-Message Noise

The term "C-Message Noise" denotes the frequency weighted average noise within an idle voice channel. The frequency weighing, called C-message, is used to simulate the frequency characteristic of the 500-type telephone set and the hearing of the average subscriber.

C-Notched Noise

The term "C-Notched Noise" denotes the C-message frequency weighted noise on a voice channel with a holding tone, which is removed at the measuring end through a notch (very narrow band) filter.



## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Coin Station

The term "Coin Station" denotes a location where Telephone Company equipment is provided in a public or semipublic place where Telephone Company customers can originate telephone communications and pay the applicable charges by inserting coins into the equipment.

Concatenated

The term "Concatenated" denotes the linking together of various data structures, e.g., two bandwidths joined to form a single bandwidth.

Common Channel Signaling System 7 Network (CCS7)

The term "Common Channel Signaling System 7 Network (CCS7)" denotes a dedicated out-of-band signaling network which utilizes Signaling System 7 (SS7) protocol to provide call handling and data base access services.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Common Line

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

Communications System

The term "Communications System" denotes channels and other facilities which are capable of communications between terminal equipment provided by other than the Telephone Company.

Competitive Services

All packet-based business data services; circuit-based business data services above the DS3 bandwidth level; transport services which includes interoffice facilities, channel terminations between the serving wire center and point of presence, and all subelements established for the use of these transport facilities; DS1 & DS3 end user channel terminations, and other special access services, in any competitive SWC; DS1 & DS3 end user channel terminations, and other special access services, in a SWC for which the Company was granted pricing flexibility prior to June 2017.

Customer(s)

The term "Customer(s)" denotes any individual, partnership, association, joint-stock company, trust corporation, or governmental entity or other entity which subscribes to the services offered under this service guide.

Data Transmission (107 Type) Test Line

The term "Data Transmissions (107 Type) Test Line" denotes an arrangement which provides for a connection to a signal source which provides test signals for one-way testing of data and voice transmission parameters.

Decibel

The term "Decibel" denotes a unit used to express relative differences in power, usually between acoustic or electric signals, equal to ten (10) times the common logarithm of the ratio of two signal powers.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Decibel Reference Noise C-Message Weighting

The term "Decibel Reference Noise C-Message Weighting" denotes noise power measurements with C-Message Weighting in decibels relative to a reference 1000 Hz tone of 90 dB below 1 milliwatt.

Decibel Reference Noise C-Message Referenced to 0

The term "Decibel Reference Noise C-Message Referenced to 0" denotes noise power in "Decibel Reference Noise C-Message Weighing" referred to or measured at a zero transmission level point.

Dual Tone Multifrequency Address Signaling

The term "Dual Tone Multifrequency Address Signaling" denotes a type of signaling that is an optional feature of Switched Access Feature Group A and BSA-A. It may be utilized when Feature Group A or BSA-A is being used in the terminating direction (from the point of termination with the customer to the local exchange and office). An office arranged for Dual Tone Multifrequency Signaling would expect to receive address signals from the customer in the form of Dual Tone Multifrequency signals.

Echo Control

The term "Echo Control" denotes the control of reflected signals in a telephone transmission path.

Echo Path Loss

The term "Echo Path Loss" denotes the measure of reflected signal at a 4-wire point of interface without regard to the send and receive Transmission Level Point.

Echo Return Loss

The term "Echo Return Loss" denotes a frequency weighted measure of return loss over the middle of the voiceband (approximately 500 to 2500 Hz), where talker echo is most annoying.

Effective 2-Wire

The term "Effective 2-Wire" denotes a condition which permits the simultaneous transmission in both directions over a channel, but it is not possible to insure independent information transmission in both directions. Effective 2-wire channels may be terminated with 2-wire or 4-wire interfaces.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Effective 4-Wire

The term "Effective 4-Wire" denotes a condition which permits the simultaneous independent transmission of information in both directions over a channel. The method of implementing effective 4-wire transmission is at the discretion of the Telephone Company (physical, time domain, frequency-domain separation or echo cancellation techniques). Effective 4-wire channels may be terminated with a 2-wire interface at the customer's premises. However, when terminated 2-wire, simultaneous independent transmission cannot be supported because the two wire interface combines the transmission paths into a single path.

End Office Switch

The term "End Office Switch" denotes a local Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks. Included may be Remote Switching Modules and Remote Switching Systems served by a host office in a different wire center.

End User

The term "End User" denotes any customer of interstate or foreign telecommunications service that is not a carrier, except that a carrier shall be deemed to be an "end user" to the extent that such carrier uses a telecommunications service for administrative purposes, without making such service available to others, directly or indirectly.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Entry Switch

See First Point of Switching.

Envelope Delay Distortion

The term "Envelope Delay Distortion" denotes a measure of the linearity of the phase versus frequency of a channel.

Equal Level Echo Path Loss

The term "Equal Level Echo Path Loss" (ELEPL) denotes the measure of Echo Path Loss (EPL) at a 4-wire interface which is corrected by the difference between the send and receive Transmission Level Point (TLP). [ELEPL = TLP (send) + TLP (receive)]

Exchange

The term "Exchange" denotes a unit generally smaller than a local access and transport area, established by the Telephone Company for the administration of communications service in a specified area which usually embraces a city, town or village and its environs. It consists of one or more central offices together with the associated facilities used in furnishing communications service within the area. One or more designated exchanges comprise a given local access and transport area.

Existing Suitable Space

The term "Existing Suitable Space" denotes a space in which ac/dc power, heat and air conditioning, battery and generator back-up power, and other requirements necessary for provision of wire center or access tandem equipment currently exists.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Exit Message

The term "Exit Message" denotes an SS7 message sent to an end office by the Telephone Company tandem switch to mark the Connect Time when the Telephone Company's tandem switch sends an Initial Address Message to a customer.

Expected Measured Loss

The term "Expected Measured Loss" denotes a calculated loss which specifies the end-to-end 1004-Hz loss on a terminated test connection between two readily accessible manual or remote test points. It is the sum of the inserted connection loss and test access loss including any test pads.

Extended Area Service

The term "Extended Area Service" denotes a telephone exchange service in which a customer in one exchange can call a local number in another exchange that is part of the extended area without paying a toll charge.

Facility

The term "Facility" denotes generically the various transmission media used for the transmission of telecommunications service. This included, but is not limited to, cable (copper pair, coaxial and fiber optic) and microwave radio equipment.

Field Identifier

The term "Field Identifier" denotes two to four characters that are used on service orders to convey specific instructions. Field Identifiers may or may not have associated data. Selected Field Identifiers are used in Telephone Company billing systems to generate nonrecurring charges.

First Come - First Served

The term "First Come - First Served" denotes a procedure followed by the Telephone Company to process fully completed Access Orders according to the sequence in which they are received.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)First Point of Switching

The term "First Point of Switching" denotes the first Telephone Company location at which switching occurs on the terminating path of a call proceeding from the customer premises to the terminating end office and, at the same time, the last Telephone Company location at which switching occurs on the originating path of a call proceeding from the originating end office to the customer premises.

Flexible Automatic Number Identification (FLEX ANI)

The term "Flexible Automatic Number Identification" denotes an optional feature or Basic Service Element that provides additional values for the information indicator digits available with the ANI feature on originating calls. These additional digits identify the type of line that is originating the call for billing, screening and routing purposes.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Frame

The term "Frame" denotes a group of data bits, in specific format, with a flag at either end to indicate the beginning and end of the frame. The defined format enables network equipment to recognize the meaning and purpose of specific bits.

Frequency Shift

The term "Frequency Shift" denotes the change in the frequency of a tone as it is transmitted over a channel.



## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Grandfathered

The term "Grandfathered" denotes Terminal Equipment, Multiline Terminating Systems and Protective Circuitry directly connected to the facilities utilized to provide services under the provisions of this service guide, and which are considered grandfathered under Part 68 of the F.C.C.'s Rules and Regulations.

Host Office

The term "Host Office" denotes an electronic switching system which provides call processing capabilities for one or more Remote Switching Modules or Remote Switching Systems.

Immediately Available Funds

The term "Immediately Available Funds" denotes a corporate or personal check drawn on a bank account and funds which are available for use by the receiving party on the same day on which they are received and include U.S. Federal Reserve bank wire transfers, U.S. Federal Reserve notes (paper cash), U.S. coins, U.S. Postal Money Orders and New York Certificates of Deposit.

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.

Individual Case Basis

The term "Individual Case Basis" denotes a condition in which the regulations, if applicable, rates and charges for an offering under the provisions of this service guide are developed based on the circumstances in each case.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Initial Address Message (IAM)

The term "Initial Address Message (IAM)" denotes an SS7 message sent in the forward direction to initiate trunk set up with the busying of an outgoing trunk which carries the information about that trunk along with other information relating to the routing and handling of the call to the next switch.

Inserted Connection Loss

The term "Inserted Connection Loss" denotes the 1004 H2 power difference (in dB) between the maximum power available at the originating end and the actual power reaching the terminating end through the inserted connection.

Interconnection

The term "Interconnection" denotes the termination of a customer's basic transmission facilities, including optical terminating equipment and multiplexers at or near Telephone Company wire center or Telephone Company access tandem. Interconnection may be provided as either physical or virtual.

Interconnection Point

The term "Interconnection Point" denotes physical EIS arrangements as the point where the customer-owned cable facilities connect to the Telephone Company termination equipment. The interconnection point for virtual EIS arrangements is the demarcation between ownership of the cable facilities.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Interexchange Carrier (IC) or Interexchange Common Carrier

The terms "Interexchange Carrier" (IC) or "Interexchange Common Carrier" denotes any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged for hire in interstate or foreign communications by wire or radio, between two or more exchanges.

Intermodulation Distortion

The term "Intermodulation Distortion" denotes a measure of the nonlinearity of a channel. It is measured using four tones, and evaluating the ratios (in dB) of the transmitted composite four-tone signal power to the second-order products of the tones (R2), and the third-order products of the tones (R3).

Interstate Communications

The term "Interstate Communications" denotes both interstate and foreign communications.

Intrastate Communications

The term "Intrastate Communications" denotes any communications within a state subject to oversight by a state regulatory commission as provided by the laws of the state involved.

Line Side Connection

The term "Line Side Connection" denotes a connection of a transmission path to the line side of a local exchange switching system.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Local Access and Transport Area

The term "Local Access and Transport Area" (LATA) denotes a geographic area established by the Telephone Company for the provision and administration of its communications service. It encompasses one or more Telephone Company designated exchanges which are configured in relative proximity to one another and may be reconfigured by the Telephone Company in the normal operation of its business. As used herein, the term LATA refers only to these Telephone Company designated exchanges and does not necessarily have any predetermined association with the term LATA used by other exchange carriers.

Logical Channel

The term "Logical Channel" denotes a communication channel which allows two-way simultaneous transmission of data packets through the network. No circuit capability is preassigned to a logical channel. Capacity is made available as the data is transmitted. Each virtual connection utilizes one logical channel.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Loop Around Test Line

The term "Loop Around Test Line" denotes an arrangement utilizing a Telephone Company central office to provide a means to make certain two-way transmission tests on a manual basis. This arrangement has two central office terminations, each reached by means of separate telephone numbers and does not require any specific customer premises equipment. Equipment subject to this test arrangement is at the discretion of the customer.

Loss Deviation

The term "Loss Deviation" denotes the variation of the actual loss from the designed value.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Message

The term "Message" denotes a "call" as defined preceding.

Milliwatt (102 Type) Test Line

The term "Milliwatt (102 Type) Test Line" denotes an arrangement in an end office which provides a 1004 Hz tone at 0 dBm0 for one-way transmission measurements towards the customer's premises from the Telephone Company end office.

Mobile Telephone Switching Office (MTSO)

The term "Mobile Telephone Switching Office (MTSO)" denotes a Cellular Mobile Carrier (CMC) Switching System that is used to originate or terminate calls on the CMC network, or originate or terminate calls between the CMC and the public switched telephone network.

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.

Node

The term "Node" denotes a SONET ring service element that designates either a customer designated location or a Telephone Company wire center location on the SONET ring. It also denotes the location/address of where a channelized service originates or terminates on a ring.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Non-Competitive Serving Wire Center

A Company Serving Wire Center that has not met the Competitive Market Test as established by the FCC's BDS Order (17-43) on April 28, 2017 at §69.803.

Nonsynchronous Test Line

The term "Nonsynchronous Test Line" denotes an arrangement in step-by-step end offices which provides operational tests which are not as complete as those provided by the synchronous test lines, but can be made more rapidly.

North American Numbering Plan

The term "North American Numbering Plan" denotes a three digit area (Numbering Plan Area) code and a seven-digit telephone number made up of a three-digit Central office code plus a four-digit station number.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Off-hook

The term "off-hook" denotes the active condition of Switched Access or a Telephone Exchange Service Line.

On-hook

The term "On-hook" denotes the idle condition of Switched Access or a Telephone Exchange Service line.

Open Circuit Test Line

The term "Open Circuit Test Line" denotes an arrangement in an end office which provides an ac circuit termination of a trunk or line by means of an inductor of several Henries.

Optical Carrier Rate (OC-N)

The term "OC-N" denotes an Optical Networking transmission signal, speed, line rate, commonly referred to as follows:

<u>OC-N Rate</u>	<u>Bandwidth Capacity</u>
OC-1	51.84 Mbps
OC-3	155.52 Mbps
OC-12	622.08 Mbps
OC-24	1.25 Gbps
OC-48	2.488 Gbps



## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Originating Direction

The term "Originating Direction" denotes the use of access service for the origination of calls from an End User Premises to an IC Premises.

OZZ Code

The term "OZZ Code" denotes the service class routing code of a multifrequency (MF) call that indicates the interexchange carrier trunk group to which the traffic will be routed (e.g., 0+, 0-, 500, 900, etc.).

Payload

The term "Payload" denotes the portion of the SONET signal available to carry service signals such as DS0, DS1, and DS3.

Pay Telephone

The term "Pay Telephone" denotes Telephone Company provided instruments and related facilities that are available to the general public for public convenience and necessity, including public and semipublic telephones, and coinless telephones.

Phase Jitter

The term "Phase Jitter" denotes the unwanted phase variations of a signal.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Physical EIS

The term "Physical EIS" denotes an offering that enables customers to place equipment needed to terminate basic transmission facilities, including optical terminating equipment and multiplexers, within or upon the Telephone Company's wire center or Telephone Company access tandem buildings, use such equipment to connect customer's fiber optic systems or microwave radio transmission facilities (where reasonably feasible) with the local exchange carrier's equipment and facilities used to provide interstate switched and special access services.

Plant Test Date

The term "Plant Test Date" denotes the date on which installation is completed and the Telephone Company to customer testing can begin.

Point of Termination

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

Premises

The term "Premises" denotes a building or buildings on continuous property (except Railroad Right-of-Way, etc.) not separated by a public highway.

Release Message

The term "Release Message" denotes an SS7 Message sent in either direction to indicate that a specific circuit is being released.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Remote Switching Modules and/or Remote Switching Systems

The term "Remote Switching Modules and/or Remote Switching Systems" denotes remotely controlled electronic end office switches which obtain their call processing capability from an ESS-type Host Office. The Remote Switching Modules and/or Remote Switching Systems cannot accommodate direct trunks to an IC.

Return Loss

The term "Return Loss" denotes a measure of the similarity between the two impedances at the junction of two transmission paths. The higher the return loss, the higher the similarity.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Registered Equipment

The term "Registered Equipment" denotes the customer's premises equipment which complies with and has been approved within the Registration Provisions of Part 68 of the FCC's Rules and Regulations.

Service Control Point

The term "Service Control Point (SCP)" denotes an SS7 network control interface element between the Telephone Company's SS7 network and one or more data bases.

Service Switching Point (SSP)

The term "Service Switching Point" (SSP) denotes a signal point equipped with the ability to halt call process, formulate and send a SS7 query to a remote location and route the call based on information contained in the response.

Serving Wire Center

That Telephone Company designated wire center serving the customer's designated premises and used for mileage measurement to determine local transport or circuit mileage charges for Access Service.

Seven Digit Manual Test Line

The term "Seven Digit Manual Test Line" denotes an arrangement which allows the Customer to select balance, milliwatt and synchronous test lines by manually dialing a seven digit number over the associated access connection.

Shortage of Facilities or Equipment

The term "Shortage of Facilities or Equipment" denotes a condition which occurs when the Telephone Company does not have appropriate cable, switching capacity, bridging or, multiplexing equipment, etc., necessary to provide the Access service requested by the customer.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Short Circuit Test Line

The term "Short Circuit Test Line" denotes an arrangement in an end office which provides for an ac short circuit termination of a trunk or line by means of a capacitor of at least four microfarads.

Signal-to-C-Notched Noise Ratio

The Term "Signal-to-C-Notched Noise Ratio" denotes the ratio in dB of a test signal to the corresponding C-Notched Noise.

Signaling Point

The term "Signaling Point (SP)" denotes an SS7 network interface element capable of originating and/or terminating SS7 messages.

Signaling System 7 (SS7)

The term "Signaling System 7 (SS7)" denotes the layered protocol used for standardized common channel signaling in the United States.

Signal Transfer Point (STP)

The term "Signal Transfer Point (STP)" denotes a packet switch which provides access to the Telephone Company's SS7 network and performs SS7 message signal routing and screening. The technical interface specifications, transmission specifications, and diversity requirements for interconnecting to the Telephone Company's SS7 network at the STP are as described in Bellcore Technical Reference Publication TR-TSV-000905.

Signal Transfer Point (STP) Port

The term "Signal Transfer Point (STP) Port" denotes the physical point of termination and interconnection to the STP.

Singing Return Loss

The term "Singing Return Loss" denotes the frequency weighted measure of return loss at the edges of the voiceband (200 to 500 Hz and 2500 to 3200 Hz), where singing (instability) problems are most likely to occur.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)SONET

The term "SONET" (Synchronous Optical Network) denotes a family of fiber optic transmission bit rates starting at 51.84 Mbps, designed to provide the flexibility needed to transport many digital signals with different capacities.

Statistical Multiplexing

The term "Statistical Multiplexing" denotes a technique in which timeslots are dynamically allocated on the basis of need rather than being predetermined. The data is typically transmitted on a first come, first served basis.

Subtending End Office of the Telephone Company Access Tandem

The term "Subtending End Office of the Telephone Company Access Tandem" denotes an end office that has final trunk group routing through the Telephone Company access tandem.

Synchronous Test Line

The term "Synchronous Test Line" denotes an arrangement in an end office which performs marginal operational tests of supervisory and ring-tripping functions equivalent information needed to perform tandem switching functions.

Synchronous Transport Signal (STS)

STS-1 has the capacity to transport up to twenty-eight (28) DS1s or one (1) DS3.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Terminating Direction

The term "Terminating Direction" denotes the use of Access Service for the completion of calls from an IC premises to an End User Premises.

Toll VoIP-PSTN Traffic

The term "Toll VoIP-PSTN Traffic" denotes a customer's interexchange voice traffic exchanged with the Telephone Company in Time Division Multiplexing format over PSTN facilities, which originates and/or terminates in Internet Protocol (IP) format. "Toll VoIP-PSTN Traffic" originates and/or terminates in IP format when it originates from and/or terminates to an end user customer of a service that requires IP-compatible customer premises equipment.

Transmission Measuring (105 Type) Test Line/Responder

The term "Transmission Measuring (105 Type) Test Line/Responder" denotes an arrangement in an end office which provides far-end access to a responder and permits two-way loss and noise measurements to be made on trunks from a near end office.

Transmission Path

The term "Transmission Path" denotes an electrical path capable of transmitting signals within the range of the service offering, e.g., a voice grade transmission path is capable of transmitting voice frequencies within the approximate range of 300 to 3000 Hz. A transmission path is comprised of physical or derived facilities consisting of any form or configuration of plant typically used in the telecommunications industry.

Trunk

The term "Trunk" denotes a communications path connecting two switching systems in a network, used in the establishment of an end-to-end connection.

Trunk Group

The term "Trunk Group" denotes a set of trunks which are traffic engineered as a unit for the establishment of connections between switching systems in which all of the communications paths are interchangeable.

## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)Trunk Side Connection

The term "Trunk Side Connection" denotes the connection of a transmission path to the trunk side of a local exchange switching system.

Two-Wire to Four-Wire Conversion

The term "Two-Wire to Four-Wire Conversion" denotes an arrangement which converts a four-wire transmission path to a two-wire transmission path to allow a four-wire facility to terminate to a two-wire entity (e.g., a central office switch).

Uniform Service Order Code

The term "Uniform Service Order Code" denotes a three or five character alphabetic, numeric, or an alphanumeric code that identifies a specific item of service or equipment. Uniform Service Order Codes are used in the Telephone Company billing system to generate recurring rates and nonrecurring charges.

V&H Coordinates

The term "V and H Coordinates Method" denotes a method of computing airline miles between two points by utilizing an established formula which is based on the vertical and horizontal coordinates of the two points.

Virtual EIS

The term "Virtual EIS" denotes an offering that enables customers to designate or specify equipment needed to terminate basic transmission facilities, including optical terminating equipment and multiplexers, to be located within or upon the Telephone Company's wire center or Telephone Company's access tandem buildings, and dedicated to such customer's use.



## ACCESS SERVICE

2. General Regulations (Cont'd)2.6 Definitions (Cont'd)WATS Serving Office

"WATS Serving Office" denotes a Telephone Company switching office capable of performing the optional screening functions used in Combined Access Service Arrangements.

Wire Center

The term "Wire Center" denotes (1) a building in which one or more central offices, including end office switches, used for the provision of Telephone Exchange Services, are located, or (2) in the case of a centralized Telephone Company equal access tandem arrangement, a building in which Telephone Company access facilities are located for purposes of interconnection to customer premises.

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ACCESS SERVICE

3. Reserved For Future Use

ACCESS SERVICE

4. Federal Universal Service Charge

4.7 Rates and Charges

4.7.1 Reserved For Future Use

4.7.2 Federal Universal Service Charge \*

- \* The FCC Contribution factor is subject to change quarterly. The current factor can be found at <http://www.fcc.gov/encyclopedia/contribution-factor-quarterly-filings-universal-service-fund-usf-management-support>

## ACCESS SERVICE

5. Ordering Special Access Service

This section sets forth the regulations and order related charges for Access Orders for Special Access Services. These charges are in addition to other applicable charges as set forth in other sections of this service guide.

5.1 Access Service Request Requirements

An ASR is used by the Telephone Company to receive orders for the following types of services requested by the customer:

- Special Access as in Section 7, and
- Other Services as in other sections of the service guide.

When placing an order for Access Services, the customer must complete a Telephone Company Access Service Request and shall provide the information as required in 5.1.1 and 5.1.3 following.

5.1.1 General

A customer may order any number of services of the same type and between the same premises on a single Access Service Request. All details for services for a particular order must be identical except for those for multipoint service.

A customer may order access service on behalf of the customer's end user. The customer must provide the Telephone Company all the necessary information as set forth in this section.

The customer shall provide all information necessary for the Telephone Company to provide and bill for the requested service. In addition to the order information required in 5.1.3 following, the customer must also provide:

- Customer name and premises address(es)
- Billing name and address (when different from customer name and address).
- Customer contact name(s) and telephone number(s) for the following provisioning activities: order negotiation, order confirmation, interactive design, installation and billing.

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ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)

5.1 Access Service Request Requirements (Cont'd)

5.1.2 Reserved For Future Use

## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.1 Access Service Request Requirements (Cont'd)5.1.3 Special Access Services(A) General

When placing an order for Special Access Services, the customer must provide the requirements as follows:

For all Special Access Services, the customer must specify the customer designated premises or Hubs involved, the type of service, (e.g., Voice Grade, High Capacity, etc.) the channel interface, technical specification package and options desired. The customer must also indicate the jurisdiction of the circuit as set forth in 7.1.9 following. For DS3 High Capacity Services, the customer must indicate the minimum service period and level of capacity. For multipoint services, the channel interface at each premises may, at the request of the customer, be different but all such interfaces shall be compatible.

Where the Special Access Service is exempt from the Special Access Surcharge, the customer shall furnish with the Access Service Request the certification as set forth in 7.2.1(E) following. Exemption certifications may be provided in writing or by use of an Access Service Request.

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ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)

5.1 Access Service Request Requirements (Cont'd)

5.1.4 Reserved For Future Use

5.1.5 Reserved For Future Use

## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.1 Access Service Request Requirements (Cont'd)5.1.6 Provision of Other Services

- (A) Testing Service, Additional Labor, Restoration Priority and Special Facilities Routing shall be ordered with an Access Service Request or as set forth in (B) following. The rates and charges for these services, as set forth in other sections of this service guide, will apply in addition to the ordering charges set forth in this section and the rates and charges for the Access Service with which they are associated.
- (B) Where possible, the Telephone Company will allow the services listed preceding to be subsequently added to an Access Service Request at any time, up to and including the service date for the Access Service. When added subsequently, charges for a design change as set forth in 5.3.1(C) following will apply when an engineering review is required.
- (C) Additional Engineering is not an ordering option, but will be applied to an Access Service Request when the Telephone Company determines that Additional Engineering is necessary to accommodate a customer request. Additional Engineering conditions and charges are as set forth in 8.1 following and are in addition to the regulations, rates and charges specified in this section.
- (D) For Packet Switching Network Service, the packet carrier must provide a Percent of Interstate Usage (PIU) in the Main Remarks section of the ASR when service is initially ordered. This PIU will be used as the basis for prorating the packet usage charges to the interstate and intrastate jurisdictions. The packet switching carrier may submit an updated PIU report in writing at any time following one full month's billing. The updated report will become effective on the first day of the next monthly billing period which begins at least 15 business days after the date the revised report is received by the Telephone Company.

5.1.7 Access Order Service Date Intervals

Access Service is provided with Service Date Intervals. The Service Date Interval is that period of time which the Telephone Company requires to properly provision the service and begins when the customer submits a completed Access Service Request for service, as set forth in 5.1 preceding.



## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.1 Access Service Request Requirements (Cont'd)5.1.7 Access Order Service Date Intervals (Cont'd)

The Telephone Company shall publish and make available to all customers, upon reasonable request, a schedule of Service Date Intervals applicable for Special Access Services. The schedule shall specify the services and the quantities of services that can be provided in the Service Date Intervals. Service Date Interval schedules are provided during regular business days at Telephone Company offices at which the customer places an order for Access Service.

Access Services provided in a Service Date Interval will be installed during Telephone Company business days. If a customer requests that installation be done outside of scheduled work hours, and the Telephone Company agrees to this request, the customer will be subject to applicable Additional Labor Charges as set forth in 8.2 following.

5.1.8 Selection of Facilities For Access Order

When there are digital high capacity facilities to a Hub on order or in service for the customer's use, the customer may request a specific channel or transmission path be used to provide the Special Access Service requested in an Access Service Request. The Telephone Company will make a reasonable effort to accommodate the customer request.

For all other Access Service Requests, the option to request a specific transmission path or channel is not provided except as provided for under Special Facilities Routing as set forth in 11 following.

5.1.9 Shared Use Facilities

Shared Use (i.e., Switched and Special Access Services provided over the same analog or digital high capacity facilities) is allowed. Shared use facilities to a Hub will be ordered and provided as either Switched or Special Access Service. While shared use is allowed, individual services utilizing these facilities must be ordered either as Switched Access Service or Special Access Service. When placing the order for the individual service(s), the customer must specify a channel assignment for each service ordered.

5.1.10 Reserved For Future Use

## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.2 Access Services Provided by More than One Telephone Company

The Telephone Company will provide Access Services under this service guide where more than one Telephone Company is involved in the provision of Access Service as set forth in (B). The Multiple Company Billing arrangement, as set forth in (B) will be used for Special Access Services.

(A) Reserved For Future Use

## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.2 Access Services Provided by More than One Telephone Company (Cont'd)(B) Multiple Company Billing

Access services subject to Multiple Company Billing will be provided by the Telephone Companies involved in accordance with the Exchange Carrier Standards Association's Multiple Exchange Carrier Access Billing Guidelines (MECAB) and Multiple Exchange Carrier Ordering and Design Guidelines (MECOD).

For all Special Access Services, the customer shall submit an ASR to each Telephone Company involved in providing the service.

Each Telephone Company will provide the appropriate access service elements within its operating territory to a physical point of interconnection with the other involved Telephone Company(ies). The physical point of interconnection is the location where one Telephone Company's facilities connect with another Telephone Company's facilities.

Each Telephone Company that receives an order will bill the customer for the appropriate access service elements provided by each respective Telephone Company as set forth in 2.4.7 (B) preceding.

## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.3 Access Order Charges5.3.1 Access Service Request Modifications

The customer may request a modification of its Access Service Request prior to the service date. The Telephone Company will make every effort to accommodate a requested modification when it is able to do so with the normal work force assigned to complete such an order within normal business hours. If the modification cannot be made with the normal work force during normal business hours, the Telephone Company will notify the customer. If the customer still desires the Access Service Request modification, the Telephone Company will schedule a new service date. All charges for Access Service Request modifications will apply on a per occurrence basis.

Any increase in the number of Special Access Service circuits will be treated as a new Access Service Request (for the increased amount only).

If order modifications are necessary to satisfy the transmission performance for a Special Access Service ordered by a customer, these changes will be made without order modification charges being incurred by the customer.

(A) Service Date Change Charge

Access Order service dates may be changed, but the new service date may not exceed the original service date by more than 60 calendar days. If the customer is unable to accept the service on the established service date and/or the customer requested service date is more than 60 calendar days after the original service date, the customer will have the option of (a) or (b) following:

- (a) The original order will be canceled by the Telephone Company, and reissued with appropriate cancellation charges applied, or
- (b) The billing will commence for the services ordered on the original ASR.

## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.3 Access Order Charges (Cont'd)5.3.1 Access Service Request Modifications (Cont'd)(A) Service Date Change Charge (Cont'd)

If the Telephone company determines it can accommodate the customer's request without delaying service dates for orders of other customers, a new service date may be established that is prior to the original standard or negotiated interval service date.

If the service date is changed to an earlier date, the customer will be notified by the Telephone Company that Expedited Order Charges as set forth in (D) following apply. Such charges will apply in addition to the Service Date Change Charge.

A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed after the Plant Test Date of the ASR. The applicable charge is:

CHARGE

Service Date Change Charge, per order

\$26.21

(B) Access Ordering Charge

This charge, applied on a per ASR basis, is associated with the work performed by the Telephone Company in connection with the receiving, recording and processing of service requests. The Access Ordering Charge applies to all requests to establish Entrance Facilities, Direct-Trunked Transport Facilities, and Tandem-Switched Transport Facilities. Where Entrance Facilities and Direct-Trunked and/or Tandem-Switched Transport are ordered on a single ASR, only one Access Ordering Charge applies. This charge is in addition to any Service Installation Charge for Entrance Facility installations.

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## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.3 Access Order Charges (Cont'd)5.3.1 Access Service Request Modifications (Cont'd)(B) Access Ordering Charge (Cont'd)

This charge also applies, per ASR, for the installation, addition, change, rearrangement or move of EIS Switched and Special Access Service facilities, except as specified in 6.5.4(B).

CHARGE

Access Ordering Charge, per order  
Alabama  
Missouri

\$32.01  
\$32.01

## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.3 Access Order Charges (Cont'd)5.3.1 Access Service Request Modifications (Cont'd)(C) Design Change Charge

The customer may request a design change to the service ordered. A design change is any change to an Access Service Request which requires engineering review. An engineering review is a review by Telephone Company personnel, of the service ordered and the requested changes to determine what changes in the design, if any, are necessary to meet the changes requested by the customer. Design changes include such things as the addition or deletion of optional features or functions or a change in the signaling arrangements associated with Switched Access Entrance Facility interface groups. Design changes do not include a change Special Access Service circuit type. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate cancellation charges applied.

The Telephone Company will review the requested change, notify the customer whether the change is a design change, if it can be accommodated and 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 will apply on a per order per occurrence basis, for each order requiring a design change. The applicable charge is:

	<u>Rate</u>
Design Change Charge, per order	\$26.21

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

## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.3 Access Order Charges (Cont'd)5.3.1 Access Service Request Modification (Cont'd)(D) Expedited Order Charge

An Expedited Order Charge will apply when a customer requests a service date that is earlier than the standard interval date for the following services ordered:

If the company agrees to provide the service on an expedited basis, an expedited order charge will apply.

The request for an earlier service date may be received from the customer prior to the issuance of an access order, or after the access order has been issued but prior to the service date. When the request for expediting occurs subsequent to the issuance of the Access Order, a Service Date Change Charge as set forth preceding also applies.

If the Telephone Company is subsequently unable to meet an agreed upon expedited service date, no Expedited Order Charge will apply unless the missed service date was caused by the customer.

In the event the customer cancels an expedited access order, the Expedited Order Charge will apply in addition to cancellation charges as described in 5.3.2 (C) following.

An Expedited Order Charge will not apply to access service orders expedited for Telephone Company reasons.

The Expedited Order Charge will apply per access order, per business day improved from the standard interval date to the in-service date. The rate for an Expedited Order Charge is set forth following.

	<u>Rate</u>
Per Access Order, Per Business Day	\$400.00



## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.3 Access Order Charges (Cont'd)5.3.2 Cancellation of an Access Service Request(A) Delay of Service Date by Customer

A customer may cancel an Access Order for the installation of service at any time prior to notification by the Telephone Company that service is available for the customer's use. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the order is to be canceled. The verbal notice must be followed by written confirmation within 10 days. If a customer or a customer's end user is unable to accept Access Service for any service except Ethernet Virtual Private Line (EVPL) within 30 calendar days of the latest agreed upon service date (i.e. firm order confirmation date), the customer has the choice of the following options:

- The Access Order will be canceled and charges set forth in (B) following will apply if the service has not been fully provisioned; or
- The Access Order will be completed and billing for the service will commence if the service has been fully provisioned or the customer has indicated that billing for the service should begin.

If a customer or a customer's end user is unable to accept Access Service for Ethernet Virtual Private Line (EVPL) within 5 business days of the latest agreed upon service date (i.e. firm order confirmation date), the customer has the choice of the following options:

- The Access Order will be canceled and charges set forth in (B) following will apply if the service has not been fully provisioned; or
- The Access Order will be completed and billing for the service will commence if the service has been fully provisioned or the customer has indicated that billing for the service should begin.

## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.3 Access Order Charges (Cont'd)5.3.2 Cancellation of an Access Service Request (Cont'd)(B) Delay of Service Date by Telephone Company

If the Telephone Company misses a service date by more than 30 days due to circumstances over which it has direct control (excluding, e.g., Acts of God, governmental requirements, work stoppages and civil commotions), the customer may cancel the Access Service Request without incurring cancellation charges.

## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.3 Access Order Charges (Cont'd)5.3.2 Cancellation of an Access Service Request (Cont'd)(C) Cancellation Charge

When a customer cancels an Access Service Request prior to the service date, the Cancellation Charge specified in (1) following, shall apply.

- (1) When an ASR for Special Access Service is canceled on or after the Application Date, the Cancellation Charge is calculated, on a per ASR basis, by multiplying the total nonrecurring charges for the quantity ordered by the number of business days elapsed since the Application Date, and dividing that figure by the number of days in the service interval (i.e., the number of business days between the Application Date and the last day of the service date interval).

(D) Partial Cancellation Charge

Any decrease in the number of ordered Special Access Service circuits on a pending ASR will be treated as a partial cancellation. The charge will be determined by multiplying the special access nonrecurring charge for the canceled portion of the order by the number of business days elapsed since the order date and dividing that figure by the number of days in the service interval.

## ACCESS SERVICE

5. Ordering Switched and Special Access Service (Cont'd)5.3 Access Order Charges (Cont'd)5.3.3 Minimum Period Charges

- (A) When Access Service is disconnected prior to the expiration of the minimum period, charges are applicable for the balance of the minimum period. A disconnect constitutes facilities being returned to available inventory.

For purposes of applying minimum period charges, the disconnect date shall be two business days after the date the Telephone Company receives written notification from the customer or the date the customer requests service be disconnected, whichever is the later date.

- (B) The Minimum Period Charge for monthly billed services will be determined as follows:

For Special Access Service the charge for a month or fraction thereof is the applicable monthly rates for the service as set forth in 7.2.3 following.

The Minimum Period Charge for part-time Program Audio Services is the applicable daily rate for the service as set forth in 7.2.3 following.

- (C) Minimum Service Period requirements apply to all DS1 and DS3 services. Early Termination Liability not defined elsewhere for DS1 and DS3 will be 50% of the remaining months of the agreed upon term after the Minimum Service Period.

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## ACCESS SERVICE

7. Special Access Service

Effective October 18, 2020, the Company offers Dedicated Ethernet, Switched Ethernet, and Wavelength Services on a private carriage basis and reserves the right to make individualized decisions regarding the provision of service to individual customers. The Company may negotiate the specific prices and terms for Dedicated Ethernet, Switched Ethernet, and Wavelength Services for each individual customer. Unless otherwise specified in this section, the general terms and conditions of this Service Guide apply to Dedicated Ethernet, Switched Ethernet, and Wavelength Services. <sup>[1]</sup>

As of August 1, 2017, Special Access Services were changed to a Competitive or Non-Competitive designation. Non-Competitive End-User Channel Terminations (EUCTs) are filed as part of Tariff F.C.C. No. 3 and remain under Price Cap Regulation. Other Special Access Services required to complete the circuit are covered by this ISG.

The following areas are deemed Non-Competitive for Special Access EUCTs and are covered by Tariff F.C.C. No. 3. Areas not listed are deemed Competitive for Special Access Services and are covered by this ISG.

ALABAMA					
Serving Wire Center	8-Digit CLLI Code	Serving Wire Center	8-Digit CLLI Code	Serving Wire Center	8-Digit CLLI Code
Aliceville	ACVLALXA	Fayette	FYTTALXA	Morrison Crossroad	MRCRALXA
Alberta	ALBRALXA	Gordo	GORDALXA	Panola	PANLALXA
Ashland	ASLDALXA	Guin	GUINALXA	Pell City	PLCYALXA
Brilliant	BRILALXA	Hackleburg	HCBGALXA	Pine Hill	PNHLALXA
Berry	BRRYALXA	Heflin	HFLNALXA	Reform	RFRMALXA
Coffeeville	CFVLALXA	Haleyville	HLVLALXA	Thorsby	THRSALXA
Chulafinnee	CHLFALXA	Hamilton	HMTNALXA	Woodland	WDLALXA
Carrollton	CRTNALXA	Jemison	JMSNALXA	Wadley	WDLYALXA
Double Springs	DBSPALXA	Lecta	LECTALXA	Wedowee	WEDWALXA
Delta	DELTALXA	Lincoln	LNCLALXA	Winfield	WNFDALXA
Ethelsville	ETVLALXA	Lineville	LNVLALXA		

<sup>[1]</sup> Services include Ethernet Virtual Private Line, Metro Ethernet, Ethernet Transport, and Optical Wavelength.

## ACCESS SERVICE

7. Special Access Service (Cont'd)

The following areas are deemed Non-Competitive for Special Access End User Channel Terminations (EUCTs) and are covered by Tariff F.C.C. No. 3. Areas not listed are deemed Competitive for Special Access Services and are covered by this ISG.

MISSOURI					
Serving Wire Center	8-Digit CLLI Code	Serving Wire Center	8-Digit CLLI Code	Serving Wire Center	8-Digit CLLI Code
Alton	ALTNMOXA	Galena	GALNMOXA	Preston	PSTNMOXA
Branson	BASNMOXA	Gainesville	GSVLMOXA	Rockaway Beach	RCBHMOXA
Branson	BASWMOXA	High Hill	HGHLMOXA	Reeds Spring	RDSPMOXA
Bradleyville	BDYLMOX	Highlandville	HLDVMOXA	Safe	SAFEMOX
Buffalo	BFLOMOXA	Hurley	HRLYMOXA	Summersville	SMVIMOX
Blue Eye	BLEYMOXA	Hermann	HRMNMOXA	Sparta	SPRTMOXA
Belle	BLLEMOXA	Hermitage	HRMTMOXA	Saint James	STJMMOX
Bland	BLNDMOXA	Jamestown	JMTWMOXA	Seymour	SYMRMOXA
Cabool	CABLMOXA	Kimberling City	KMCYMOXA	Theodosia	THDSMOXA
Cedarcreek	CDCKMOXA	Koshkonong	KSHKMOXA	Thomasville	THVLMOXA
Chamois	CHMSMOXA	Louisburg	LSBGMOXA	Thayer	THYRMOXA
Caulfield	CLFDMOX	Marshfield	MRFDMOX	Urbana	URBNMOXA
Conway	CNWYMOXA	Morrison	MRSNMOXA	Vichy	VCHYMOXA
Cape Fair	CPFRMOXA	Mount Sterling	MTSTMOXA	Wasola	WASLMOXA
Cross Timbers	CRTMMOX	Mountain View	MTVWMOX	Willow Springs	WLSPMOXA
Dora	DORAMOX	Niangua	NINGMOXA	West Plains	WPLNMOXA
Elkland	EKLDMOX	Ozark	OZRKMOXA	Wheatland	WTLDMOXA
Fordland	FRLDMOX	Protem	PRTMMOX		
Forsyth	FRSYMOXA	Pittsburg	PSBGMOXA		

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 Provision of Special Access Service

Special Access Service provides a dedicated transmission path to connect customer designated premises\*, either directly or through a Telephone Company hub where bridging or multiplexing functions are performed. Special Access Service may also be combined with Switched Access Services in the provision of a customer's interstate communications service (e.g., WATS, 800, 888 or WATS-type Services). Special Access Service includes all exchange access not utilizing Telephone Company central office switches.

Certain Special Access Services listed in this section of the service guide may not be currently offered in all Telephone Company locations but may be provided upon customer request, on an individual case basis, if facilities can be made available with reasonable effort. The Telephone Company will work cooperatively with the Customer to provide the service on a timely basis.

Special Access Service purchased from the provisions of this service guide may be commingled with unbundled network elements, where available, or unbundled network element combinations, where available, purchased pursuant to the Commission's Part 51 Interconnection Rules and in compliance with the Federal Communications Commission's Report and Order and Order on Remand and Further Notice of Proposed Rulemaking in CC Docket Nos. 01-338, 96-98 and 98-147, adopted February 20, 2003 and released August 21, 2003 (FCC 03-36). Unbundled elements and commingling are not available in designated rural CenturyTel Operating companies where a 251 (f) exemption is in effect.

7.1.1 Circuit Types

Following are the types of circuits used to provide Special Access Services:

- Voice Grade (VG) <sup>[1]</sup>
- Program Audio (AP) <sup>[1]</sup>
- Digital Data (DA) <sup>[1]</sup>
- High Capacity (HC)
- Ethernet Transport (ET)
- Ethernet Virtual Private Line (EVPL)
- SONET
- Synchronous Optical
- Optical Wavelength Service

These circuits are digital and optical. Analog circuits are differentiated by frequency spectrum and bandwidth. Digital connections are differentiated by bit rate.

\* Telephone Company Centrex CO-like switches are considered to be customer premises for purposes of this service guide.

<sup>[1]</sup> Effective February 1, 2020 Voice Grade, Program Audio and Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 Provision of Special Access Service (Cont'd)7.1.1 Circuit Types (Cont'd)

Each of the preceding circuits has its own characteristics. All of the circuit types are subdivided by one or more of the following:

- Transmission specifications,
- Bandwidth,
- Speed (i.e., bit rate),
- Spectrum

The circuit descriptions set forth in this section specify the characteristics of the basic circuit and indicates whether the circuit is provided between customer designated premises or between a customer designated premises and a Telephone Company hub where bridging or multiplexing functions are performed, or between a customer designated premises and a Telephone Company WATS Serving Office.

Customers can order a basic circuit and select from a list of available technical specifications packages (customized or predefined), channel interfaces, and optional features to design a circuit which meets the Customer's specific communications needs. For purposes of ordering circuits, each has been identified as a type of Special Access circuit. However, such identification is not intended to limit a customer's use of the circuit, nor to imply that a circuit is limited to a particular use.

The optional features and functions available with each type of basic circuit are included in the individual service description sections following. The optional features and functions information also indicates with which technical specifications packages they are available.

When a customized circuit is ordered, the Telephone Company may determine that Additional Engineering is required to meet the customer's request for service. The customer will be notified whether Additional Engineering charges apply and will be given an estimate of the hours to be billed before any further action is taken on the order. Additional engineering charges are determined as set forth in 8. 1 following.

## ACCESS SERVICE

7. Special Access Services (Cont'd)7.1 Provision of Special Access Service (Cont'd)7.1.2 Service Configurations

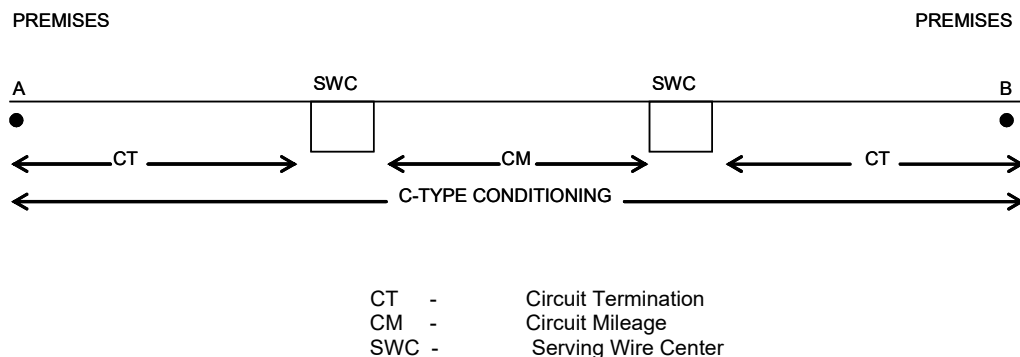
There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

(A) Two-Point Service

A two-point service connects two customer designated premises, either on a directly connected basis or through a hub where multiplexing functions are performed. A Voice Grade Special Access Circuit may be provided as a two-point service connecting an end user premise and a Telephone Company switch when Special Access is used in conjunction with Switched Access as set forth in 6.3.2(T) of the BRIGHTSPEED LOCAL OPERATING COMPANIES Tariff F.C.C. No 3 for Switched Access Interface Arrangements.

All types of Special Access Service may be provided as two-point service.

The following diagram depicts an example of a two-point Voice Grade service connecting two customer designated premises located 15 miles apart. The service is provided with the optional feature of C-Type conditioning.



Applicable rate elements in the preceding diagram are:

- Circuit Termination (2 applicable)
- Circuit Mileage (fixed rate plus rate per airline mile between SWC)
- C-Type Conditioning Optional Feature

In addition, a Special Access Surcharge and charges for additional Optional Features and Functions may apply.

## ACCESS SERVICE

7. Special Access Services (Cont'd)7.1 Provision of Special Access Service (Cont'd)7.1.2 Service Configurations (Cont'd)(B) Multipoint Service

Multipoint service connects three or more customer designated premises through a Telephone Company hub (i.e., bridging locations). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the Service Descriptions for the appropriate circuit.

The circuit between hubs on a multipoint service is a mid-link. 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 multi-point facilities.

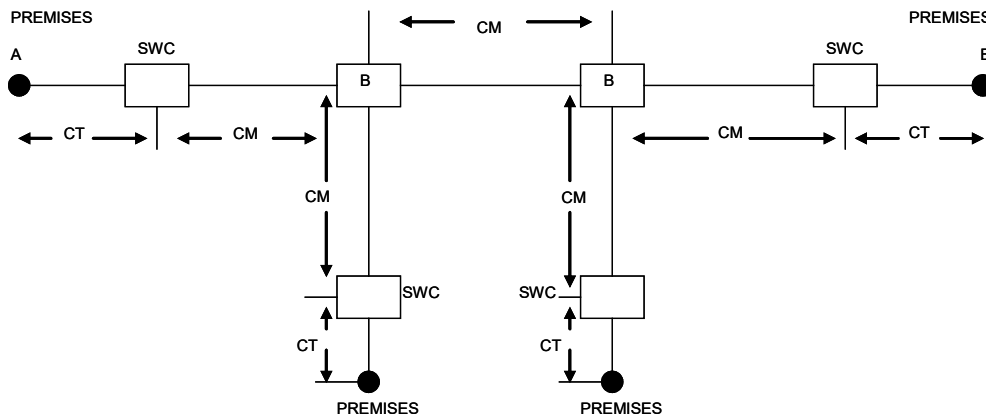
Multipoint service utilizing a customized technical specifications package, as set forth in 7.1.3, will be provided when technically possible.

When ordering, the customer will specify the desired bridging hub(s). National Exchange Carrier Association, Inc. Tariff F.C.C. No. 5 identifies serving wire centers, hub locations and the type of bridging functions available.

## ACCESS SERVICE

7. Special Access Services (Cont'd)7.1 Provision of Special Access Service (Cont'd)7.1.2 Service Configurations (Cont'd)(B) Multipoint Service (Cont'd)

The following diagram depicts an example of a Voice Grade multipoint service connecting four customer premises via two customer specified bridging hubs.



CT	-	Circuit Termination
CM	-	Circuit Mileage
B	-	Bridging
SWC	-	Serving Wire Center

Applicable rate elements are:

- Circuit Termination (4 applicable)
- Circuit Mileage (5 sections-fixed rate plus rate per mile between SWC)
- Bridging Optional Features (6 applicable, i.e., each bridge port)

In addition, the Special Access Surcharge, Message Station Equipment Recovery Charge, and charges for other Optional Features and Functions may be applicable.

## ACCESS SERVICE

7. Special Access Services (Cont'd)7.1 Provision of Special Access Service (Cont'd)7.1.3 Technical Specifications Packages

Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is included in each individual service description section following, in a matrix format with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Special Access Service.

The letter "C" following the two letter code indicates the technical specifications package for a customized service. A numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

All services installed after the effective date of this service guide will conform to the transmission specification standards contained in this service guide or in the following Technical References for each category of service:

Voice Grade	PUB	TR-NPL-000335
	PUB	41004, Table 4
Program Audio	PUB	TR-NPL-000337
Digital Data	PUB	TR-NPL-000341
	PUB	62310
High Capacity	PUB	TR-NPL-000342
	PUB	62411
	PUB	TR-NPL-000054
Ethernet Transport	ANSI / IEEE	X3.802.3
	ANSI / IEEE	X3.802.3u
	ANSI / IEEE	X3.802.3z

## ACCESS SERVICE

7. Special Access Services (Cont'd)7.1 Provision of Special Access Service (Cont'd)7.1.3 Technical Specifications Packages (Cont'd)

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this service guide, except that existing services with performance specifications exceeding the standards listed in this provision will be maintained at the performance levels specified in this service guide.

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

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 Provision of Special Access Service (Cont'd)7.1.4 Channel Interfaces

Channel interfaces at each point of termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in 9 following, in a combination format.

Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth in 7.1.3 preceding. When a customized circuit is requested, all channel interface combinations available with the specified type of service are available with the customized circuit.

7.1.5 Alternate Use

Alternate Use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section 12, Specialized Service or Arrangements. The customer will pay the stated rates for the Access Service rate elements for the service ordered (i.e., Circuit Terminations, Circuit Mileage [as applicable] and Optional Features and Functions [if any]).

7.1.6 Special Facilities Routing

A customer may request that the Special Access used be specially routed. The regulations, rates and charges for Special Facilities Routing are as set forth in Section 11 following.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 Provision of Special Access Service (Cont'd)7.1.7 Design Layout Report

At the customer request, the Telephone Company will provide the make-up of the facilities and services provided under this service guide as Special Access Service to aid the customer in designing its overall service. The information will be provided to the customer at no charge in the form of a Design Layout Report and will be reissued or updated whenever the described facilities are materially changed.

7.1.8 Acceptance Testing

At the customer's request, the Telephone Company will cooperatively test, at the time of installation and at no additional charge, the following parameters:

- (A) For Voice Grade analog services, acceptance testing will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise as applicable according to the order for service. Voice Grade services acceptance testing will also include a balance (improved loss) test if the customer has ordered that optional feature.
- (B) For services other than voice Grade, acceptance tests will include tests for the parameters applicable to the service as specified by the customer in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing and Nonscheduled Testing, as described in 8.4 following, are available at the customer's request. All test results will be made available to the customer upon request.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 Provision of Special Access Service (Cont'd)7.1.9 Jurisdictional Determination

- (A) Special Access circuits carrying exclusively interstate traffic will be provided in accordance with the applicable rules and regulations of this service guide.

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

- (1) If the customer's estimate of the interstate traffic on the circuit involved constitutes 10% or less of the total traffic on that circuit, the circuit will be provided in accordance with the applicable rules and regulations of the appropriate intrastate tariff.
  - (2) If the customer's estimate of the interstate traffic on the circuit involved constitutes more than 10% of the total traffic on that circuit, the circuit will be provided in accordance with the applicable rules and regulations of this service guide.
- (B) If a billing dispute arises or a regulatory commission questions the reported jurisdiction, the Telephone Company will ask the customer to provide the information the customer uses to determine the jurisdiction of the circuit. The customer shall supply the information within 30 days of the Telephone Company request. The customer shall keep records of system design and functions from which the jurisdiction of its special access circuits can be ascertained. Upon request of the Telephone Company the customer shall make the records available for inspection as reasonably necessary for purposes of verification of the reported jurisdiction.
- (C) Customer certification of the jurisdiction of special access circuits is accomplished by indicating the jurisdiction of the circuit (interstate or intrastate) on the Access Service Request. Customer certification of the jurisdiction of special access circuits in place as of the effective date of these revisions shall be provided to the Telephone Company in the form of written correspondence indicating the jurisdiction of each special access circuit.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 Provision of Special Access Service (Cont'd)7.1.9 Jurisdictional Determination (Cont'd)

- (D) Customers reporting a change in the jurisdiction of special access circuits subject to individual case basis (ICB) rates and charges set forth in this service guide will not be subject to termination liability charges unless the change results in the termination of the service.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications and Regulations

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

7.2.1 Rate Categories

The following rate categories apply to Special Access Service:

- Circuit Terminations
- Circuit Mileage
- Optional Features and Functions
- Non Recurring Charges
- Special Access Surcharge
- Special Access Cross Connect
- Term Payment Plan (TPP) - DS1
- Optional Payment Plan (OPP) - Fractional T1

These rate categories are described in Sections 7.2.1(A) through (F) following.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications and Regulations (Cont'd)7.2.1 Rate Categories(Cont'd)(A) Circuit Termination

The Circuit Termination rate category provides for the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Circuit Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as an optional feature as set forth in (C) following. One Circuit Termination charge applies per customer designated premises at which the circuit is terminated. This charge will apply even if the customer designated premises and the serving wire center are co-located in a Telephone Company building. Circuit Termination rates for DS3 High Capacity Services vary with the number of services and/or level of capacity as set forth in Section 7.2.6 following.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(B) Circuit Mileage

The Circuit Mileage rate category provides for the end office equipment and transmission facilities between serving wire centers and/or Telephone Company hubs. In addition, when Special Access is used in conjunction with Switched Access Service as set forth in BRIGHTSPEED LOCAL OPERATING COMPANIES Tariff F.C.C. No 3 Section 6.3.2 for Switched Access Interface Arrangements, and the end office serving the customer's end user premises is not a WATS Serving Office. The Circuit Mileage charge is composed of a flat monthly charge plus a rate per mile.

MetroLAN Circuit Mileage provides flat rate non-distance sensitive facilities for DS1 bandwidth on fiber optic rings as set forth in 7.2.7. The rate element associated with MetroLAN is a monthly recurring charge as set forth in 7.11.5(B).

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

(1) Fixed Rate

The fixed rate component of Circuit Mileage is applied at each end of each measured segment of the Circuit Mileage facility. When two or more customer designated premises are served by a common serving wire center (i.e., mileage is zero) the fixed rate component is not applied. The Circuit Mileage-Fixed rate does not apply when the Telephone Company provides only an intermediate portion of a circuit mileage facility and no circuit mileage facility terminations. When Special Access is used in conjunction with Switched Access where the customer's end user premises for the Special Access facility is served by a Telephone Company WATS Serving Office, the fixed rate does not apply.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(B) Circuit Mileage (Cont'd)(2) Per Mile Rate

The mileage to be used to determine the monthly rate for the per mile portion of Circuit Mileage is calculated on the airline distance between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designated premises and a Telephone Company hub, between two Telephone Company hubs, or between a Telephone Company end office and a WATS serving office. The serving wire center associated with a customer designated premises is the serving wire center from which this customer designated premises would normally receive dial tone. The methodology for mileage calculation and serving wire center V&H coordinates are specified in National Exchange Carrier Association Tariff FCC. No. 4. Where the calculated miles include a fraction, the value is always rounded up the next full mile.

When hubs are involved, mileage is computed and rates applied separately for each section of the Circuit Mileage, i.e., customer designated premises serving wire center to hub, hub to hub and/or hub to customer designated premises serving wire center. However, when any service is routed through a hub for purposes other than customer specified 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 serving wire centers associated with the customer designated premises.

When more than one Telephone Company is involved in the provision of Special Access Service, the mileage for the per mile component of Circuit Mileage for each Telephone Company is calculated as set forth in 2.4.7 preceding.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(C) Optional Features and Functions

Optional Features and Functions may be added to a basic circuit service to improve its quality or utility to meet the customer's specific communications requirements. These optional features and functions are identifiable with specific equipment, and represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for a single rate element.

Descriptions for each of the available Optional Features and functions are set forth in Sections 7.3 through 7.11 following. Specific rate applications for multiplexing are set forth in 7.2.4 following.

(D) Nonrecurring Charge

Nonrecurring charges are one-time charges that apply for installation of Special Access Services, installation of optional features and functions, and moves and service rearrangements.

(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are applied per Circuit Termination.

Two levels of charges apply for the installation of a three or twelve capacity DS3 High Capacity system as set forth in Section 7.2.6 (A) following. A nonrecurring charge applies for the first Circuit Termination ordered by the customer and a separate nonrecurring charge will apply to each additional Circuit Termination to be installed within the same three or twelve capacity system between the same customer locations. For individual noncapacity DS3 service, the nonrecurring charge for each installation will apply at the same rate per DS3 Circuit Termination.

Customers subscribing to the Fractional T1 OPP arrangements, at rates set forth in 7.11.5(A), will not be assessed a nonrecurring charge.

The Regulations in Section 7.2.1(D)(3) will apply to FT1 OPP customers when required for charges and other service rearrangements.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(D) Nonrecurring Charge (Cont'd)(2) Installation of Optional Features and Functions

Nonrecurring charges apply for the installation of some of the optional features and functions available with Special Access Service. 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 optional features for which non-recurring charges apply are:

- Voice Grade Data Capability
- Voice Grade Telephoto Capability
- Program Audio Gain Conditioning
- Program Audio Stereo

(3) Service Rearrangements

Service rearrangements are changes to existing (installed) services which may be administrative only in nature, or that involve actual physical change to the service. Changes to pending orders are set forth in 5.3.1 preceding.

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 7.2.1(D)(4).

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



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(D) Nonrecurring Charge (Cont'd)(3) Service Rearrangements (Cont'd)

## (a) (Cont'd)

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.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(D) Nonrecurring Charge (Cont'd)(3) Service Rearrangements (Cont'd)

## (b) All other service rearrangements will be charged for as follows:

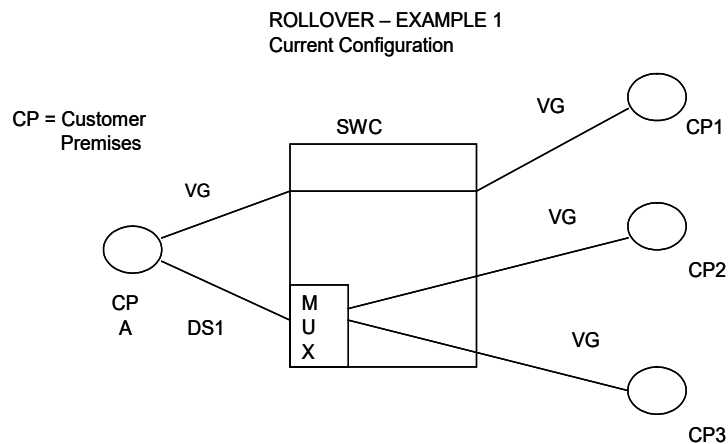
- If the change involves the addition of another termination to an existing two-point or multipoint service, installation charges for each location added will apply.
- If the change involves the addition of an optional feature or multiplexing arrangement, the installation charge associated with the optional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

## ACCESS SERVICE

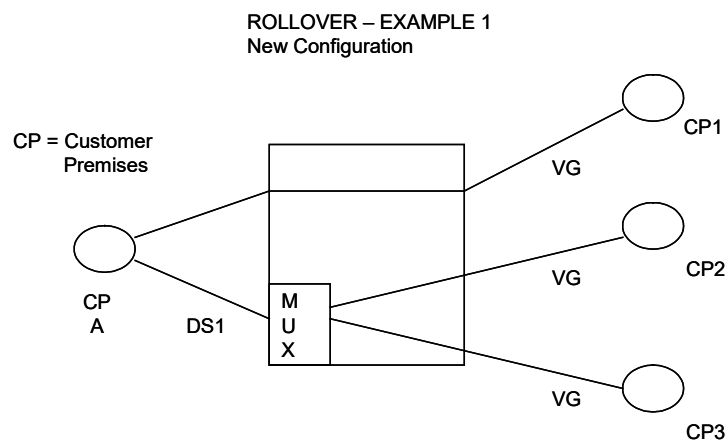
7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)

## (D) Nonrecurring Charge (Cont'd)

## (3) Service Rearrangements (Cont'd)



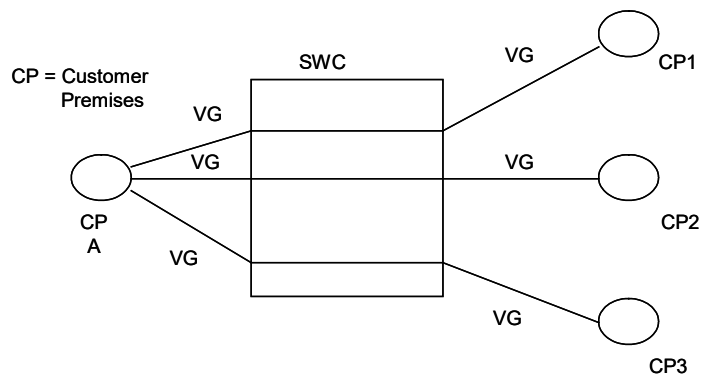
The customer requests that the voiceband circuit (VG) between customer premises A and customer premises 1 be “rolled over” to the DS1 serving customer premises A. No. NRCs apply for this request.



## ACCESS SERVICE

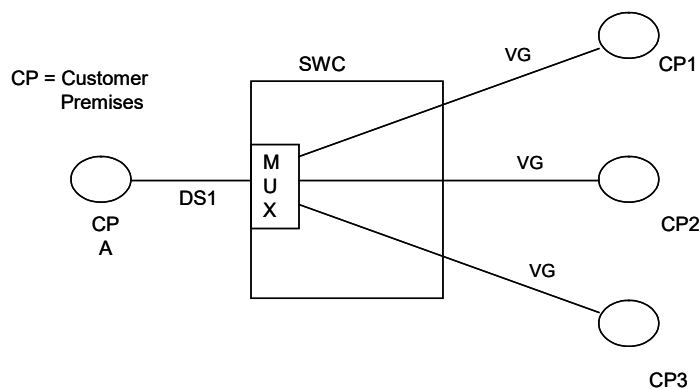
7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(D) Nonrecurring Charge (Cont'd)(3) Service Rearrangements (Cont'd)

ROLLOVER – EXAMPLE 2  
Current Configuration

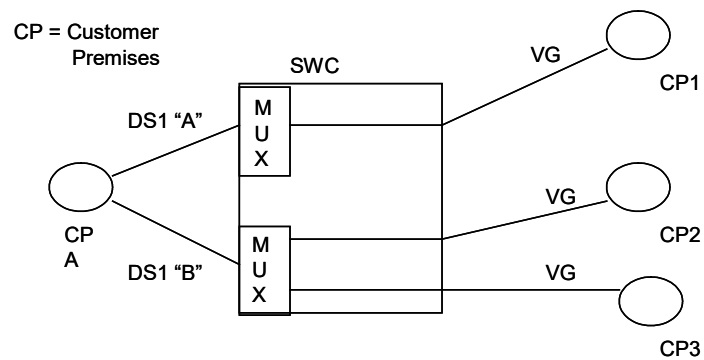


The customer request the installation of DS1 between the serving wire center (SWC) and customer premises A and DS1/Voice multiplexer in the SWC. The customer also request that the voiceband circuits serving customer premises 1,2 and 3 be “rolled over” to the new DS1. All NRCs apply for the installation of the DS1 and multiplexer. No NRCs apply for the voiceband rollovers to the new high capacity circuit.

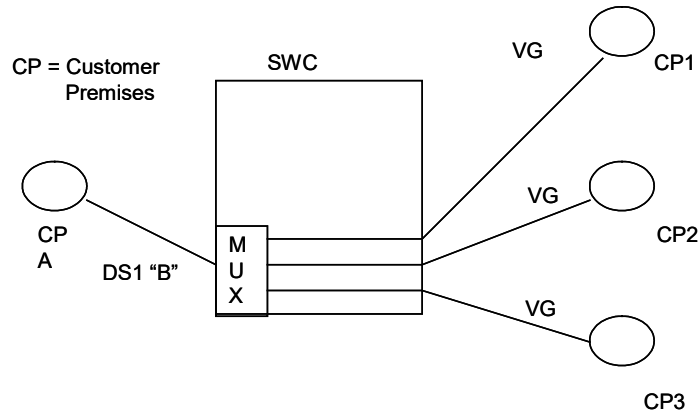
ROLLOVER – EXAMPLE 2  
New Configuration



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(D) Nonrecurring Charge (Cont'd)(3) Service Rearrangements (Cont'd)GROOMING – EXAMPLE 1  
Current Configuration

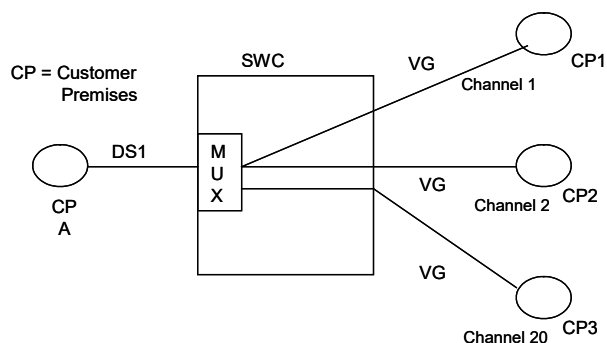
The customer request that the voiceband (VG) circuit serving customer premises 1 be moved from the DS1 "A" circuit to the DS1 "B" circuit. No NRCs apply for this request.

GROOMING – EXAMPLE 1  
New Configuration

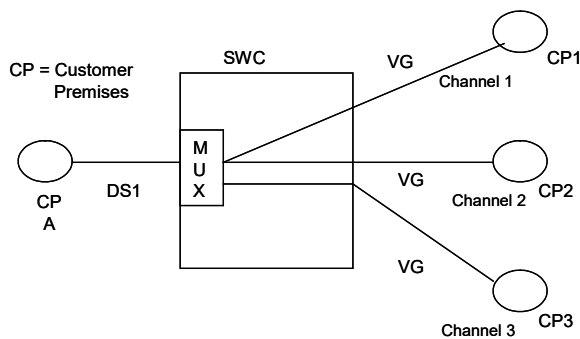
Effective: October 4, 2022

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(D) Nonrecurring Charge (Cont'd)(3) Service Rearrangements (Cont'd)GROOMING – EXAMPLE 2  
Current Configuration

The customer request that the voiceband (VG) circuit serving customer premises 1 be moved from the DS1 "A" circuit to the DS1 "B" circuit. No NRCs apply for this request.

GROOMING – EXAMPLE 2  
New Configuration

- If the change involves reterminations other than Rollover 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.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(D) Nonrecurring Charge (Cont'd)(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 may also be applicable at the different customer premises.

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 customer premises or to a different customer premises.

(a) Same CDL

When the move of a termination, as defined in Section 2.1.5, for special access is to a new point within the same customer premises (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.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(D) Nonrecurring Charge (Cont'd)(4) Moves (Cont'd)(b) Different Customer Premises

- (1) When the move is to a different customer premises (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 customer premises 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.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(E) Surcharge for Special Access Service(1) General

Special Access Services provided under this service guide may be subject to the monthly Special Access Surcharge.

(2) Application

The Special Access Surcharge will apply to each interstate Special Access Service that terminates on an end user's PBX or other device where, through a function of the device, the Special Access Service interconnects to the local exchange network. The Surcharge will apply irrespective of whether the interconnection function is performed in equipment located at the customer's premises or in a Centrex CO-type switch.

The monthly Special Access Surcharge applies to special access facilities on a per voice equivalent basis as shown in the following example:

<u>Special Access Facility</u>	<u>Voice Grade Equivalent</u>		<u>Surcharge</u>		<u>Monthly Charge</u>
Group	12	x	\$25	=	\$300.00
DS1	24	x	\$25	=	\$600.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(E) Surcharge for Special Access Service (Cont'd)(2) Application (Cont'd)

In the case of multipoint special access facilities, one Special Access Surcharge will apply for each termination of a special access circuit at an end user's premises.

The Telephone Company will bill the customer who orders the special access facility the Special Access Surcharge per installation unless the facility is exempt from the surcharge as set forth in (3) following.

(3) Exemption

The special access facility will be exempted from the monthly surcharge upon receipt of the customer's written certification for the following Special Access Service terminations:

- 1) an open-end termination in a Telephone Company switch of an FX line, including CCSA and CCSA-equivalent ONALs; or
- 2) an analog circuit termination that is used for radio or television program transmission; or
- 3) a termination used for TELEX service; or
- 4) a termination that by the nature of its operating characteristics could not make use of Telephone Company common lines such as terminations which are restricted through hardware or software; or
- 5) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line charges, such as where the special access facility accesses only FGA and no local exchange lines, or special access facility between customer points of termination, or special access facility connecting CCSA or CCSA-type equipment (inter-machine trunks); or a termination that the customer certifies to the Telephone Company is not connected to a PBX or other device capable of interconnecting the special access facility to a local exchange subscriber line.

Written certification for exemption must include the reason the service is exempted from the surcharge using the categories of exemption as stated above. An ASR may be used for exemption certification, provided all information as required by this section is included. The Telephone Company will bill the surcharge to all customers who have not provided valid exemption certification.

Effective: October 4, 2022

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(E) Surcharge for Special Access Service (Cont'd)(3) Exemption (Cont'd)

The Telephone Company will cease billing the Special Access Surcharge when certification that the Special Access facility has become exempt from the surcharge, as set forth preceding, is received. If the status of the special access facility was changed prior to the receipt of the exemption certification, the Telephone Company will credit the customer's account, not to exceed ninety days, based on the effective date of the change specified by the customer in the letter of certification.

## (4)

Monthly Rate

Surcharge for Special  
Access Service

- Applicable to all jurisdictions  
of the Issuing Carriers listed  
on Title Page 2.
- Per Voice Grade Equivalent

\$25.00

(F) Reserved for Future Use

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(G) DS1 Term Payment Plan (TPP) - GRANDFATHERED

Effective May 16, 2019 the following DS1 Term Payment Plan (TPP) will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

(1) Description

The DS1 Term Payment Plan (TPP) allows customers term discounts for DS1 circuit termination. A customer may select this service for either a single state or multi-state level. TPP is offered for a 1, 2, 3, or 5 year service commitment period for the DS1 circuit termination. All TPP DS1 circuit terminations will be billed the same rate, depending on the length of the term selected by the customer.

(2) Rate Changes

Decreases in the TPP monthly recurring circuit termination rates will be passed on to subscribers of the plan.

(3) Commitment Levels

To initiate a TPP, on either a single state or multi-state plan, the minimum commitment is as shown below.

Number of States	Minimum Number of Circuit Terminations
1	25
2	50
3	75
4	100
5 and over	125

The commitment levels will be met if the customer has the minimum number of DS1 TPP circuit terminations in service. If the customer has committed to more than the minimum number of circuit terminations required, as shown above, an allowance of minus 2% or plus 5 % will be considered as having met the commitment level.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(G) DS1 Term Payment Plan (TPP) [1] (Cont'd)(4) Changes to Commitment Levels

Written notice must be submitted by the customer to change the commitment level of DS1 circuit terminations. If, as the result of increasing or decreasing the commitment level, service is changed from a TPP to a DS1 standard arrangement, or from a standard arrangement to a TPP arrangement an ASR will be required within 30 days for all services changed. Only one TPP arrangement will be allowed per customer for each term period. Penalties for decreasing the commitment level are discussed in 7.2.1(G)(8).

(5) TPP Plan Enrollment

When the customer elects to enroll in a TPP they must specify, in writing, the enrollment date (which will be the anniversary date) and the commitment level. The specified enrollment date must be within 30 days of receipt. The customer must also select whether the TPP will be a single state or multi-state plan and specify the states to be included. By the specified date the customer must issue ASRs to add DS1 circuit terminations to the TPP and/or convert standard arrangement to the TPP to fall within the commitment range specified in 7.2.1(G)(3).

[1] Effective May 16, 2019 the DS1 Term Payment Plan (TPP) will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(G) DS1 Term Payment Plan (TPP) [1] (Cont'd)(6) Annual Review

Each customer's TPP will be reviewed annually. The customer will be notified in writing as to the status of the TPP. This notification will inform the customer of any TPP DS1 circuit terminations that must be converted. If the customer has increased the number of DS1 circuit terminations from the initial commitment beyond the range specified in 7.2.1(G)(3), he will have the option of increasing the commitment level for the remainder of the plan. If the customer chooses not to increase the commitment level of DS1 circuit terminations for the remaining year(s) of the plan, he must convert the increased number of DS1 circuit terminations to the standard payment plan. The DS1 circuit terminations that are converted to the standard payment plan will not be eligible for re-conversion to the TPP for a ten month period. The customer may decrease the commitment level at the time of the annual review and pay the applicable penalties for the amount of DS1 circuit terminations being decreased. The customer will have 30 days from receipt of this notification to convert DS1 circuit terminations.

If the customer does not take action during the 30 day period, the commitment level will be automatically changed to the number of TPP DS1 circuit terminations in effect at the anniversary date. Penalties will apply as set forth in 7.2.1(G)(8).

[1] Effective May 16, 2019 the DS1 Term Payment Plan (TPP) will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(G) DS1 Term Payment Plan (TPP) [1] (Cont'd)(7) TPP Conditions

If a DS1 service has two DS1 circuit terminations, to include this service as part of a TPP, both DS1 circuit terminations must be in the TPP.

After enrolling in the plan, the customer may add or delete DS1 circuit terminations rated at the specified term period rate at any time during the plan. For example, if the customer agrees to a 2 year TPP, they may add DS1 circuit terminations at any time at the 2 year TPP rate.

Individual states cannot be added or deleted during the plan period.

A customer may subscribe to only one plan for each term period within a given state.

(8) Penalties for Failing To Meet Commitment

When the number of TPP Services at the annual review is less than the acceptable commitment range, the following penalty charges will apply, based on the difference between the commitment level less 2% and the number of TPP services in effect at the annual review. For example, if the commitment level is 100 and the customer has 90 DS1 TPP circuit terminations at time of annual review, the penalties described below will be applied to the difference of 98 (2% less than 100) and 90, which would be 8 in this example.

(a) The penalties charged during the first year of the TPP will be the full MRC for 4 months plus 10% of the MRC for the remaining number of months.

(b) The penalties charged during the subsequent years of the TPP will be 10% of the MRC for 4 months plus 10% of the MRC for the remaining number of months.

[1] Effective May 16, 2019 the DS1 Term Payment Plan (TPP) will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(G) DS1 Term Payment Plan (TPP) [1] (Cont'd)(9) TPP Nonrecurring Charge

Customers subscribing to a TPP will be assessed a nonrecurring charge per circuit termination except in the following conditions:

- when converting standard arrangement circuit terminations to a TPP.

(10) Changes in Length of a TPP Period

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

- no credit will be given for the new payment period for payments made under the original TPP arrangement
- NRCs will not be reapplied for existing service(s)
- if the new TPP period is shorter in length than the time remaining under the existing TPP, the change to the new TPP period constitutes a disconnect of the existing TPP service and termination liability charges will apply
- the rates for the new period will be the rates currently in effect at the time of the change.

[1] Effective May 16, 2019 the DS1 Term Payment Plan (TPP) will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(G) DS1 Term Payment Plan (TPP) [1] (Cont'd)(11) Renewal Options

At the expiration of a TPP period, the customer may select a new TPP period or convert to a month to month payment plan. If the customer fails to make this selection, the Telephone Company will notify the customer and continue one additional month of TPP billing. If the customer does not select a new payment plan within 30 days from the expiration date, billing will automatically convert to the DS1 month to month payment plan.

At the expiration of the TPP period, if the customer renews at the DS1 quantity in service at the end of his previous TPP, or a greater quantity, and makes no change in the selected states, then any penalties that may need to be assessed at the first anniversary of the renewal period will be assessed as set forth in 7.2.1(G)(8)(b). The rates for the renewal period will be the rates in effect at the time of the renewal.

(12) Upgrade to Higher Speed Service

The customer may upgrade service to a higher speed during a TPP period. The upgraded service will be subject to all appropriate NRCs.

If both of the following conditions exist, the commitment level will be decreased by the number of TPP DS1 circuit terminations that are upgraded to a higher speed service.

- The customer must notify the Telephone Company in writing in addition to the ASR.
- The higher speed service period must be longer in length than the time remaining under the TPP.

[1] Effective May 16, 2019 the DS1 Term Payment Plan (TPP) will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(H) Optional Payment Plan (OPP) - GRANDFATHERED

Effective May 16, 2019 the following Optional Payment Plan (OPP) will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

(1) General

- (a) The terms and conditions specified herein are applicable to Fractional T1 Service (FT1).
- (b) Only the Circuit Termination rate element is available under an OPP. All other associated rate elements or additional features are available at the minimum month-to-month tariffed rates and regulations.
- (c) FT1 Circuit Termination rates will not be greater than minimum month-to-month tariffed rates and regulations.
- (d) 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.
- (e) Payment periods of one year, three year, and five year are available to all customers at the applicable rates set forth in 7.11.5(A) regardless of when they subscribe to an OPP arrangement.
- (f) The customer must designate on the ASR the payment period for the OPP.
- (g) Inside moves, provided in accordance with 7.2.1(D)(4), will not incur termination liability charges.
- (h) Outside moves, provided in accordance with 7.2.1(D)(4)(b), 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.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(H) Optional Payment Plan (OPP) [1] (Cont'd)(2) 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 new disconnect of the existing OPP service and termination liability charges apply.

(3) Renewal Options

- (a) 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.
- (b) 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.
- (c) 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.

[1] Effective May 16, 2019 the Optional Payment Plan (OPP) will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(H) Optional Payment Plan (OPP) [1] (Cont'd)(4) 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 received disconnect notification or until the requested disconnect date, whichever period is longer.

(5) Upgrade to Higher Speed Service

Customers may elect to upgrade service to a higher speed during an OPP period, subject to the following conditions:

- The upgraded 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 7.2.1(D)(3)(b).
- 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.

[1] Effective May 16, 2019 the Optional Payment Plan (OPP) will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications and Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(H) Optional Payment Plan (OPP) [1] (Cont'd)(6) 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.

Two Year TVP - 50% of any remaining portion of the first year's recurring charges. In addition, for any remaining portion of the second year, the customer will be liable for 5% of the total monthly recurring charges in that period.

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.

(7) 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.

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 changes service will be subject to all appropriate nonrecurring charges.
- Termination liability charges will no apply as long as the changed service remains connected at the same point of termination(s) or meets the requirements of 7.2.1(D)(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.

[1] Effective May 16, 2019 the Optional Payment Plan (OPP) will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.2 Minimum Periods

The minimum service period for all services except part-time Program Audio services and High Capacity DS3 services is one month. The minimum service period for part-time Program Audio Services is one day even though the service will be provided only for the duration of the event specified on the order (e.g., one-half hour, two hours, five hours, etc.). Effective May 16, 2019, the minimum period for High Capacity DS3 Service is one month. Prior to May 16, 2019 the minimum period for High Capacity DS3 Service was that period requested by the customer as set forth in Section 7.2.6 (B) following.

Additional Minimum Periods on other services, Minimum period charges and associated termination liability charges are described in Section 5 preceding.

7.2.3 Application of Daily and Monthly Rates(A) Daily Rates

Daily rates are recurring rates that apply to each 24 hour period or fraction thereof that a Program Audio Special Access Service provided for part-time or occasional use. For purposes of applying daily rates, the 24 hour period is not limited to a calendar day.

Part-time Program Audio ordered on one Access Service Request and provided within a consecutive 30 day period will be charged the daily rate, not to exceed an amount equal to the monthly rate. For each subsequent day or part day, a charge equal to 1/30th of the monthly rate shall apply.

(B) Monthly Rates

Monthly rates are flat recurring rates 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.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.4 Facility Hubs and Multiplexing

A customer has the option of ordering Voice Grade facilities or High Capacity facilities (i.e., Group, Supergroup, Mastergroup, DS1, DS1C, DS2, DS3 or DS4) to a facility hub for multiplexing to individual services of a lower capacity or bandwidth (e.g., Voice, Program Audio, etc.). Additionally, the customer may specify optional features for the individual circuits derived from the facility to further tailor the circuit to meet specific communications requirements.

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 circuits

A hub is a Telephone Company designated wire center at which multiplexing functions are performed.

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 placing an Access Service Request the customer will specify the desired hub. The National Exchange Carrier Association Tariff FCC No. 4 identifies serving wire centers, hub locations and the type of multiplexing functions available.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.4 Facility Hubs and Multiplexing (Cont'd)

Point to point services may be provided on circuits of these facilities to a hub. The transmission performance for the point to point service provided between the customer designated premises will be that of the lower capacity or bit rate.

The Telephone Company will commence billing the monthly rate for the facility to the hub on the date specified by the customer on the Access Service Request. The customer will be billed for a High Capacity or Voice Grade Circuit Termination, Circuit Mileage, Special Access Cross Connect and the multiplexer for the service at the time the facility is installed. Individual services utilizing these facilities may be installed coincident with the installation of the facility to the hub or may be ordered and/or installed at a later date, at the option of the customer. Individual service rates (by service type) will apply for a Circuit Termination and additional Circuit Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading multiplexing occurs when a high capacity circuit is de-multiplexed to provide circuits with a lesser capacity and one of the lesser capacity circuits is further de-multiplexed. When cascading multiplexing is performed, whether in the same or a different hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different hubbing locations, Circuit Mileage charges also apply between the hubs.

Although not requiring multiplexing, the Telephone Company will designate certain hubs for Program Audio Services. Full-time service will be provided between a customer designated premises and a hub and billed accordingly at the monthly rates set forth in 7.6.5 for a Circuit Termination, and Circuit Mileage and Optional Features and Functions as applicable. The customer may order part-time and occasional Program Audio services as needed between the hub and a second customer designated premises. The rate elements required to provide the part-time or occasional service (i.e., Circuit Termination, and Circuit Mileage and Optional Features as applicable) will be billed at daily rates for the duration of the service requested.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.5 Shared Use Analog and Digital High Capacity Services

Shared use occurs when Special Access Service and Switched Access Service are provided over the same Special Access facility through a common interface. The Special Access monthly rate for the Channel Termination, Channel Mileage, if applicable, and multiplexer will apply, regardless of whether any individual channels of the Shared Special Access facility are used for Special Access Service, Switched Access Service, or any other type of service. The practice known as "ratcheting" (to apply non-Special Access rates on a proportional basis) shall not apply in any circumstance.

(N)

(N)

(D)

(D)

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.6 DS3 High Capacity

Effective May 16, 2019 the following DS3 High Capacity 1, 3, 5 and 7 Year Rate Plans will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

- (A) A DS3 (44.736 Mbps) High Capacity Circuit Termination may be ordered as an Individual, 3-System or 12-System. A Circuit Termination may be ordered with an electrical or optical interface.

DS3 Circuit Terminations are non-distance sensitive and are provided on a protected basis.

Individual System

An Individual System is a single DS3 between a CDL and the serving wire center. The appropriate NRC is applied per Circuit Termination.

Transport rate elements are applied per Circuit Termination when transport between offices is required. In instances when a Circuit Termination is ordered to a second CDL in conjunction with an Individual System Circuit Termination and Transport between offices is required Transport rate elements are applied per circuit.

3-System

The 3-System allows the same customer, between the same CDL and the serving wire center, to order additional DS3 Circuit Terminations, up to a maximum of two. Additional Circuit Terminations may only be added with the same interface, electrical or optical, as the First System. The appropriate NRC is applied per Circuit Termination.

Transport rate elements are applied per Circuit Termination when transport between offices is required. In instances when a Circuit Termination is ordered to a second CDL in conjunction with a 3-System Circuit Termination and Transport between offices is required Transport rate elements are applied per circuit.

12-System

The 12-System allows the same customer, between the same CDL and the serving wire center, to order additional DS3 Circuit Terminations, with a maximum of eleven. Additional Circuit Terminations may only be added with the same interface, electrical or optical, as the First System. The appropriate NRC is applied per Circuit Termination.

Transport rate elements are applied per Circuit Termination when transport between offices is required. In instances when a Circuit Termination is ordered to a second CDL in conjunction with a 12-System Circuit Termination and Transport between offices is required Transport rate elements are applied per circuit in accordance with Section 7.2.1(B).

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.6 DS3 High Capacity (Cont'd)(B) Minimum Service Periods (Cont'd)

Effective May 16, 2019 the minimum period for DS3 service is one month. Prior to May 16, 2019, DS3 service was offered under four minimum service periods, each with different rate levels. The minimum service periods are 1, 3, 5 and 7 years. The customer must specify the minimum service period at the time the service is ordered. Each DS3 service within a three/twelve capacity system can have a different minimum service period. Each DS3 Circuit Termination of a two-point DS3 service must have the same minimum service period.

The customer may select a longer minimum service period at any time, without penalty or application of nonrecurring charges, to obtain the lower recurring rates associated with a longer minimum service period. When the customer selects this option, the customer will receive full credit for the amount of time the service was provided under the shorter minimum service period. For example, if a customer, who initially ordered DS3 service under a one-year minimum service period, after six months decides to select the three year minimum service period, the customer will have a remaining obligation period of 30 months. The new recurring charges will apply subsequent to the effective date of the new minimum service period.

(C) Expiration of Service Periods

Effective May 16, 2019 term renewals will not be offered on the DS3 High Capacity 1, 3, 5 and 7 Year Rate Plans. Upon expiration of the current term, rates will revert to month-to-month. Prior to May 16, 2019, at the expiration of a service commitment period, the customer may select a new DS3 commitment period. If the customer does not select a new minimum service period within 60 days from the expiration date, billing will remain at the current service period and a new DS3 service period will begin based on the previously effective service period. All terms and conditions, including subsequent Termination Liabilities will apply to the new DS3 Period.

Customers with expired service periods for the Individual System, Three System and Unlimited System DS3s, prior to the effective date of this tariff offering will have up to 180 days to select a new commitment service period. If the customer does not select a new service period within 180 days of the effective date of this tariff, billing will remain at the current service period and a new DS3 minimum service period will begin based on the last service period. The beginning date of the new service period will be the date immediately following the expiration date of the expired service period. This does not apply to the grandfathered DS3 Group System service offerings.

(D) Discontinuance Without Liability - DS3 Minimum Service Period

Rates for DS3 service may vary during the minimum service period; however, should the recurring charges for a customer's DS3 service increase, in aggregate, by more than 10% from the original recurring charges during the minimum service period, the customer may, at their option, terminate the DS3 service without penalty or liability.

[1] Effective May 16, 2019 DS3 High Capacity 1, 3, 5 and 7 Year Term Plans will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.6 DS3 High Capacity [1] (Cont'd)(E) Discontinuance With Liability - DS3 Minimum Service Period

When a DS3 service is discontinued prior to the end of the minimum service period, the customer will be liable for a percentage of the total monthly charges for the remaining portion of the minimum service period. This charge will be based on the rates in effect at the time of disconnect. The customer's total liability is dependant upon the number of months remaining within the year that the service is discontinued times the liability rate for that year plus the total monthly charges for each annual period remaining in the minimum service period times the applicable liability rate. The liability rates for each year of the minimum service period are as follows:

<u>Year In Which Service Is Discontinued</u>	<u>Liability Rate</u>
1	45%
2	30%
3	25%
4	20%
5	15%
6	10%
7	5%

For example, if a customer with a seven year minimum service period discontinues DS3 service after six months within the 4th year, the customer will be liable for 20% of the total monthly charges for six months, 15% of the total monthly charges for the 5th year, 10% of the total monthly charges for the 6th year and 5% of the total monthly charges for the 7th year.

[1] Effective May 16, 2019 DS3 High Capacity 1, 3, 5 and 7 Year Term Plans will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.6 DS3 High Capacity [1] (Cont'd)(F) Notification of Discontinuance

Notice of discontinuance must be given by the customer at least thirty days prior to actual discontinuance. Monthly charges will apply for a period of thirty days from the date the Telephone Company receives discontinuance notification or until the requested discontinuance date, whichever period is longer.

(G) Upgrade to a Larger Capacity System

At the customer's option, upgrades from a smaller capacity system to a larger capacity system will be allowed. All appropriate NRCs for the larger capacity system will apply. Credit will not be given for any number of months the original system was maintained. A new minimum service period will be required for the larger capacity system.

[1] Effective May 16, 2019 DS3 High Capacity 1, 3, 5 and 7 Year Term Plans will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.6 DS3 High Capacity [1] (Cont'd)(H) Downgrade to a Smaller Capacity System

Downgrades from a larger capacity system to a smaller capacity system will not be allowed without the full assessment of the liabilities described in (E) preceding for the original larger system, plus the full application of all charges for the smaller system. Credit will not be given for any number of months the original system was maintained. A new minimum service period will be required for the smaller capacity system.

(I) Service Disconnect

When a customer requests the disconnect of a DS3 service in the three/twelve capacity system, the disconnect steps are applied on a last in, first out basis. When only the First DS3 service exists on a three/twelve capacity system, that service will be disconnected.

[1] Effective May 16, 2019 DS3 High Capacity 1, 3, 5 and 7 Year Term Plans will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Categories, Applications, and Regulations (Cont'd)7.2.7 MetroLAN Circuit Mileage(A) Description

MetroLAN Circuit Mileage provides DS1 facilities between two or more serving wire centers located on a Telephone Company fiber optic ring. MetroLAN Circuit Mileage is provided at a flat-rate per month charge per DS1 facility, per LAN traversed regardless of the number of miles the circuit is routed on the fiber ring.

(B) Conversion of Existing DS1 Circuit Mileage

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

(C) Discontinuance of Service

If a DS1 Circuit Termination is discontinued, the MetroLAN portion of the circuit will also be discontinued.

MetroLAN Circuit Mileage may be converted to standard special access Circuit Mileage 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 Circuit Mileage 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. MetroLAN is provided between serving wire centers located on the same fiber optic ring within the following Telephone Company metropolitan serving areas:

JurisdictionMetropolitan Serving Area

Missouri

Branson

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7. Special Access Service (Cont'd)

7.3 Reserved For Future Use

7.4 Reserved For Future Use



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup>7.5.1 Basic Circuit Description

A Voice Grade Circuit is a circuit which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Effective 2-wire and 4-wire circuits are available as an Optional Feature and Function. Voice Grade circuits are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

Voice Grade Service may be ordered in conjunction with Switched Access services as set forth in Section 6.3.2 of the BRIGHTSPEED LOCAL OPERATING COMPANIES Tariff F.C.C. No. 3 to provide access for a customer's communications service (e.g., WATS, 800, 888, or WATS-type service). When the customer orders the Switched Access Interface Arrangement, Voice Grade Circuits provide voice frequency transmission capability between an end user premises and a WATS Serving Office (WSO). All applicable Special Access rates and charges apply (including Optional Features and Functions charges). Technical Specifications and Optional Features and Functions available with this arrangement are indicated under Package VG-SI in 7.5.4 following.

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup> (Cont'd)7.5.2 Technical Specifications Packages

Parameter	Package VG-													
	C*	1	2	3	4	5	6	7	8	9	10	11	12	SI
Attenuation														
Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Message Noise	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Echo Control	X	X	X	X	X	X	X	X	X	X	X			
Envelope Delay														
Distortion	X					X	X	X	X	X	X	X	X	X
Frequency Shift	X					X	X	X	X	X	X	X	X	X
Impulse Noise	X				X	X	X	X	X	X	X	X	X	X
Intermodulation														
Distortion	X					X	X	X	X	X	X	X	X	X
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain														
Hits, and Dropouts	X													
Phase Jitter	X					X	X	X	X	X	X	X	X	X
Return Loss														X
Signal-to-C														
Message Noise					X									
Signal-to-C														
Notch Noise	X				X	X	X	X	X	X	X	X	X	X

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

\* The desired parameters are selected by the customer from the list of available parameters.

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup> (Cont'd)7.5.3 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 9 following.

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

- (a) Voice Bridging (two-wire or four-wire)
- (b) Data Bridging (two-wire or four-wire)
- (c) Telephoto Bridging (two-wire and four-wire)
- (d) Dataphone Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports
- (e) Telemetry and Alarm Bridging, Split Band-Active Bridging, Passive Bridging, Summation-Active Bridging

(2) Reserved for Future Use(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.

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.

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup> (Cont'd)7.5.4 Optional Features and Functions (Cont'd)(3) Conditioning (Cont'd)(a) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are delineated in Technical Reference TR-NPL-000335.

(b) Improved C-Type Conditioning

Improved C-Type Conditioning options are provided in conjunction with C-Type Conditioning at the rates set forth in Section 7.5.5 following. The C-Type Conditioning rate shall apply only once regardless if one or both of the following Improved Options are ordered.

(i) Improved Attenuation Distortion

Improved Attenuation Distortion upgrades the frequency versus loss limits of the channel. The technical specifications for Improved Attenuation Distortion are delineated in Technical Reference TR-NPL-000335. This option is provided in conjunction with C-Type conditioning.

(ii) Improved Envelope Delay Distortion

Improved Envelope Delay Distortion upgrades the frequency versus delay response limits of the channel. The technical specifications for Improved Envelope Delay Distortion are delineated in Technical Reference TR-NPL-000335. This option is provided in conjunction with C-Type conditioning.

(c) Sealing Current

Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type channel interfaces.

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup> (Cont'd)7.5.4 Optional Features and Functions (Cont'd)(4) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. This level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference TR-NPL-000335.

(5) Improved Return Loss

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

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

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup> (Cont'd)7.5.4 Optional Features and Functions (Cont'd)(6) Data Capability

Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or multipoint services.

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

- Signal to C-Notched Noise Ratio is greater than or equal to 32dB Intermodulation distortion
- Signal to second order modulation products (R2) is greater than or equal to 38dB
- Signal to third order modulation products (R3) is greater than or equal to 42 dB

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

(7) Telephoto Capability

Telephoto Capability provides transmission characteristics suitable for telephotographic communications. Specifically, Telephoto Capability is provided for the control of attenuation distortion and envelope delay distortion of telephotographic services. The attenuation distortion and envelope delay distortion parameters for Telephoto Capability are:

Attenuation Distortion  
(1004Hz Reference)

<u>Frequency Range (Hz)</u>	<u>Variation (dB)</u>
500-3000	-0.5 to +1.5
300-3200	-1.0 to +2.5

Envelope Delay Distortion

<u>Frequency Range (Hz)</u>	<u>Variation (mcs)</u>
1000-2600	110
800-2800	180

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup> (Cont'd)7.5.4 Optional Features and Functions (Cont'd)(8) Signaling Capability

Signaling Capability provides for the ability to transmit signals from one customer premises to another customer premises on the same service.

(9) Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service.

(10) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access circuits. The arrangement can be utilized to transfer a leg of a Special Access Service to another circuit 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 circuit, if required, is not included as part of the option.

(11) Four-Wire/Two-Wire Conversions

The term "Effective 2-Wire" denotes a condition which permits the simultaneous transmission in both directions over a channel, but it is not possible to insure independent information transmission in both directions. Effective 2-wire channels may be terminated with 2-wire or 4-wire interfaces.

The term "Effective 4-Wire" denotes a condition which permits the simultaneous independent transmission of information in both directions over a channel. The method of implementing effective 4-wire transmission is at the discretion of the Telephone Company (physical, time domain, frequency-domain separation or echo cancellation techniques). Effective 4-wire channels may be terminated with a 2-wire interface at the customer's premises. However, when terminated 2-wire, simultaneous independent transmission cannot be supported because the two wire interface combines the transmission paths into a single path.

When a customer requests that an effective four-wire circuit be terminated with a two-wire circuit interface at the customer designated premises, a four-wire to two-wire conversion is required. The customer will be charged the 4-wire Circuit Termination rate when an effective four-wire is specified in the customer's order. The rate for the conversion is included as part of the basic Circuit Termination rate.

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup> (Cont'd)7.5.4 Optional Features and Functions (Cont'd)

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

## Available with Technical

	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>Package VG-</u>										<u>SI</u>
C-Type Conditioning Central Office	X						X	X	X	X	X	X				
Bridging Capability Central Office	X		X			X	X				X	X	X			
Multiplexing	X						X									
Customer Specified Premises Receive Level	X		X	X				X	X	X						
Data Capability	X						X	X			X					
Improved Return Loss																
-For Effective Four-Wire Transmission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-For Effective Two-Wire Transmission	X		X	X				X								X
Sealing Current Conditioning	X						X									
Selective Signaling Arrangement	X		X			X	X				X	X	X			
Signaling Capability	X	X	X	X				X	X	X						#
Transfer Arrangement		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

# Signaling is provided in conjunction with Switched Access as set forth in 6.3.2(T) of the BRIGHTSPEED LOCAL OPERATING COMPANIES Tariff F.C.C. No. 3.

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.



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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup>(Cont'd)7.5.5 Rates and Charges

- (A) Circuit Termination  
- Per Point of Termination

<u>Jurisdiction</u>	<u>2-Wire Monthly Rates</u>	<u>2-Wire Nonrecurring Charges</u>
Alabama	\$93.00	\$200.00
Missouri	93.00	200.00

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup> (Cont'd)7.5.5 Rates and Charges (Cont'd)(A) Circuit Termination (Cont'd)  
- Per Point of Termination

<u>Jurisdiction</u>	<u>4-Wire Monthly Rates</u>	<u>4-Wire Nonrecurring Charges</u>
Alabama	\$135.00	\$200.00
Missouri	\$135.00	200.00

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup> (Cont'd)7.5.5 Rates and Charges (Cont'd)

## (B) Circuit Mileage

<u>Jurisdiction</u>	Monthly Rates <u>Fixed</u>	Monthly Rates <u>Per Mile</u>
Alabama	\$72.00	\$7.90
Missouri	72.00	7.90

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup> (Cont'd)7.5.5 Rates and Charges (Cont'd)

## (C) Optional Features and Functions

Rates and charges for the Optional Features and Functions of Voice Grade Service listed in this section apply to all jurisdictions of the Issuing Carriers listed on Title Page 2.

## (1) Bridging

	Alabama Monthly Rates	Missouri Monthly Rates	Nonrecurring Charge
(a) <u>Voice Bridging</u>			
- Per port			
- Two-Wire	\$7.96	\$7.96	None
- Four-Wire	7.96	7.96	None
(b) <u>Data Bridging</u>			
- Per port			
- Two-Wire	\$7.96	\$7.96	None
- Four-Wire	7.96	7.96	None
(c) <u>Telephoto Bridging</u>			
- Per port			
- Two-Wire	\$7.96	\$7.96	None
- Four-Wire	7.92	7.92	None
(d) <u>DATAPHONE Select-A-Station Bridging</u>			
Sequential Arranged Ports Per Circuit Connected			
-2-Wire	21.23	21.23	None
-4-Wire	112.80	112.80	None
Addressable Arranged Ports Per Circuit Connected			
-2-Wire	22.76	22.76	None
-4-Wire	115.88	115.88	None

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup> (Cont'd)7.5.5 Rates and Charges (Cont'd)

	Monthly Rates	Nonrecurring Charge
(C) Optional Features and Functions (Cont'd)		
(1) Bridging (Cont'd)		
(e) <u>Telemetry and Alarm Bridging</u>		
Active Bridging		
Circuit Connections		
Per Circuit Connected		
- Split Band	\$8.04	None
- Summation	1.37	None
Passive Bridging		
Circuit Connections		
Per Circuit Connected	0.20	None
(2) Conditioning		
Per Point of Termination		
(a) C-Type	11.01	None
(b) Improved C-Type		
Conditioning Options		
- Improved Attenuation		
Distortion	*None	
- Improved Envelope		
Delay Distortion	*None	
(c) Sealing Current	None	None
(3) Improved Return Loss		
for Effective Four-Wire		
Transmission		
- Per Point of Termination		
- Two-Wire	3.71	None
- Four-Wire	3.71	None
(4) Customer Specified		
Receive Level		
- Per Two-Wire Point of		
Termination	None	None

\* Applied at the same rate as C-Type Conditioning regardless if one or both Improved C-Type options are ordered.

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup> (Cont'd)7.5.5 Rates and Charges (Cont'd)

	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
(C) Optional Features and Functions (Cont'd)		
(5) Reserved for Future Use		
(6) Data Capability - Per Point of Termination	1.98	0.00
(7) Telephoto Capability - Per Point of Termination	2.81	0.00
(8) Signaling Capability - Per Point of Termination	16.34	None

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Voice Grade Service <sup>[1]</sup> (Cont'd)7.5.5 Rates and Charges (Cont'd)

	<u>Monthly Rates</u>	<u>Nonrecurring Charge</u>
(C) Optional Features and Functions (Cont'd)		
(9) Selective Signaling Arrangement - Per Arrangement	\$32.11	None
(10) Transfer Arrangement (Dial Up**)		
- Per Four Port Arrangement, including control circuit termination***	3.00	None
- Per Five Port Arrangement, including control circuit termination***	6.85	None

<sup>[1]</sup> Effective February 1, 2020 Voice Grade Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

\*\* The Dial-up option requires the customer to purchase the Controller Arrangement from BRIGHTSPEED LOCAL OPERATING COMPANIES Tariff F.C.C. No. 3 Section 8-12(A)

\*\*\* An additional Circuit Termination charge will apply whenever a spare circuit is configured as a leg to the customer's premises. Additional circuit mileage charges will apply when the transfer arrangement is not located in the customer premises serving wire center.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Program Audio Service <sup>[1]</sup>7.6.1 Basic Circuit Description

A Program Audio circuit is a circuit measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. The nominal frequency bandwidths are from 50 to 15000 Hz, from 200 to 3500 Hz, from 100 to 5000 Hz or from 50 to 8000 Hz. Only one-way transmission is provided. Program Audio circuits are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

7.6.2 Technical Specifications Packages

<u>Parameter</u>	<u>Package AP-</u>				
	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Actual Measured Loss	X	X	X	X	X
Amplitude Tracking	X				
Crosstalk	X	X	X	X	X
Distortion Tracking	X				
Gain/Frequency					
Distortion	X	X	X	X	X
Group Delay	X				
Noise	X	X	X	X	X
Phase Tracking	X				
Short Term Gain Stability	X				
Short Term Loss	X				
Total Distortion	X	X	X	X	X

The technical specifications are delineated in Technical Reference PUB TR-NPL-000337.

\* The desired parameters are selected by the customer from the list available parameters.

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.3 Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Program Audio circuit:

<u>CI</u>	<u>Bandwidth</u>
PG-1	Nominal frequency from 50 to 15000 Hz
PG-3	Nominal frequency from 200 to 3500 Hz
PG-5	Nominal frequency from 100 to 5000 Hz
PG-8	Nominal frequency from 50 to 8000 Hz

Compatible channel interfaces are set forth in 9 following.

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

Distribution Amplifier

(2) Gain Conditioning

Control of 1004 Hz AML at initiation of service to  $\text{OdB} \pm 0.5 \text{ dB}$ .

(3) Stereo

Provision of a pair of gain/phase equalized channels for stereo applications. (Additional AP channel must be ordered separately).

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

	<u>Available with Technical Specifications Package AP-</u>				
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Central Office Bridging Capability	X	X	X	X	X
Gain Conditioning	X	X	X	X	X
Stereo	X	X			

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Services (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.5 Rates and Charges

- (A) Circuit Termination  
- Per Point of Termination

<u>200-3500 Hz</u>			
<u>Jurisdiction</u>	<u>Monthly Rates</u>	<u>Daily Rates</u>	<u>Nonrecurring Charge</u>
Alabama	\$34.94	\$3.49	\$200.00
Missouri	25.72	2.68	200.00

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Services (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.5 Rates and Charges (Cont'd)(A) Circuit Termination (Cont'd)  
- Per Point of Termination100-5000 Hz

<u>Jurisdiction</u>	<u>Monthly Rates</u>	<u>Daily Rates</u>	<u>Nonrecurring Charge</u>
Alabama	\$34.94	\$3.49	\$200.00
Missouri	25.46	2.68	200.00

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Services (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.5 Rates and Charges (Cont'd)(A) Circuit Termination (Cont'd)  
- Per Point of Termination50-8000 Hz

<u>Jurisdiction</u>	<u>Monthly Rates</u>	<u>Daily Rates</u>	<u>Nonrecurring Charge</u>
Alabama	\$34.94	\$3.49	\$200.00
Missouri	25.46	2.68	200.00

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Services (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.5 Rates and Charges (Cont'd)(A) Circuit Termination (Cont'd)  
- Per Point of Termination50-15000 Hz

<u>Jurisdiction</u>	<u>Monthly Rates</u>	<u>Daily Rates</u>	<u>Nonrecurring Charge</u>
Alabama	\$34.94	\$3.49	\$200.00
Missouri	25.46	2.68	200.00

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Services (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.5 Rates and Charges (Cont'd)

## (B) Circuit Mileage

200-3500 Hz

<u>Jurisdiction</u>	Monthly Rate <u>Fixed</u>	Monthly Rate <u>Per Mile</u>
Alabama	\$37.29	\$3.62
Missouri	25.72	2.01

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Services (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.5 Rates and Charges (Cont'd)

## (B) Circuit Mileage (Cont'd)

<u>Jurisdiction</u>	<u>200-3500 Hz</u>	
	<u>Daily Rate Fixed</u>	<u>Daily Rate Per Mile</u>
Alabama	\$3.92	.36
Missouri	2.74	.21

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Services (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.5 Rates and Charges (Cont'd)

## (B) Circuit Mileage (Cont'd)

<u>Jurisdiction</u>	<u>100-5000 Hz</u>	
	<u>Monthly Rate Fixed</u>	<u>Monthly Rate Per Mile</u>
Alabama	\$37.29	\$3.62
Missouri	26.00	2.01

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.



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## ACCESS SERVICE

7. Special Access Services (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.5 Rates and Charges (Cont'd)(B) Circuit Mileage (Cont'd)

<u>Jurisdiction</u>	<u>100-5000 Hz</u>	
	<u>Daily Rate Fixed</u>	<u>Daily Rate Per Mile</u>
Alabama	\$3.92	\$.36
Missouri	2.74	.21

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Services (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.5 Rates and Charges (Cont'd)(B) Circuit Mileage (Cont'd)50-8000 Hz

<u>Jurisdiction</u>	Monthly Rate <u>Fixed</u>	Monthly Rate <u>Per Mile</u>
Alabama	\$37.29	\$3.62
Missouri	26.00	2.01

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Services (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.5 Rates and Charges (Cont'd)(B) Circuit Mileage (Cont'd)50-8000 Hz

<u>Jurisdiction</u>	<u>Daily Rate Fixed</u>	<u>Daily Rate Per Mile</u>
Alabama	\$3.92	\$.36
Missouri	2.74	.21

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Services (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.5 Rates and Charges (Cont'd)

## (B) Circuit Mileage (Cont'd)

50-15000 Hz

<u>Jurisdiction</u>	Monthly Rate <u>Fixed</u>	Monthly Rate <u>Per Mile</u>
Alabama	\$37.29	\$3.62
Missouri	26.00	2.01

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Services (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.5 Rates and Charges (Cont'd)(B) Circuit Mileage (Cont'd)

<u>Jurisdiction</u>	<u>50-15000 Hz</u>	
	<u>Daily Rate Fixed</u>	<u>Daily Rate Per Mile</u>
Alabama	\$3.92	\$.36
Missouri	2.74	.21

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Services (Cont'd)7.6 Program Audio Service <sup>[1]</sup> (Cont'd)7.6.5 Rates And Charges (Cont'd)(C) Optional Features and Functions

Rates and charges for the Optional Features and Functions of Program Audio Service listed in this section apply to all jurisdictions of the Issuing Carriers listed on Title Page 2.

		<u>Monthly Fixed</u>	<u>Daily Rates</u>	<u>Nonrecurring Charges</u>	
				<u>Monthly</u>	<u>Daily</u>
(1)	Bridging, Distribution Amplifier				
	- Per Port	\$1.00	\$.10	None	None
(2)	Gain Conditioning				
	- Per Service	1.00	.10	None	None
(3)	Stereo				
	- Per service	None	None	None	None

7.7 Reserved for Future Use

7.8 Reserved for Future Use

7.9 Reserved for Future Use

<sup>[1]</sup> Effective February 1, 2020 Program Audio Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.10 Digital Data Service <sup>[1]</sup>7.10.1 Basic Circuit Description

A Digital Data circuit is a circuit for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56, or 64 Kbps. The actual bit rate is a function of the channel interface selected by the customer. The circuit provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data circuits are only available via Telephone Company designated hubs and are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

The customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data circuit at the customer premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

7.10.2 Technical Specifications Packages

<u>Parameter</u>	<u>Package DA</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Error-Free Seconds	X	X	X	X

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

Voltages which are compatible with Digital Data Service are delineated in Technical Reference PUB TR-NPL-000341.

<sup>[1]</sup> Effective February 1, 2020 Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.10 Digital Data Service <sup>[1]</sup> (Cont'd)7.10.3 Channel Interfaces

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

<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-565	56 Kbps
DU-64	64 Kbps

Compatible channel interfaces are set forth in 9. following.

7.10.4 Optional Features and Functions(1) Central Office Bridging Capability(2) Transfer Arrangement

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

<sup>[1]</sup> Effective February 1, 2020 Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.



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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.10 Digital Data Service <sup>[1]</sup> (Cont'd)7.10.5 Rates and Charges

- (A) Circuit Termination  
- Per Point of Termination

<u>Jurisdiction</u>	<u>2.4, 4.8 &amp; 9.6 Kbps</u>		<u>19.2 Kbps</u>	
	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
Alabama	\$235.00	\$194.30	\$235.00	\$194.30
Missouri	235.00	195.00	235.00	195.00

<sup>[1]</sup> Effective February 1, 2020 Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.10 Digital Data Service <sup>[1]</sup> (Cont'd)7.10.5 Rates and Charges (Cont'd)(A) Circuit Termination (Cont'd)  
- Per Point of Termination

<u>Jurisdiction</u>	<u>56.0 Kbps</u>		<u>64 Kbps</u>	
	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
Alabama	\$235.00	\$194.30	\$235.00	\$194.30
Missouri	235.00	195.00	235.00	195.00

<sup>[1]</sup> Effective February 1, 2020 Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.10 Digital Data Service <sup>[1]</sup> (Cont'd)7.10.5 Rates and Charges (Cont'd)

## (B) Circuit Mileage

<u>Jurisdiction</u>	<u>2.4, 4.8, &amp; 9.6 Kbps</u>		<u>19.2 Kbps</u>	
	<u>Monthly Rate Fixed</u>	<u>Per Mile</u>	<u>Monthly Rate Fixed</u>	<u>Per Mile</u>
Alabama	\$124.00	\$ 8.40	\$124.00	\$8.40
Missouri	124.00	8.40	124.00	8.40

<sup>[1]</sup> Effective February 1, 2020 Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.10 Digital Data Service <sup>[1]</sup> (Cont'd)7.10.5 Rates and Charges (Cont'd)(B) Circuit Mileage (Cont'd)

<u>Jurisdiction</u>	<u>56.0 Kbps</u> Monthly Rate		<u>64 Kbps</u> Monthly Rate	
	<u>Fixed</u>	<u>Per Mile</u>	<u>Fixed</u>	<u>Per Mile</u>
Alabama	\$124.00	\$8.40	\$124.00	\$8.40
Missouri	124.00	8.40	124.00	8.40

<sup>[1]</sup> Effective February 1, 2020 Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.10 Digital Data Service <sup>[1]</sup> (Cont'd)7.10.5 Rates and Charges (Cont'd)

## (C) Optional Features and Functions

Monthly Rates and Nonrecurring Charges for the Optional Features and Functions of Digital Data Service listed in this section apply to all jurisdictions of the Issuing Carriers listed on Title Page 2.

<u>Optional Features and Functions</u>	<u>Alabama Monthly Rates</u>	<u>Missouri Monthly Rates</u>	<u>Nonrecurring Charges</u>
(1) Bridging - Per Port	\$10.73	\$10.73	None
(2) Loop Transfer Arrangement (Dial-Up**) - Per Four-Port Arrangement***	5.96	5.96	None

\*\* The Dial-Up option requires the customer to purchase the Controller Arrangement from BRIGHTSPEED LOCAL OPERATING COMPANIES Tariff F.C.C. No 3 Section 8.12(A).

\*\*\* An additional Circuit Termination charge will apply whenever a spare circuit is configured as a leg to the customer's premises. Additional Circuit Mileage charges will also apply when the transfer arrangement is not located in the customer premises serving wire center.

<sup>[1]</sup> Effective February 1, 2020 Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service7.11.1 Basic Circuit Description

A High Capacity circuit is a circuit for the transmission of nominal 64.0 kbps or 1.544, 3.152, 6.312, 44.736, or 274.176 Mbps isochronous serial data. The actual bit rate is a function of the channel interface selected by the customer. High Capacity circuits are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

The customer may provide the Network Channel Terminating Equipment associated with the High Capacity circuit at the customer's premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

7.11.2 Technical Specifications Packages

<u>Parameter</u>	<u>Package HC</u>					
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Error-Free Seconds		X				

A circuit with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

- \* Available only as a circuit of a 1.544 Mbps facility to a Telephone Company Digital Data hub or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 kbps circuits of two 1.544 Mbps facilities to a Digital Data hub(s). The customer must provide system and channel assignment data.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.3 Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a High Capacity circuit:

<u>CI</u>	<u>Bit Rate</u>
DS-15*	1.544 Mbps (DS1)
DS-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DSIC)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

Compatible channel interfaces are set forth in 9.3.5 following.

7.11.4 Optional Features and Functions(A) 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 circuit line when a working line fails. The spare circuit 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.

(B) Transfer Arrangement

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

A 64.0 kbps circuit is available as a circuit(s) of a 1.544 Mbps facility to a Telephone Company hub.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.4 Optional Features and Functions (Cont'd)(C) Central Office Multiplexing(1) DS4 to DS1

An arrangement that converts a 274.176 Mbps circuit to 168 DS1 circuits using digital time division multiplexing.

(2) DS3 to DS1

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

(3) DS2 to DS1

An arrangement that converts a 6.312 Mbps circuit to four DS1 circuits using digital time division multiplexing.

(4) DS1C to DS1

An arrangement that converts a 3.152 Mbps circuit to two DS1 circuits using digital time division multiplexing.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.4 Optional Features and Functions (Cont'd)(E) Central Office Multiplexing(5) DS1 to Voice

An arrangement that converts a 1.544 Mbps circuit to 24 circuits for use with Voice Grade Services.

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.

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.

(6) DS1 to DS0

An arrangement that converts a 1.544 Mbps circuit to twenty three (23) 64.0 Kbps circuits utilizing digital time division multiplexing.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.4 Optional Features and Functions (Cont'd)(C) Central Office Multiplexing (Cont'd)(7) DSO to Subrate

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

(D) Clear Channel Capability (CCC)

CCC provides a Bipolar with Eight Zero Substitution (B8ZS) encoding technique that allows a customer to transport 1.536 Mbps information rate signals over a 1.544 Mbps High Capacity Channel with no restraint on the quantity or sequence of one (mark) and zero (space) bits. This arrangement allows customers to derive 64 kbps clear channels. This service is provided only on 1.544 Mbps High Capacity Channels between two customer designated premises and is subject to availability of facilities. This arrangement requires the customer-provided multiplexing equipment to be compatible with the B8ZS line code as specified in Technical Reference TR-NPL-000054 and Technical Reference PUB TR-NPL-000342.

(E) 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>2</u>	<u>3</u>	<u>4</u>
Automatic Loop Transfer		X				
Central Office Multiplexing:						
DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DS0		X				
DS0 to Subrate*	X					
Transfer Arrangement		X				
Clear Channel Capability		X				

\* Available only on a circuit of a 1.544 Mbps facility to a Telephone Company hub.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges(A) Circuit Termination - High Capacity DS1  
- Per Point of Termination

## (1) End User

<u>Jurisdiction</u>	<u>1.544 Mbps</u>	
	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
Alabama	\$697.00	\$450.60
Missouri	699.00	450.00

## (2) POP

<u>Jurisdiction</u>	<u>1.544 Mbps</u>	
	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
Alabama	\$697.00	\$450.60
Missouri	699.00	450.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)

- (A) Circuit Termination - High Capacity DS1 Term Payment Plan [1]  
- Per Point of Termination  
- (End User/POP)

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>
Alabama	\$450.00	\$261.25
Missouri	450.00	261.25

[1] Effective May 16, 2019 DS1 Term Payment Plan (TPP) will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)

- (A) Circuit Termination - High Capacity DS1 Term Payment Plan [1]  
- Per Point of Termination  
- (EndUser/POP)

<u>Jurisdiction</u>	<u>Two Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>
Alabama	\$261.25	\$247.50	\$220.00
Missouri	261.25	247.50	220.00

[1] Effective May 16, 2019 DS1 Term Payment Plan (TPP) will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)

- (A) Circuit Termination - High Capacity FT1 Facilities<sup>[1]</sup>  
- Per Point of Termination

Standard Arrangement - 2 X 56 Kbps or 2 X 64 Kbps

<u>Jurisdiction</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
Alabama	\$104.50	\$449.30
Missouri	103.00	450.00

<sup>[1]</sup> Effective February 1, 2020 Fractional T1 Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)

- (A) Circuit Termination - High Capacity FT1 Facilities <sup>[1]</sup>  
- Per Point of Termination

Standard Arrangement - 4 X 56 Kbps or 4 X 64 Kbps

<u>Jurisdiction</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
Alabama	\$114.00	\$449.30
Missouri	114.25	450.00

<sup>[1]</sup> Effective February 1, 2020 Fractional T1 Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)

- (A) Circuit Termination - High Capacity FT1 Facilities <sup>[1]</sup>  
- Per Point of Termination

Standard Arrangement - 6 X 56 Kbps or 6 X 64 Kbps

<u>Jurisdiction</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
Alabama	\$130.00	\$449.30
Missouri	130.00	450.00

<sup>[1]</sup> Effective February 1, 2020 Fractional T1 Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)

- (A) Circuit Termination - High Capacity FT1 Optional Payment Plan [1]  
- Per Point of Termination

2 X 56 Kbps or 2 X 64 Kbps

<u>Jurisdiction</u>	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>
Alabama	\$99.75	\$95.00	\$ 90.25
Missouri	98.50	94.00	90.00

[1] Effective May 16, 2019 High Capacity FT1 Optional Payment Plan will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)(A) Circuit Termination - High Capacity FT1 Optional Payment Plan [1]  
- Per Point of Termination4 X 56 Kbps or 4 X 64 Kbps

<u>Jurisdiction</u>	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>
Alabama	\$109.25	\$104.50	\$99.75
Missouri	109.50	104.50	99.75

[1] Effective May 16, 2019 High Capacity FT1 Optional Payment Plan will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)(A) Circuit Termination - High Capacity FT1 Optional Payment Plan [1]  
- Per Point of Termination6 X 56 Kbps or 6 X 64 Kbps

<u>Jurisdiction</u>	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>	<u>Five Year Monthly Rate</u>
Alabama	\$125.00	\$120.00	\$109.25
Missouri	120.50	115.50	110.00

[1] Effective May 16, 2019 High Capacity FT1 Optional Payment Plan will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)

- (A) Circuit Termination - High Capacity DS3 [1]  
- Per Point of Termination  
(End User/POP)

## (1) Individual DS3 - Noncapacity System

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>Month-to-Month Rate</u>
Alabama	\$1,027.99	\$6,532.00
Missouri	950.00	6,555.00

[1] Effective May 16, 2019 DS3 High Capacity 1, 3, 5 and 7 Year Rate Plans will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)(A) Circuit Termination - High Capacity DS3 [1] (Cont'd)  
- Per Point of Termination  
(End User/POP)

## (1) Individual DS3 - Noncapacity System

<u>Jurisdiction</u>	<u>One Year Monthly Rate [1]</u>	<u>Three Year Monthly Rate [1]</u>	<u>Five Year Monthly Rate [1]</u>
Alabama	\$3,078.33	\$2,916.32	\$2,592.28
Missouri	3,078.33	2,916.32	2,592.28

<u>Jurisdiction</u>	<u>Seven Year Monthly Rate [1]</u>
Alabama	\$2,430.26
Missouri	2,430.26

[1] Effective May 16, 2019 High Capacity DS3 High Capacity 1, 3, 5 and 7 Year Rate Plans will be grandfathered until the expiration date of the current term. Term renewals will not be offered on these plans going forward as of this effective date. Upon expiration of the current term, rates will revert to month-to-month.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity (Cont'd)7.11.5 Rates and Charges (Cont'd)

## (B) Circuit Mileage - High Capacity DS1

1.544 Mbps

<u>Jurisdiction</u>	Monthly Rate <u>Fixed</u>	Monthly Rate <u>Per Mile</u>	
Alabama	<b>\$400.00 (I)</b>	<b>\$70.00 (I)</b>	<b>(C)</b>
Missouri	<b>\$400.00 (I)</b>	<b>\$70.00 (I)</b>	<b>(C)</b>

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity (Cont'd)7.11.5 Rates and Charges (Cont'd)

## (B) Circuit Mileage per High Capacity DS1 - MetroLAN

Monthly  
RateJurisdictionAlabama  
MissouriNA  
\$75.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)

## (B) Circuit Mileage - High Capacity FT1 Facilities

2 X 56 Kbps or 2 X 64 Kbps

<u>Jurisdiction</u>	Monthly Rate <u>Fixed</u>	Monthly Rate <u>Per Mile</u>
Alabama	\$12.35	\$2.09
Missouri	19.00	1.46



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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)

## (B) Circuit Mileage - High Capacity FT1 Facilities

4 X 56 Kbps or 4 X 64 Kbps

<u>Jurisdiction</u>	Monthly Rate <u>Fixed</u>	Monthly Rate <u>Per Mile</u>
Alabama	\$17.10	\$2.12
Missouri	21.85	1.50

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)

## (B) Circuit Mileage - High Capacity FT1 Facilities

6 X 56 Kbps or 6 X 64 Kbps

<u>Jurisdiction</u>	Monthly Rate <u>Fixed</u>	Monthly Rate <u>Per Mile</u>
Alabama	\$22.80	\$2.16
Missouri	24.70	1.54

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)

## (B) Circuit Mileage - High Capacity DS3

<u>Jurisdiction</u>	<u>Monthly Rate</u>	
	<u>Fixed</u>	<u>Per Mile</u>
Alabama	\$2,672.00	\$467.00
Missouri	2,681.00	469.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity (Cont'd)7.11.5 Rates and Charges (Cont'd)

- (B) Circuit Mileage - For frequency bandwidths other than 1.544 Mbps (DS1) and 44.736 Mbps (DS3):

Fixed and Per Mile Monthly Rates for the Circuit Mileage rate element of High Capacity Service for all jurisdictions of the Issuing Carriers listed on Title Page 2 will be determined on an Individual Case Basis and filed in Section 7.12 following.

Available frequency bandwidths are as follows.

Frequency  
Bandwidths

64 Kbps  
3.152 Mbps  
6.312 Mbps  
274.176 Mbps

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity (Cont'd)7.11.5 Rates and Charges (Cont'd)(C) Optional Features and Functions

Rates and charges for the Optional Features and Functions of High Capacity Service listed in this section apply to all jurisdictions of the Issuing Carriers listed on Title Page 2.

	<u>Alabama Monthly Rates</u>	<u>Missouri Monthly Rates</u>	<u>Nonrecurring Charges</u>
(1) Multiplexing <sup>[1]</sup>			
DS4 to DS1 - Per arrangement	ICB	ICB	None
DS2 to DS1 - Per arrangement	ICB	ICB	None
DS1C to DS1 - Per arrangement	ICB	ICB	None
DS1 TO DS0 - Per arrangement	\$170.00	\$170.00	None
DS0 to Subrates - Per arrangement			
Up to 20 2.4 Kbps services	\$160.00	151.45	None
Up to 10 4.8 kbps services	\$120.00	113.60	\$850.00
Up to 5 9.6 kbps services	\$100.00	94.66	\$850.00

<sup>[1]</sup> Effective February 1, 2020 Digital Data Services are grandfathered. Availability to current customers is limited to circuits in service at existing locations.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)(C) Optional Features and Functions (Cont'd)

- (1) Multiplexing (Cont'd)  
DS1 to Voice Multiplexing\*  
- Per arrangement

<u>Jurisdiction</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
Alabama	<b>\$238.00 (I)</b>	\$850.00	<b>(C)</b>
Missouri	<b>\$238.00 (I)</b>	850.00	<b>(C)</b>

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges (Cont'd)(C) Optional Features and Functions (Cont'd)

- (1) Multiplexing (Cont'd)  
 DS3 to DS1 Multiplexing  
 - Per arrangement

<u>Jurisdiction</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
Alabama	<b>\$2,235.80 (I)</b>	\$400.00	<b>(C)</b>
Missouri	<b>\$2,235.80 (I)</b>	400.00	<b>(C)</b>

## ACCESS SERVICE

### 7. Special Access Service (Cont'd)

#### 7.11 High Capacity (Cont'd)

##### 7.11.5 Rates and Charges (Cont'd)

##### (C) Optional Features and Functions (Cont'd)

	<u>Alabama Monthly Rates</u>	<u>Missouri Monthly Rates</u>	<u>Nonrecurring Charges</u>
Automatic Loop Transfer - Per arrangement*	\$97.33	\$97.33	None
Transfer Arrangement (dial up***) - Per four port arrangement including control channel termination****)	160.88	160.88	None
Clear Channel Capability - Per DS1 circuit arranged	None	None	\$637.50

\* An additional Circuit Termination charge will apply whenever the spare line is provided as a leg to the customer premises.

\*\*\* The Dial-up option requires the customer to purchase the Controller Arrangement from BRIGHTSPEED LOCAL OPERATING COMPANIES Tariff F.C.C. No. 3 Section 8-12(A).

\*\*\*\* An additional Circuit Termination charge will apply whenever a spare circuit is configured as a leg to the customers premises. Additional circuit mileage charges will also apply when the transfer arrangement is not located in the customer premises serving wire center.



ACCESS SERVICE

7. Special Access Service (Cont'd)

7.12 Individual Case Filing

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

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.13 Reserved For Future Use

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport7.14.1 Basic Service Description

Ethernet Transport (ET) service is a high speed data transport service that provides point-to-point transmissions of customers' data communications that customers deliver to the Telephone Company in a fast packet based ethernet protocol. ET is available at eleven transport speeds: 10 Mbps, 20 Mbps, 50 Mbps, 100 Mbps, 150 Mbps, 300 Mbps, 450 Mbps, 600 Mbps, 1 Gbps, 2.5 Gbps and 10 Gbps.

ET is provided on a month-to-month basis or for periods of one, three or five years. When a customer orders ET, the customer and the Telephone Company will work cooperatively to plan, engineer, provision and manage the ET circuits. ET is only available where facilities and operating conditions exist.

(A) Ethernet Transport Circuit Termination

ET circuit terminations may be used to connect the following:

- a customer designated premises to the serving wire center of that premises.

The ET circuit termination rate element may vary based on distance. The mileage used to determine the monthly rate for circuit terminations located outside a Telephone Company Central Office is the airline distance between the customer's designated premises and the Telephone Company serving wire center. The mileage measurement is determined by utilizing exchange maps and mileage tables located in designated Telephone Company offices for such purposes.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.1 Basic Service Description (Cont'd)(A) Ethernet Transport Circuit Termination (Cont'd)

ET circuit terminations provided to a customer's designated premises will be installed in a single, common space under Telephone Company control. An ET circuit termination may not be split between premises or terminated in multiple locations within a premises. The customer must provide suitable floor space, environmental controls and non-switched AC power to support the ET circuit termination at the customer's premises location.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.1 Basic Service Description (Cont'd)(B) Ethernet Transport Circuit Mileage

Ethernet Transport circuit mileage provides transport between two Telephone Company serving wire centers. Air mileage is measured using V&H coordinates between the Telephone Company serving wire centers. The ET channel mileage rates are made up of a fixed rate and per mile rate.

Rates and charges for ET are set forth in 7.14.3 following.

(C) Technical Specifications

The technical specifications for the protocols transmitted over Ethernet Transport service are delineated in the following technical publications:

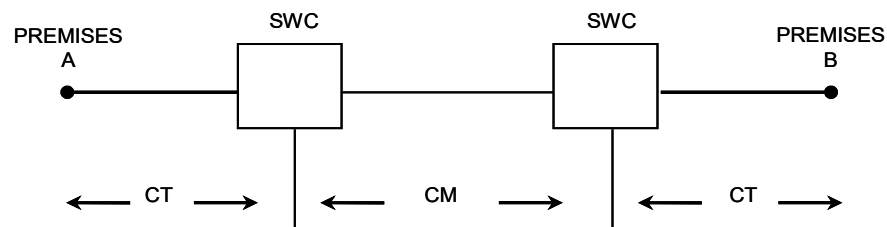
<u>Protocol</u>	<u>Publication</u>
10 Mbps Ethernet	ANSI / IEEE X3.802.3
100 Mbps Ethernet	ANSI / IEEE X3.802.3u
1 Gbps Ethernet	ANSI / IEEE X3.802.3z

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.1 Basic Service Description (Cont'd)(D) Service Components

The following diagram depicts a generic view of the components of Ethernet Transport service:

Ethernet Transport Service



CT - Circuit Termination  
CM - Circuit Mileage  
SWC - Serving Wire Center

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.2 Rate Regulations

The rates and charges for Ethernet Transport (ET) service are set forth in 7.14.3 following and are in addition to any applicable rates and charges set forth in any other sections of this service guide. Nonrecurring charges and monthly recurring rates applicable for ET service are billed in advance.

- (A) Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation of service) and are developed at full cost recovery on a labor hours per labor time basis. Nonrecurring charges will apply for Ethernet Transport regardless of the option selected (i.e., month-to-month, one, three or five year commitment). However, if at the end of the one, three or five year commitment period, the customer elects to renew their commitment plan or revert to the month-to-month rates, a nonrecurring charge will not apply for this renewal.
- (B) Monthly recurring charges are flat recurring rates that apply each month or fraction thereof that a specific rate element is provided regardless of the amount of usage. For billing purposes, each month is considered to have 30 days.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.2 Rate Regulations (Cont'd)

- (C) Ethernet Transport service is available on a month-to-month basis or for a period of one, three or five years. All ET arrangements will begin in month one. If the customer requests that the service be disconnected prior to the expiration of the one, three or five year service period selected, termination liability charges equal to 50% of the remaining months of the term will apply. For example, a customer disconnecting in the 12th month of a 3 year plan will be charged 50% of the remaining 24 months of billing. The Federal Government and its authorized agents are exempt from the 50% termination liability penalty charge if service is discontinued prior to the expiration of the one, three or five year minimum commitment period.

Additionally, customers may disconnect ET service, without penalty, should the total monthly recurring rates associated with ET service increase by 10% or more at any one time. The customer must notify the Telephone Company in writing within 90 days after the effective date of the rate increase if they elect to discontinue service. Rate decreases will automatically be applied to the monthly recurring rates for the remainder of the service period.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.2 Rate Regulations (Cont'd)

## (C) (Cont'd)

If the customer does not specify renewal terms in writing 90 days prior to the expiration of the one, three or five year period, the commitment period and ET service rates in effect at the time of expiration will automatically renew. Alternatively, 90 days prior to the expiration of the one, three or five year period the customer may specify in writing their intent to continue use of the services under month-to-month rates. The customer can terminate ET service at the end of the minimum commitment period with no penalty or obligation to continue the service. Further, if the customer notifies the Telephone Company in writing 90 days prior to the expiration date of their minimum commitment period with their intent to not renew their ET service, the customer will have six (6) months after the expiration date to submit their disconnect order(s). If the customer fails to submit their disconnect order(s), by the end of the six (6) month period, the commitment period in effect at the time of the original expiration period will automatically renew at the current service guide rates. If the customer submits their disconnect orders(s) after the six (6) month period, termination liability charges will apply. Termination liability charges will be calculated at 50% of the monthly recurring charges for the remaining months of the commitment period up to a maximum of twelve (12) months. Time from the expiration of the original commitment period until the disconnect order(s) are received will apply for calculation of the termination liability charges.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.2 Rate Regulations (Cont'd)

(C) (Cont'd)

Customers may upgrade Ethernet Transport without incurring termination liability charges under the following circumstances:

- (1) The order for the disconnect of the existing Ethernet Transport and the order for the upgraded Ethernet Transport must be received at the same time.
- (2) The new Ethernet Transport is provided between the same customer and central office locations as the discontinued service.
- (3) The service period of the new Ethernet Transport is equal to or greater than the service period of the existing Ethernet Transport service.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.3 Rates and Charges(A) Circuit Termination(1) Month-to-Month Rates

- Per Point of Termination

Jurisdiction	Monthly Rates			Nonrecurring Installation Charges
	Within CO	0-3 Miles	Over 3 Miles	
<u>Alabama</u>				
10 Mbps	\$260.00	\$1,340.00	\$2,200.00	\$800.00
20 Mbps	\$930.00	\$1,360.00	\$2,240.00	\$900.00
50 Mbps	\$960.00	\$1,420.00	\$2,360.00	\$900.00
100 Mbps	\$1,020.00	\$2,040.00	\$3,910.00	\$1,000.00
150 Mbps	\$1,050.00	\$3,980.00	\$4,890.00	\$1,500.00
300 Mbps	\$1,090.00	\$4,450.00	\$5,380.00	\$5,000.00
450 Mbps	\$1,120.00	\$4,650.00	\$5,600.00	\$5,000.00
600 Mbps	\$1,140.00	\$4,830.00	\$5,810.00	\$10,000.00
1 Gbps	\$1,190.00	\$5,850.00	\$6,860.00	\$10,000.00
2.5 Gbps	\$1,785.00	\$9,765.00	\$11,430.00	\$10,000.00
10 Gbps	\$4,462.50	\$24,412.50	\$28,575.00	\$10,000.00

Jurisdiction	Monthly Rates			Nonrecurring Installation Charges
	Within CO	0-3 Miles	Over 3 Miles	
<u>Missouri</u>				
10 Mbps	\$260.00	\$1,340.00	\$2,200.00	\$800.00
20 Mbps	\$930.00	\$1,360.00	\$2,240.00	\$900.00
50 Mbps	\$960.00	\$1,420.00	\$2,360.00	\$900.00
100 Mbps	\$1,020.00	\$2,040.00	\$3,910.00	\$1,000.00
150 Mbps	\$1,050.00	\$3,980.00	\$4,890.00	\$1,500.00
300 Mbps	\$1,090.00	\$4,450.00	\$5,380.00	\$5,000.00
450 Mbps	\$1,120.00	\$4,650.00	\$5,600.00	\$5,000.00
600 Mbps	\$1,140.00	\$4,830.00	\$5,810.00	\$10,000.00
1 Gbps	\$1,190.00	\$5,850.00	\$6,860.00	\$10,000.00
2.5 Gbps	\$1,785.00	\$9,765.00	\$11,430.00	\$10,000.00
10 Gbps	\$4,462.50	\$24,412.50	\$28,575.00	\$10,000.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.3 Rates and Charges (Cont'd)(A) Circuit Termination (Cont'd)(2) 1 Year Commitment Rates

- Per Point of Termination

Jurisdiction	Monthly Rates			Nonrecurring Installation Charges
	Within CO	0-3 Miles	Over 3 Miles	
<u>Alabama</u>				
10 Mbps	\$240.00	\$1,250.00	\$2,040.00	\$800.00
20 Mbps	\$860.00	\$1,270.00	\$2,090.00	\$900.00
50 Mbps	\$890.00	\$1,330.00	\$2,180.00	\$900.00
100 Mbps	\$940.00	\$1,910.00	\$3,640.00	\$1,000.00
150 Mbps	\$990.00	\$3,690.00	\$4,540.00	\$1,500.00
300 Mbps	\$1,020.00	\$4,130.00	\$5,000.00	\$5,000.00
450 Mbps	\$1,040.00	\$4,310.00	\$5,190.00	\$5,000.00
600 Mbps	\$1,050.00	\$4,480.00	\$5,410.00	\$10,000.00
1 Gbps	\$1,110.00	\$5,440.00	\$6,370.00	\$10,000.00
2.5 Gbps	\$1,665.00	\$9,060.00	\$10,620.00	\$10,000.00
10 Gbps	\$4,162.50	\$22,650.00	\$26,550.00	\$10,000.00

Jurisdiction	Monthly Rates			Nonrecurring Installation Charges
	Within CO	0-3 Miles	Over 3 Miles	
<u>Missouri</u>				
10 Mbps	\$240.00	\$1,250.00	\$2,040.00	\$800.00
20 Mbps	\$860.00	\$1,270.00	\$2,090.00	\$900.00
50 Mbps	\$890.00	\$1,330.00	\$2,180.00	\$900.00
100 Mbps	\$940.00	\$1,910.00	\$3,640.00	\$1,000.00
150 Mbps	\$990.00	\$3,690.00	\$4,540.00	\$1,500.00
300 Mbps	\$1,020.00	\$4,130.00	\$5,000.00	\$5,000.00
450 Mbps	\$1,040.00	\$4,310.00	\$5,190.00	\$5,000.00
600 Mbps	\$1,050.00	\$4,480.00	\$5,410.00	\$10,000.00
1 Gbps	\$1,110.00	\$5,440.00	\$6,370.00	\$10,000.00
2.5 Gbps	\$1,665.00	\$9,060.00	\$10,620.00	\$10,000.00
10 Gbps	\$4,162.50	\$22,650.00	\$26,550.00	\$10,000.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.3 Rates and Charges (Cont'd)(A) Circuit Termination (Cont'd)(3) 3 Year Commitment Rates

- Per Point of Termination

<u>Jurisdiction</u> <u>Alabama</u>	<u>Monthly Rates</u>			<u>Nonrecurring</u> <u>Installation</u> <u>Charges</u>
	<u>Within</u> <u>CO</u>	<u>0-3</u> <u>Miles</u>	<u>Over 3</u> <u>Miles</u>	
10 Mbps	\$220.00	\$1,110.00	\$1,820.00	\$800.00
20 Mbps	\$470.00	\$1,120.00	\$1,840.00	\$900.00
50 Mbps	\$800.00	\$1,180.00	\$1,940.00	\$900.00
100 Mbps	\$840.00	\$1,690.00	\$3,220.00	\$1,000.00
150 Mbps	\$880.00	\$2,390.00	\$4,020.00	\$1,500.00
300 Mbps	\$910.00	\$3,210.00	\$4,420.00	\$5,000.00
450 Mbps	\$920.00	\$3,810.00	\$4,590.00	\$5,000.00
600 Mbps	\$930.00	\$3,970.00	\$4,780.00	\$10,000.00
1 Gbps	\$990.00	\$4,820.00	\$5,640.00	\$10,000.00
2.5 Gbps	\$1,485.00	\$8,025.00	\$9,390.00	\$10,000.00
10 Gbps	\$3,712.50	\$20,062.50	\$23,475.00	\$10,000.00

<u>Jurisdiction</u> <u>Missouri</u>	<u>Monthly Rates</u>			<u>Nonrecurring</u> <u>Installation</u> <u>Charges</u>
	<u>Within</u> <u>CO</u>	<u>0-3</u> <u>Miles</u>	<u>Over 3</u> <u>Miles</u>	
10 Mbps	\$220.00	\$1,110.00	\$1,820.00	\$800.00
20 Mbps	\$470.00	\$1,120.00	\$1,840.00	\$900.00
50 Mbps	\$800.00	\$1,180.00	\$1,940.00	\$900.00
100 Mbps	\$840.00	\$1,690.00	\$3,220.00	\$1,000.00
150 Mbps	\$880.00	\$2,390.00	\$4,020.00	\$1,500.00
300 Mbps	\$910.00	\$3,210.00	\$4,420.00	\$5,000.00
450 Mbps	\$920.00	\$3,810.00	\$4,590.00	\$5,000.00
600 Mbps	\$930.00	\$3,970.00	\$4,780.00	\$10,000.00
1 Gbps	\$990.00	\$4,820.00	\$5,640.00	\$10,000.00
2.5 Gbps	\$1,485.00	\$8,025.00	\$9,390.00	\$10,000.00
10 Gbps	\$3,712.50	\$20,062.50	\$23,475.00	\$10,000.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.3 Rates and Charges (Cont'd)(A) Circuit Termination (Cont'd)(4) 5 Year Commitment Rates

- Per Point of Termination

Jurisdiction	Monthly Rates			Nonrecurring Installation Charges
	Within CO	0-3 Miles	Over 3 Miles	
<u>Alabama</u>				
10 Mbps	\$215.00	\$960.00	\$1,550.00	\$800.00
20 Mbps	\$400.00	\$970.00	\$1,600.00	\$900.00
50 Mbps	\$680.00	\$1,010.00	\$1,680.00	\$900.00
100 Mbps	\$730.00	\$1,460.00	\$3,100.00	\$1,000.00
150 Mbps	\$750.00	\$2,070.00	\$3,490.00	\$1,500.00
300 Mbps	\$780.00	\$2,790.00	\$3,840.00	\$5,000.00
450 Mbps	\$800.00	\$3,310.00	\$3,990.00	\$5,000.00
600 Mbps	\$810.00	\$3,450.00	\$4,150.00	\$10,000.00
1 Gbps	\$850.00	\$4,180.00	\$4,900.00	\$10,000.00
2.5 Gbps	\$1,275.00	\$6,975.00	\$8,160.00	\$10,000.00
10 Gbps	\$3,187.50	\$17,437.50	\$20,400.00	\$10,000.00

Jurisdiction	Monthly Rates			Nonrecurring Installation Charges
	Within CO	0-3 Miles	Over 3 Miles	
<u>Missouri</u>				
10 Mbps	\$215.00	\$960.00	\$1,550.00	\$800.00
20 Mbps	\$400.00	\$970.00	\$1,600.00	\$900.00
50 Mbps	\$680.00	\$1,010.00	\$1,680.00	\$900.00
100 Mbps	\$730.00	\$1,460.00	\$3,100.00	\$1,000.00
150 Mbps	\$750.00	\$2,070.00	\$3,490.00	\$1,500.00
300 Mbps	\$780.00	\$2,790.00	\$3,840.00	\$5,000.00
450 Mbps	\$800.00	\$3,310.00	\$3,990.00	\$5,000.00
600 Mbps	\$810.00	\$3,450.00	\$4,150.00	\$10,000.00
1 Gbps	\$850.00	\$4,180.00	\$4,900.00	\$10,000.00
2.5 Gbps	\$1,275.00	\$6,975.00	\$8,160.00	\$10,000.00
10 Gbps	\$3,187.50	\$17,437.50	\$20,400.00	\$10,000.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.3 Rates and Charges (Cont'd)(B) Circuit Mileage(1) Month-to-Month Rates

Jurisdiction	Monthly Rates	
	<u>Fixed</u>	<u>Per Mile</u>
<u>Alabama</u>		
10 Mbps	\$280.00	\$40.00
20 Mbps	\$290.00	\$50.00
50 Mbps	\$370.00	\$60.00
100 Mbps	\$600.00	\$100.00
150 Mbps	\$1,270.00	\$120.00
300 Mbps	\$1,910.00	\$200.00
450 Mbps	\$2,840.00	\$320.00
600 Mbps	\$3,530.00	\$490.00
1 Gbps	\$6,290.00	\$600.00
2.5 Gbps	\$9,435.00	\$900.00
10 Gbps	\$23,587.50	\$2,250.00
	<u>Fixed</u>	<u>Per Mile</u>
<u>Missouri</u>		
10 Mbps	\$280.00	\$40.00
20 Mbps	\$290.00	\$50.00
50 Mbps	\$370.00	\$60.00
100 Mbps	\$600.00	\$100.00
150 Mbps	\$1,270.00	\$120.00
300 Mbps	\$1,910.00	\$200.00
450 Mbps	\$2,840.00	\$320.00
600 Mbps	\$3,530.00	\$490.00
1 Gbps	\$6,290.00	\$600.00
2.5 Gbps	\$9,435.00	\$900.00
10 Gbps	\$23,587.50	\$2,250.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.3 Rates and Charges (Cont'd)(B) Circuit Mileage (Cont'd)(2) 1 Year Commitment Rates

Jurisdiction	Monthly Rates	
	<u>Fixed</u>	<u>Per Mile</u>
<u>Alabama</u>		
10 Mbps	\$260.00	\$35.00
20 Mbps	\$280.00	\$45.00
50 Mbps	\$340.00	\$55.00
100 Mbps	\$570.00	\$85.00
150 Mbps	\$1,180.00	\$110.00
300 Mbps	\$1,770.00	\$190.00
450 Mbps	\$2,630.00	\$300.00
600 Mbps	\$3,290.00	\$470.00
1 Gbps	\$5,840.00	\$570.00
2.5 Gbps	\$8,760.00	\$855.00
10 Gbps	\$21,900.00	\$2,137.50
<u>Missouri</u>	<u>Fixed</u>	<u>Per Mile</u>
10 Mbps	\$260.00	\$35.00
20 Mbps	\$280.00	\$45.00
50 Mbps	\$340.00	\$55.00
100 Mbps	\$570.00	\$85.00
150 Mbps	\$1,180.00	\$110.00
300 Mbps	\$1,770.00	\$190.00
450 Mbps	\$2,630.00	\$300.00
600 Mbps	\$3,290.00	\$470.00
1 Gbps	\$5,840.00	\$570.00
2.5 Gbps	\$8,760.00	\$855.00
10 Gbps	\$21,900.00	\$2,137.50



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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.3 Rates and Charges (Cont'd)(B) Circuit Mileage (Cont'd)(3) 3 Year Commitment Rates

Jurisdiction	Monthly Rates	
	<u>Fixed</u>	<u>Per Mile</u>
<u>Alabama</u>		
10 Mbps	\$160.00	\$24.00
20 Mbps	\$170.00	\$30.00
50 Mbps	\$210.00	\$37.50
100 Mbps	\$315.00	\$55.00
150 Mbps	\$475.00	\$68.00
300 Mbps	\$800.00	\$115.00
450 Mbps	\$1,100.00	\$165.00
600 Mbps	\$1,375.00	\$215.00
1 Gbps	\$2,200.00	\$300.00
2.5 Gbps	\$3,300.00	\$450.00
10 Gbps	\$8,250.00	\$1,125.00
<u>Missouri</u>	<u>Fixed</u>	<u>Per Mile</u>
10 Mbps	\$160.00	\$24.00
20 Mbps	\$170.00	\$30.00
50 Mbps	\$210.00	\$37.50
100 Mbps	\$315.00	\$55.00
150 Mbps	\$475.00	\$68.00
300 Mbps	\$800.00	\$115.00
450 Mbps	\$1,100.00	\$165.00
600 Mbps	\$1,375.00	\$215.00
1 Gbps	\$2,200.00	\$300.00
2.5 Gbps	\$3,300.00	\$450.00
10 Gbps	\$8,250.00	\$1,125.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.14 Ethernet Transport (Cont'd)7.14.3 Rates and Charges (Cont'd)(B) Circuit Mileage (Cont'd)(4) 5 Year Commitment Rates

Jurisdiction	Monthly Rates	
	<u>Fixed</u>	<u>Per Mile</u>
<u>Alabama</u>		
10 Mbps	\$110.00	\$8.00
20 Mbps	\$120.00	\$10.00
50 Mbps	\$150.00	\$12.50
100 Mbps	\$225.00	\$18.00
150 Mbps	\$340.00	\$22.00
300 Mbps	\$575.00	\$36.00
450 Mbps	\$780.00	\$51.00
600 Mbps	\$985.00	\$65.00
1 Gbps	\$1,600.00	\$90.00
2.5 Gbps	\$2,400.00	\$135.00
10 Gbps	\$6,000.00	\$338.00
<u>Missouri</u>	<u>Fixed</u>	<u>Per Mile</u>
10 Mbps	\$110.00	\$8.00
20 Mbps	\$120.00	\$10.00
50 Mbps	\$150.00	\$12.50
100 Mbps	\$225.00	\$18.00
150 Mbps	\$340.00	\$22.00
300 Mbps	\$575.00	\$36.00
450 Mbps	\$780.00	\$51.00
600 Mbps	\$985.00	\$65.00
1 Gbps	\$1,600.00	\$90.00
2.5 Gbps	\$2,400.00	\$135.00
10 Gbps	\$6,000.00	\$338.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line7.15.1 Basic Service Description

Ethernet Virtual Private Line (EVPL) service provides the ability to order Ethernet service where a single customer connection can support multiple applications with varying Quality of Service (QoS). EVPL is available at transport speeds of: 10 Mbps, 100 Mbps, 1000 Mbps (1 Gbps) and 10000 Mbps (10 Gbps).

EVPL is provided on a monthly basis, under a Term Discount Plan for periods of three or five years as set forth in 7.15.2(C) following or under a Fixed Rate Term Plan for a period of seven years or as specified and set forth in 7.15.2(D) following. When a customer orders EVPL, the customer and the Telephone Company will work cooperatively to plan, engineer, provision and manage the EVPL circuits. EVPL is only available where facilities and operating conditions exist.

EVPL provides customer capabilities to support different Quality of Service (QoS) (i.e., Gold, Silver and Best Effort) as described in (E) following over the same connection and offers customers increased flexibility to match bandwidth to their real needs for voice, data and video applications on each connection. The customer orders the portion of their EVPL bandwidth that will be allocated for each quality of service.

For each EVPL, the customer's bandwidth will be rate limited or policed to a fixed speed for each QoS level specified in the QoS profile selected for the Ethernet Virtual Connection (EVC).

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.1 Basic Service Description (Cont'd)

EVPL service is available 24 hours per day, 7 days per week, except for preventive maintenance. Due to the nature of EVPL it will be necessary to perform preventive maintenance and software updates. This will mean that the EVPL service will be unavailable during the period of time when preventive maintenance is being performed. The Company will provide notice to customers of such maintenance.

(A) User to Network (UNI) Port Connection

The User to Network (UNI) Port Connection is the physical interface or port that is the demarcation between the customer and the service provider. The UNI Port Connection is always provided by the service provider. The UNI Port Connection in a Carrier Ethernet Network (CEN) is a physical Ethernet Interface at operating speeds of 10 Mbps, 100 Mbps, 1000 Mbps (1 Gbps) and 10000 Mbps (10 Gbps).

(B) Network to Network (NNI) Port Connection

The Network to Network (NNI) Port Connection is the interface between distinct CENs operated by one or more customers. The NNI Port Connection is available at operating speeds of 10 Mbps, 100 Mbps, 1000 Mbps (1 Gbps) and 10000 Mbps (10 Gbps).

(C) External Network to Network (E-NNI) Port Connection

The External Network to Network (E-NNI) Port Connection is the interface between two Operator CENs that are operated separately. The E-NNI Port Connection is available at operating speeds of 1000 Mbps (1 Gbps) and 10000 Mbps (10 Gbps).

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.1 Basic Service Description (Cont'd)(D) Operator Virtual Connection (OVC)

The OVC is associated with an ENNI port type. Customers may order more than one OVC per port. The Company will bill a monthly OVC charge per port that the OVC terminates on. The OVC is available at speeds of 3 Mbps, 5 Mbps, 7 Mbps, 10 Mbps, 20 Mbps, 30 Mbps, 40 Mbps, 50 Mbps, 60 Mbps, 70 Mbps, 80 Mbps, 90 Mbps, 100 Mbps, 200 Mbps, 300 Mbps, 400 Mbps, 500 Mbps, 600 Mbps, 700 Mbps, 800 Mbps, 900 Mbps and 1000 Mbps (1 Gbps).

(E) Ethernet Virtual Connection (EVC)

The EVC connects two or more customer UNI port connections. The EVC prevents data transfer between locations that are not part of the same EVC. The EVC is available at speeds of 3 Mbps, 5 Mbps, 7 Mbps, 10 Mbps, 20 Mbps, 30 Mbps, 40 Mbps, 50 Mbps, 60 Mbps, 70 Mbps, 80 Mbps, 90 Mbps, 100 Mbps, 200 Mbps, 300 Mbps, 400 Mbps, 500 Mbps, 600 Mbps, 700 Mbps, 800 Mbps, 900 Mbps and 1000 Mbps (1 Gbps).

EVC reconfigurations performed by the core network under normal operating conditions should occur without packet loss. An EVC is capable of interconnecting with other EVCs of equal bandwidth in the same metropolitan area.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.1 Basic Service Description (Cont'd)(E) Ethernet Virtual Connection (EVC) (Cont'd)

Two EVCs between the same two end points may be purchased by the customer in a configuration utilizing different switching locations for each EVC in order to provide a level of network diversity. In the event of interruption of the network, recovery of at least one EVC will be re-established and data flow will be restored in <50 ms.

(F) Quality of Service

The Quality of Service (QoS) is the ability to provide different priority to the various applications of EVPL in order to guarantee a certain level of performance to a data flow. The QoS is available at speeds of 3 Mbps, 5 Mbps, 7 Mbps, 10 Mbps, 20 Mbps, 30 Mbps, 40 Mbps, 50 Mbps, 60 Mbps, 70 Mbps, 80 Mbps, 90 Mbps, 100 Mbps, 200 Mbps, 300 Mbps, 400 Mbps, 500 Mbps, 600 Mbps, 700 Mbps, 800 Mbps, 900 Mbps and 1000 Mbps (1 Gbps) and is available in 3 different priority levels described following:

- Gold: The Gold QoS is supported by a low latency queue. The Low Latency Queuing (LLQ) feature in the Ethernet network is used for support of real-time service and is configured for strict priority queuing allowing latency sensitive applications, such as voice, to be sent first. Gold QoS will be marked for expedited handling within the EVPL network.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.1 Basic Service Description (Cont'd)(F) Quality of Service (Cont'd)

- Silver: The Silver QoS supports interactive video applications. The Silver QoS is policed to a maximum bandwidth.
- Best Effort: This QoS is the default QoS for other traffic that is not defined as Gold or Silver. Traffic that does not match any other QoS will be mapped as Best Effort. Traffic with the Best Effort QoS will have the lowest priority on the network and will support lower priority data applications, such as email and File Transfer Protocol (FTP).

EVPL reporting is available to customers who purchase the Gold or Silver QoS EVPL service. EVPL reporting allows customers to view their EVPL network via the use of a web interface and secure connection. EVPL reporting provides alarm surveillance, service level agreement reporting and performance report for the various network components that comprise the customer's EVPL network.

For each EVPL arrangement, the customer must decide the mix of applications that will be supported on that EVPL, the QoS mix that the EVPL must support and the bandwidth to be assigned for each QoS. The customer's bandwidth will be limited to the fixed speed associated with each QoS level. Therefore, total bandwidth available to support transmission of a specific QoS will depend upon the size of the customer's EVPL and the specific QoS bandwidth the customer selected for that EVPL.

A customer may select different QoS profiles for different EVPL connections that share the same network LAN, or EVPL network arrangement. However, technical limitations exist that limit the total number of different QoS profiles that can be utilized in a single EVPL network arrangement.

(G) OAM EVC

The Operations, Administration and Maintenance (OAM) EVC order in increments of 5 Mbps only and may order up to 5 each. The OAM EVC is available for the High Volume Based Plan only. The OAM EVC will be used solely by the customer for the purposes of their own testing of traffic to determine the operational capability of the circuit that is provisioned to/from a specific location.

Rates and charges for EVPL are set forth in 7.15.3 and 7.15.4 following.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.1 Basic Service Description (Cont'd)(H) EVPL Reconfiguration

An EVPL Reconfiguration charge will apply for each Ethernet Virtual Connection (EVC) or Quality of Service (QoS) established initially or when the customer requests the EVC or QoS be reconfigured after the initial set up. The EVPL Reconfiguration charge is in addition to all applicable charges associated with the new configuration.

(I) ICO NNI Arrangement (ICO Trunking Arrangement)

In some cases, the Telephone Company and another Incumbent Local Exchange Carrier (ILEC, sometimes also referred to as an Independent Company or ICO) may agree to jointly provide an Ethernet service where such service will be provided to locations in both the Telephone Company's and the other ILEC's serving territories. In such cases, the Telephone Company and the other ILEC may mutually agree to meet at a location (i.e., customer designated point of interconnection within the LATA or equivalent area) utilizing facilities suitable for delivery of EVPL service.

The rates and charges for EVPL are applicable for the Telephone Company provided portion of such service. The Telephone Company is responsible for the ordering, provisioning, billing and maintenance of EVPL up to the customer designated point of interconnection within the LATA or equivalent area.

Service Level Agreement (SLA) credits in 7.15.2 (E), preceding, will apply for the portion of the service the Telephone Company provides.

SLA reporting does not include traffic to or from any ICO NNI Trunking Arrangement

The ICO NNI Arrangement provides a shared trunk connection from the EVPL Switch to the customer designated point of interconnection within the LATA or equivalent area that is then connected to the ILEC (ICO) Ethernet switch, for purposes of providing multiple Ethernet Virtual Connections (EVCs) for the same or different customers over this shared facility. The ICO Trunk Connection charge is applied to each EVC that is transported on the ICO NNI Trunking Arrangement.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.1 Basic Service Description (Cont'd)(J) Channel Mileage/ICO NNI Additional Mileage

Channel mileage and additional mileage charges are applicable only to the Bandwidth Based Plan. Channel mileage charges apply to EVPL service based on the service speed and when the total distance associated with the data channel exceeds 65 miles between Company serving wire centers. EVPL channel mileage provides transport between two Company serving wire centers. Air mileage is measured using V&H coordinates between the Company serving wire centers. The EVPL channel mileage rate element will be applied on a per mile basis for each mile exceeding the first 65 miles of transport.

The Additional Mileage charge is based on the distance measured from the EVPL switch to the customer designated point of interconnection within the LATA or equivalent area for mileage and is applicable to each ICO Trunking Arrangement EVC transported across the shared facility.

Rates and charges are set forth in 7.15.4 following.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.1 Basic Service Description (Cont'd)(K) Technical Specifications

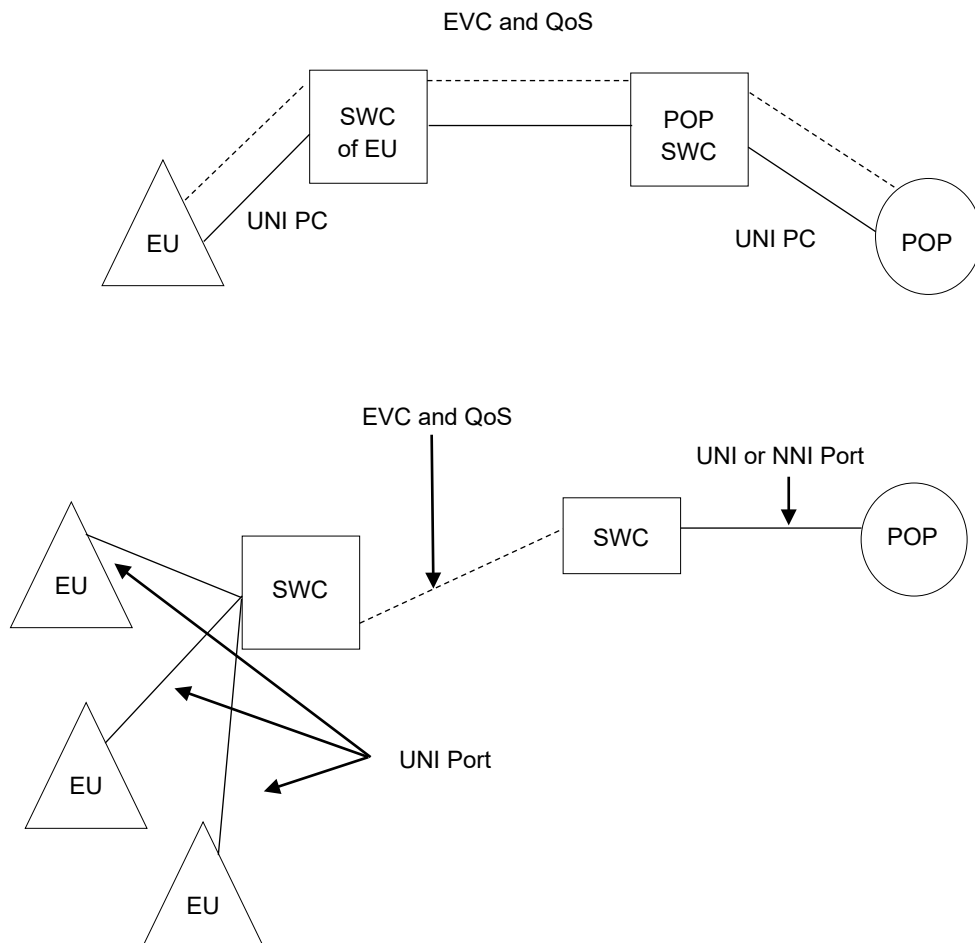
The technical specifications for the protocols transmitted over EVPL service are delineated in the following technical publications:

<u>Protocol</u>	<u>Publication</u>
10 Mbps Ethernet	ANSI / IEEE X3.802.3
100 Mbps Ethernet	ANSI / IEEE X3.802.3u
1 Gbps Ethernet	ANSI / IEEE X3.802.3z
	IETF RFC 4090
	ITU-TY.1731

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.1 Basic Service Description (Cont'd)(K) Service Components

The following diagrams depict generic views of the components of EVPL service.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations

The rates and charges for Ethernet Virtual Private Line (EVPL) service are set forth in Sections 7.15.3 following and are in addition to any applicable rates and charges set forth in any other sections of this service guide. Monthly recurring rates and nonrecurring charges applicable for EVPL service are billed in advance.

(A) Monthly Recurring Charges

Monthly recurring charges are flat recurring rates that apply each month or fraction thereof that a specific rate element is provided regardless of the amount of usage. For billing purposes, each month is considered to have 30 days.

(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation of service or change to an existing service) and are developed at full cost recovery on a labor hours per labor time basis. In addition, an EVPL Reconfiguration charge, as set forth in 7.15.3 following, will apply for each Ethernet Virtual Connection (EVC), Operator Virtual Connection (OVC) or Quality of Service (QoS) established initially or when the customer requests the EVC, OVC or QoS be reconfigured after the initial set up. The EVPL Reconfiguration charge is in addition to all applicable charges associated with the new configuration. The EVPL Reconfiguration charge will not apply to customers who purchase EVPL under the 7 year Fixed Rate Term Plan (FRTTP).

Special construction charges, as set forth in BRIGHTSPEED LOCAL OPERATING COMPANIES Tariff F.C.C. No. 5, may apply when technical limitations and/or lack of facilities exist, or if it is necessary to construct facilities to satisfy service requests.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(C) Term Discount Plan

The Service Element Term Plan is a Term Discount Plan (TDP) is available for EVPL service and applies to UNI and NNI port connections, EVC/OVC connections, QoS and ICO NNI Trunk Connection Charge. A TDP provides the customer discounted rates for the rate elements listed.

The customer has the option of ordering EVPL under a term commitment period of 1, 2, 3 or 5 years. The customer must notify the Company in writing the length of its selected term commitment period. In order for a circuit to be eligible for TDP pricing, the customer must commit a UNI and/or NNI port connection to a TDP. All committed ports must be ordered for the same term commitment period (i.e., all 3 years or all 5 years) and remain in-service at the same bandwidth capacity throughout the entire term commitment period. UNI or NNI port connections installed after the establishment of the customer's TDP may be ordered on a month-to-month basis or added as additional committed ports to a customer's existing term commitment period as described in (1) following.

The monthly rates for EVPL service under a TDP are set forth in 7.15.3 following.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(C) Term Discount Plan (Cont'd)

Although the customer commits the UNI and NNI port connections to the TDP, the following rate elements will receive TDP rates:

UNI Port Connection  
NNI Port Connection  
EVC/OVC Connections  
ICO NNI Trunking Arrangement  
QoS

Since there is no bandwidth or minimum commitment levels required for the UNI or NNI port connections under the TDP, disconnection of or change in the number or bandwidth capacities for these elements do not affect the customer's TDP.

Except as specified in (1) through (3) following, termination liability charges will apply when the customer fails to satisfy the term commitment period or the in-service requirements for their committed port connections.

Rate increases or decreases will automatically be applied to the monthly recurring rates for the remaining term of the TDP. If a Company initiated rate increase causes a customer's rate to increase by 10% or more at any one time, the customer may cancel their TDP without incurring termination liability charges.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(C) Term Discount Plan (Cont'd)

At the end of the term commitment period, the customer may subscribe to a new TDP commitment period or month-to-month rates. If the customer does not notify the Company in writing within 60 calendar days prior to the expiration of their 1, 2, 3 or 5 year term commitment period, the term commitment period and TDP rates and conditions in effect at the time of expiration will automatically renew.

(1) Addition of UNI/NNI Port Connection

When the customer requests the addition of a port connection, the customer will choose one of the following options when ordering a new port connection during its existing term commitment period:

- (a) Add the new port connection to its existing TDP, provided the customer commits to retain the newly installed port connection in-service at the same bandwidth capacity for the remainder of the existing term commitment period. The term commitment period of the customer's existing TDP will continue uninterrupted.
- (b) Convert the existing TDP in its entirety with a new TDP as described in (3) following.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(C) Term Discount Plan (Cont'd)(2) Upgrading a Committed UNI/NNI Port Connection

- (a) A TDP customer may upgrade a committed port connection without incurring termination liability charges, as set forth in (4) following, provided:
  - (1) the bandwidth capacity of the upgraded committed port connection is greater than the bandwidth capacity of the original committed port connection; and
  - (2) the customer commits to retain the upgraded committed port connections in-service for the remainder of the existing term commitment period; and
  - (3) the customer purchased the original committed port connection to offer to third party end users and the end user is the same for both the original committed port connection and the upgraded committed port connection. In the case of a move to a different building, the end user must be the same at the old and the new location.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(C) Term Discount Plan (Cont'd)(3) Converting a TDP

- (a) The customer may also convert an existing TDP with the Fixed Rate Term Plan (FRTTP) described in (D) following without incurring termination liability charges provided the bandwidth capacity of the committed FRTTP port connections meets the minimum bandwidth capacity requirement of the FRTTP.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(C) Term Discount Plan (Cont'd)(4) Termination Liability

Except as provided for in (2) and (3) preceding, termination liability charges will apply as follows:

- (a) the customer disconnects a committed TDP port connection prior to the end of the term commitment period;
- (b) the customer discontinues an existing TDP in its entirety prior to the end of the term commitment period; or
- (c) the customer converts an existing TDP with a new TDP that does not satisfy the requirements specified in (3) preceding.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(C) Term Discount Plan (Cont'd)(4) Termination Liability (Cont'd)

The termination liability charge will be equal to 50% of the total monthly recurring rates for each committed TDP port connection included in the customer's TDP for each month remaining in the term commitment period.

The following examples illustrate how the Telephone Company will calculate the applicable termination liability charges.

Example 1

A customer discontinues its existing TDP in its entirety in the 20th month of a 3 year term commitment period. The customer included three 100 Mbps committed port connections when they established their initial term plan commitment.

Using an illustrative monthly rate of \$300.00 for the 100 Mbps committed port connection, the Telephone Company would bill the customer termination liability charges totaling \$7,200.00 (i.e., \$300.00 x 50% x 3 port connections x 16 months remaining in the term commitment period).

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(C) Term Discount Plan (Cont'd)(4) Termination Liability (Cont'd)Example 2

A customer discontinues one of the four 30 Mbps committed port connections included in their TDP in the 39th month of a 5 year term commitment period. The customer included all four of these port connections when they established their initial TDP.

Using an illustrative monthly rate of \$100.00 for a 30 Mbps committed port connection, the Telephone Company would bill the customer termination liability charges totaling \$1,050.00 for the disconnection of the one port connection (i.e., \$100.00 x 50% x 21 months remaining in the term commitment period).

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(C) Term Discount Plan (Cont'd)(5) Termination Liability - Downgrades

The customer may subsequently decrease existing speed or capacity for EVPL port connections, QoS and EVC/OVC (i.e., 100 Mbps to 50 Mbps; 1 Gbps to 100 Mbps) as low as the previously configured speed without being assessed termination liability. If the customer chooses to decrease the existing speed or capacity to a lower bandwidth than what was on the previous order prior to the expiration date of the fixed period service rate plan termination liability will apply. However, if the customer commits to a new term discount plan and if the total monthly recurring revenue of the new service is equal to or greater than 115% of the remaining value of the existing term plan, no termination liability will apply.

The customer must note on the order that the speed or capacity is being downgraded.

The new service due date must be within 30 days of the due date of the disconnection of the old service, unless the installation is delayed due to Company reasons,

New minimum service period applies to the new service,

The customer agrees to pay all outstanding recurring and nonrecurring charges (these charges will not be included in the new service pricing plan); and

Applicable nonrecurring charges apply and are the charges in effect at the time the service is changed.

Example: 5 year Term Plan: Previous Order: 1000Mb UNI Port @ \$800.00 + 50Mb EVC/OVC @ \$530/ea + Gold 50MB QoS @\$470.00 = \$1,800.00. Total monthly recurring revenue over 5 years is \$108,000.00. Customer decreases from 50Mb EVC/OVC in month 24, to a 20Mb EVC/OVC @ \$420 and decreases to Silver 20MB QoS @ 51.00 along with original 1000MB UNI Port @ \$800.00 = \$1,271.00. The customer must commit the circuit to a new 5 year term for a total monthly recurring revenue over 5 years of \$76,260.00. The remaining value of the previous order (36 months) is \$64,800. The new 5 year commitment is greater than the required 115% of the remaining value (\$64,800) of the existing term plan, so no termination liability applies.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(D) Fixed Rate Term Plans

The following Fixed Rate Term Plans (FRTPs) are available for EVPL service. These plans are described in detail in 7.15.2 (D) (5), (6), (7) and (8):

Service Element Term Plan – 7 Year Term  
Bandwidth Profile Plan– Monthly and 12, 24, 36 and 60 Month Term  
High Volume Based Plan – 7 Year Term  
Low Volume Based Plan – 7 Year Term

The Service Element Term Plan is available for customers who generally have only one EVC/OVC. The Bandwidth Profile Plan is available for customers who want a pricing advantage to order multiple EVC/OVC's. The High Volume Based Plan is available for customers who purchase a minimum of 1,896 locations during the first calendar year. The Low Volume Based Plan is available for customers who purchase a minimum of 100 locations during the first calendar year.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(D) Fixed Rate Term Plans (Cont'd)

The customer may move the EVPL circuit and replace it with another EVPL circuit at a different location during the term commitment without early termination liability charges provided (1) the customer agrees to retain the new EVPL circuits at the new location for the remainder of the term commitment period; (2) the relocated EVPL circuit is of equal or greater value to the one being removed; (3) customer submits the orders for the disconnection of the existing EVPL circuit and the installation of the new EVPL circuit at the new location at the same time; and (4) the new EVPL must be ordered under the same term plan as the existing circuit being disconnected.

If the provisions set forth in the previous paragraph are not met, then termination liability charges, set forth in (3) following, will apply for the customer's failure to satisfy the term commitment period requirement for their committed port connections.

Nonrecurring charges will not apply to EVPL arrangements installed under the High Volume and Low Volume Based Plans. Monthly rates for the entire term commitment period of the FRTP will not be increased by the Company for the term commitment period for each EVPL arrangement.

At the end of the term commitment period, the customer may subscribe to a new EVPL commitment period or to month-to-month rates. If the customer does not notify the Company in writing within 60 calendar days prior to the expiration of their term commitment period, the commitment period, rates and conditions in effect at the time of expiration will automatically renew.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(D) Fixed Rate Term Plans (Cont'd)(1) Upgrades

Customers who subscribe to a term discount plan (TDP) or premier term discount plan (PTDP) under 7.2.1(l) preceding or an EVPL TDP in (C) preceding may upgrade those services to an EVPL Fixed Rate Term Plan (FRTD) without incurring termination liability charges. The time in service under the TDP, PTDP or EVPL TDP will count toward the minimum term commitment period of the FRTD. For example, if a customer upgrades their PTDP after 24 months to the 7 Year FRTD, they will have 60 months remaining in the FRTD. The customer must upgrade to a minimum circuit bandwidth capacity of 50 Mbps.

Customers may upgrade existing speed or capacity for EVPL port connections, QoS and EVC (i.e., 50 Mbps to 100 Mbps; 100 Mbps to 1 Gbps) without incurring termination liability charges and time in service under the existing EVPL service will count toward the term commitment period for the new EVPL arrangement.

(2) Downgrades

The customer may subsequently decrease existing speed or capacity for EVPL port connections, QoS and EVC/OVC (i.e., 100 Mbps to 50 Mbps; 1 Gbps to 100 Mbps) as low as the previously configured speed without being assessed termination liability. If the customer chooses to decrease the existing speed or capacity to a lower bandwidth than what was on the previous order prior to the expiration date of the FRTD, termination liability will apply. However, if the total monthly recurring revenue of the new service is equal to or greater than 115% of the remaining value of the existing term plan, no termination liability will apply.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Rate Regulations (Cont'd)7.15.2 Ethernet Virtual Private Line (Cont'd)(D) Fixed Rate Term Plans (Cont'd)(2) Downgrades (Cont'd)

The customer must note on the order that the speed or capacity is being downgraded.

The new service due date must be within 30 days of the due date of the disconnection of the old service, unless the installation is delayed due to Company reasons;

New minimum service period applies to the new service,

The customer agrees to pay all outstanding recurring and nonrecurring charges (these charges will not be included in the new service pricing plan); and

Applicable nonrecurring charges apply and are the charges in effect at the time the service is changed.

Example: 7 year High Volume Based Plan: Previous Order: 1000Mb UNI Port @ \$3,726.00 + 4 – 100Mb EVCs @ \$25/ea = \$3,826.00. Total monthly recurring revenue over 7 years is \$321,384.00. Customer decreases from 1000Mb port in month 24, to a 700Mb UNI Port @ \$3,145 + 4 – 100Mb EVCs @ \$25/ea = \$3,245.00. The customer must commit the circuit to a new 7 year term for a total monthly recurring revenue over 7 years of \$272,580. The remaining value of the previous order (60 months) is \$229,560. The new 7 year commitment is greater than the required 115% of the remaining value (\$229,560) of the existing term plan, so no termination liability applies.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Rate Regulations (Cont'd)7.15.2 Ethernet Virtual Private Line (Cont'd)(D) Fixed Rate Term Plans (Cont'd)(3) Termination Liability

Except where termination liability is waived as set forth in this section, if during the term of the Fixed Rate Term Plan (FRTTP) the customer disconnects an EVPL arrangement prior to the expiration of the 7 year minimum commitment period, termination liability charges will apply as follows:

- (a) an amount equal to 100% of monthly recurring charges for each EVPL arrangement disconnected for the months remaining for year 1 of the 7 year term commitment period of the FRTTP if any, plus;
- (b) an amount equal to 50% of monthly recurring charges for each EVPL arrangement disconnected for the months remaining in year 2 through year 5 of the 7 year term commitment period of the Fixed Rate Term Plan (FRTTP), if any, plus;
- (c) an amount equal to 20% of monthly recurring charges for each EVPL arrangement disconnected for the months remaining in year 6 through year 7 of the 7 year term commitment period of the FRTTP.

The following example illustrates how the Company will calculate the applicable termination liability charges.

## Example:

A customer discontinues an EVPL arrangement committed to the FRTTP in month 20 of the 7 year minimum term commitment period. Using an illustrative monthly recurring rate of \$1800.00 for the EVPL arrangement, the Company would bill the customer termination liability charges totaling \$44,640.00.

$$\$1800.00 @ 50\% = \$900.00 \times 40 \text{ months} = \$36,000.00$$

$$\$1800.00 @ 20\% = \$360.00 \times 24 \text{ months} = \$8,640.00$$

$$\$36,000.00 + \$8,640.00 = \$44,640.00$$

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(D) Fixed Rate Term Plans (Cont'd)(3) Termination Liability (Cont'd)

Should the customer choose to discontinue fixed period service prior to completion of the minimum service period of the Bandwidth Profile, termination charges will apply. The termination charge is 100% of the minimum billing level for the remaining months of the minimum service period, plus 40% for EVPL, of the remaining portion of the fixed period service. Should the customer choose to discontinue fixed period service after the completion of the minimum service period, termination charges equal to 40% for EVPL, of the minimum billing level for the remaining portion of the fixed period service will apply. For example, if an EVPL customer discontinues a service after completing 17 months of a 36-month term, the termination charge will be the minimum billing level for the service, multiplied by 40%, multiplied by 19 months.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(D) Fixed Rate Term Plan (Cont'd)(4) Chronic Interruption

For purposes of the Fixed Rate Term Plan (F RTP), a Chronic Interruption is defined as (1) an interruption in service due to a failure on the core portion of the EVPL network on four (4) or more separate occasions of five (5) minutes or more each, or twenty-four (24) hours or more in the aggregate, in any calendar month; or (2) both EVC/OVCs do not meet network latency, jitter or packet delivery performance standards provided in 7.15.2(E)(2) following in any three (3) separate months during any period of six (6) consecutive months.

When a customer orders EVPL under a F RTP and a Chronic Interruption occurs with respect to EVPL, the Company will provide to the customer, within ten (10) calendar days of the last interruption or within a month after any failure to meet the network latency, jitter or packet delivery performance standards, a detailed report with respect to such interruptions on the EVPL service that will include the root causes of such interruptions, remedial actions being taken to prevent similar future interruptions and timelines for the completion of such actions. The Company will provide bi-weekly written updates on the progress of such remedial actions until completed to the reasonable satisfaction of the customer. The timeline for the completion of such remedial actions will not exceed thirty (30) days. If after the completion of such remedial actions an interruption or performance failure occurs on the same EVPL service, or the Company fails to complete such remedial action within such thirty (30) day period, the customer may terminate the affected EVPL service without incurring early termination liability charges, upon providing written notice of such termination to the Company within twelve (12) months of the date of the last interruption or failure to meet the network latency, jitter or packet delivery performance standards triggering a Chronic Interruption

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(D) Fixed Rate Term Plans (Cont'd)(5) Service Element Term Plan

The Service Element Term Plan is available for EVPL service and applies to UNI and NNI port connections, EVC/OVC connections and QoS. This plan provides the customer discounted rates for the rate elements listed below.

The customer orders the EVPL Service Element Term Plan under a term commitment period of 7 years. In order for a circuit to be eligible for Service Element Term Plan pricing, the customer must commit a UNI and/or NNI port connection to the Service Element Term Plan. All EVPL circuits ordered under the Service Element Term Plan will begin in month one.

The monthly rates for EVPL service under a Service Element Term Plan are set forth in 7.15.3 following.

Although the customer commits the UNI and NNI port connections to the Service Element Term Plan, the following rate elements will receive Service Element Term Plan rates:

UNI Port Connection  
NNI Port Connection  
External NNI Connection  
EVC/OVC Connection  
QoS  
ICO NNI Trunking Arrangement

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(D) Fixed Rate Term Plans (Cont'd)(6) Bandwidth Profile Plan (BWP)

The Bandwidth Profile is the standard EVPL offering which uses the native Ethernet protocol to connect multiple enterprise locations with the customer's premises.

A monthly rate is assessed per Bandwidth Profile (BWP) subscribed to and the term plan chosen (12, 24, 36 and 60 month) as set forth in 7.15.4, following. Customers may subscribe to the following:

- a. Customer Premises Network Interface (NI) - The Company network interface is the point of interconnection between Company communications facilities and terminal equipment or other customer-provided facilities. The network interface is the point of demarcation on the customer's premises where the Company's responsibility for the provision of EVPL Service ends.
- b. EVPL Port - A nonrecurring charge applies per new EVPL Port. A nonrecurring charge for an EVPL Port will also be assessed when an electrical port is changing to an optical port or an optical port is changing to an electrical port. Exception: there will be no charge if a customer goes from one electrical port to another electrical port or from one optical port to another optical port. Customers may choose to connect to an electrical 10/100 port or an electrical or optical 1,000 Mbps or 10,000 Mbps port on the Company network.

The following options are available:

- 10 Mbps Ports: 3 Mbps, 5 Mbps, 7 Mbps and 10 Mbps
- 100 Mbps Ports: 3 Mbps, 5 Mbps, 7 Mbps, 10 Mbps, 20 Mbps, 30 Mbps, 40 Mbps, 50 Mbps, 60 Mbps, 70 Mbps, 80 Mbps, 90 Mbps and 100 Mbps
- 1,000 Mbps Ports: 10 Mbps, 20 Mbps, 30 Mbps, 40 Mbps, 50 Mbps, 60 Mbps, 70 Mbps, 80 Mbps, 90 Mbps, 100 Mbps, 200 Mbps, 300 Mbps, 400 Mbps, 500 Mbps, 600 Mbps, 700 Mbps, 800 Mbps, 900 Mbps and 1,000 Mbps
- 10,000 Mbps Ports: 2 Gbps, 3 Gbps, 4 Gbps, 5 Gbps, 6 Gbps, 7 Gbps, 8 Gbps, 9 Gbps and 10 Gbps (Available where facilities exist)

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(D) Fixed Rate Term Plans (Cont'd)(6) Bandwidth Profile Plan (BWP) (Cont'd)

- c. Network to Network (NNI) Port Connection - The Network to Network (NNI) Port Connection is the interface between distinct CENs operated by one or more customers. The NNI Port Connection is available at operating speeds of 1000 Mbps (1 Gbps) and 10000 Mbps (10 Gbps).
- d. Ethernet Virtual Connections (EVCs) or Operator Virtual Connections (OVCs) - Each EVPL Port provided by the Company will come standard with the capability to provide an Ethernet Virtual Connection (EVC) or Operator Virtual Connection (OVC). An EVC is associated with a UNI port type, an OVC is associated with an ENNI port type. Customers may order more than one EVC or OVC per port. The Company will bill a monthly EVC or OVC charge per port that the EVC or OVC terminates on, at rates set forth in 7.15.4.A.2.c., following.
- e. Quality of Service (QoS) - Quality of Service (QoS) allows customers to prioritize their traffic managed through the Company's EVPL Service. Rates are set forth in 7.15.3, following

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(D) Fixed Rate Term Plans (Cont'd)(7) High Volume Based Plan

The High Volume Based Plan is available for EVPL service and requires the customer to purchase a minimum of 1,896 locations of EVPL service from the BRIGHTSPEED LOCAL OPERATING COMPANIES during the first calendar year they participate in the plan. The High Volume Based Plan includes the UNI Bandwidth Port, NNI Port and Gold QoS Service. EVC's are a separate rate and are offered on a 7 year term. The rates in effect when a circuit is installed are the rates that apply for the entire 7 year term; rate changes that occur after the installation of a circuit do not apply to existing circuits. The rates apply only to the customer locations specified in this service guide. The High Volume Based Plan provides the customer discounted rates for the rate elements listed below.

The customer orders the EVPL High Volume Based Plan under a term commitment period of 7 years. In order for a circuit to be eligible for High Volume Based Plan pricing, the customer must commit the UNI Bandwidth Port and NNI Port to the plan. All EVPL circuits ordered under the High Volume Based Plan will begin in month one.

The monthly rates for EVPL service under the High Volume Based Plan are set forth in 7.15.4 following.

Although the customer commits the UNI Bandwidth Port and NNI Port to the High Volume Based Plan, the following rate elements will receive the High Volume Based Plan rates:

UNI Bandwidth Port (includes Gold QoS)

NNI Port (no charge)

EVC Connection

OAM EVC

ICO NNI Trunking Arrangement



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(D) Fixed Rate Term Plans (Cont'd)(8) Low Volume Based Plan

The Low Volume Based Plan is available for EVPL service and requires the customer to purchase a minimum of 100 locations of EVPL service from the BRIGHTSPEED LOCAL OPERATING COMPANIES during the first calendar year they participate in the plan. Special construction charges may apply. The Low Volume Based Plan includes the UNI Bandwidth Port, NNI Port and Gold QoS Service. EVC's are a separate rate and are offered on a 7 year term. The rates in effect when a circuit is installed are the rates that apply for the entire 7 year term, rate changes that occur after the installation of a circuit do not apply to existing circuits. The rates apply only to the customer locations specified in this service guide. The Low Volume Based Plan provides the customer discounted rates for the rate elements listed below.

The customer orders the EVPL Low Volume Based Plan under a term commitment period of 7 years. In order for a circuit to be eligible for Low Volume Based Plan pricing, the customer must commit the UNI Bandwidth Port and NNI Port to the plan. All EVPL circuits ordered under the Low Volume Based plan will begin in month one.

The monthly rates for EVPL service under the Low Volume Based Plan are set forth in 7.15.4 following.

Although the customer commits the UNI Bandwidth Port and NNI Port to the Low Volume Based Plan, the following rate elements will receive the Low Volume Based Plan rates:

UNI Bandwidth Port (includes Gold QoS)  
NNI Port  
EVC Connection  
ICO NNI Trunking Arrangement

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement

Service Level Agreements (SLAs) will be applied on a per Quality of Service (QoS) basis for Ethernet Virtual Connections (EVCs); traffic representing the different QoS (i.e., Gold, Silver or Best Effort) transported across the same EVC (measured between two NIDs) will have different SLAs. Details of the technical measurements and performance results methodologies for each commitment are provided in the Technical Publications set forth in 7.15.1(F) preceding.

In accordance with 7.15.2(E)(4) following, credits are available for missed commitments to customers who purchase EVPL. Credits only apply for portions of the service provided by the Telephone Company.

- Repair Commitment

The Repair Commitment is measured on a per occurrence basis for each EVC for all QoS. A Fault Report is produced through the Telephone Company reporting system that aids identification of potential outage durations upon which credits may be provided.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement (Cont'd)- Network Service Level Commitments

The Network Service Level Commitments are measured on the monthly performance of the EVPL network during a specific calendar month by QoS. A SLA report is produced through the Telephone Company reporting system that provides details of missed Network Service Level Commitments by QoS upon which credits may be provided upon a specific calendar month's performance results.

The Telephone Company's performance measurement data for the Repair Commitment and Network Service Level Commitments will be collected and calculated utilizing the Telephone Company's internal processes. The Telephone Company's calculation of its performance will be consistent with the Telephone Company's obligations to provide a credit for a missed performance commitment set forth following for SLA credits.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement (Cont'd)(1) SLA DefinitionsTime to Repair

Time to Repair measures the duration of the interruption on the customer's EVPL for all QoS. This measurement will require the customer to report the problem to the Telephone Company. For EVPL, an interruption is defined as a condition that renders an EVPL circuit completely unavailable for use by the customer (i.e., the network is incapable of accepting and delivering customer data).

The repair interval will start with the time the trouble ticket is created and end when the fault is remediated. The SLA measurement will be based on each individual trouble ticket for a customer's connection. Time for scheduled maintenance windows as set forth in 7.15.1 preceding does not count towards SLA threshold.

The SLA will be calculated for each individual interruption. An example of the calculation is displayed below:

Example: Based on 15 hours of interruption

Total MRC of \$1,200.00 \* 3/30 = Credit amount of \$120.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement (Cont'd)(1) SLA Definitions (Cont'd)Network Availability

Network Availability measures the percentages of time by QoS during a calendar month that the customer's service is available.

The SLA will be calculated by QoS by taking the total number of minutes in a day times the number of calendar days in a month, minus the number of minutes of interruption during the month divided by the number of minutes in a day times the number of calendar days in the month. The Telephone Company will not round up to the next nearest percent in order to meet the Network Availability service level commitment of 99.995%. Excluded from the outage time and service time are scheduled maintenance windows, set forth in 7.15.1 preceding, and the time the network was unavailable due to circumstances outside of Telephone Company's control, as set forth in 7.15.2(E)(3) following. An example of the calculation is displayed below:

Example:  $1440 * 30 = 43200$ ;  $43200 - 1200 = 42000$ ,  
 $42000 / 43200 = 97.222\%$

Total MRC of \$1,200.00 \* 3/30 = Credit amount of \$120.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement (Cont'd)(1) SLA Definitions (Cont'd)Network Latency

Network Latency measures average two-way delay (including link insertion delays, propagation delays and queuing delays in the network) in milliseconds within the EVPL access service area.

This SLA will be calculated for each QoS, except for Best Effort, by averaging the measured latency of "in-band" test frames for each eligible QoS within the EVPL network (i.e., between each pair of connections on a NID to NID basis) during a calendar month. An example of the calculation is displayed below:

Example: Monthly average was 12 ms (round-trip).

Total MRC of \$1,200 \* 3/30 = Credit amount of \$120.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement (Cont'd)(1) SLA Definitions (Cont'd)Jitter

Jitter measures the variance in frame delay (in milliseconds) between two performance test frames as measured at the ingress and egress NIDs for Gold and Silver QoS.

This SLA will be calculated for the Gold and Silver QoS by averaging the measured jitter of "in-band" test frames for each of the customer's eligible QoS queue within the EVPL (i.e., between each pair of connections) during a calendar month. An example of the calculation is displayed below:

Example: Monthly average was 5 ms.

Total MRC of \$1,200 \* 3/30 = Credit amount of \$120.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement (Cont'd)(1) SLA Definitions (Cont'd)Packet Delivery

Packet Delivery measures the percentage of packets conforming to the committed EVC bandwidth successfully delivered across the network (i.e. NID to NID) without being dropped or lost.

This SLA will be calculated for each QoS, except for Best Effort, by averaging the measured packet delivery of "in-band" test frames for eligible QoS within the EVPL network (i.e., between each pair of connections) during a calendar month. An example of the calculation is displayed below:

Example: Monthly average was 98%

Total MRC of \$1,200 \* 3/30 = Credit amount of \$120.00

- (2) The Telephone Company's Service Level Commitments for EVPL are as follows:

Time to Repair

- Best Effort QoS – Not applicable
- Silver QoS – 4 hours or less
- Gold QoS – 4 hours or less



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement (Cont'd)

## (2) (Cont'd)

Network Availability

- Best Effort QoS – Not Applicable
- Silver QoS – 99.95% or greater
- Gold QoS – 99.995% or greater

Latency (two-way)

- Best Effort QoS – Not Applicable
- Silver QoS – 20 milliseconds or less
- Gold QoS:
  - 10 ms or less (routes up to 225 one-way air miles)
  - 12 ms or less (routes of 225 to 315 one-way air miles)
  - 14 ms or less (routes of 316 to 405 one-way air miles)
  - Increase by 2 ms for every 90 one-way air miles exceeding 405 miles.

Jitter

- Best Effort QoS – Not Applicable
- Silver QoS – 4 milliseconds
- Gold QoS – 1 millisecond or less

Packet Delivery

- Best Effort QoS – Not Applicable
- Silver QoS – 99.95% or greater
- Gold QoS – 99.995% or greater

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement (Cont'd)(3) SLA Obligations

The Telephone Company SLAs are defined in (1) and (2) preceding and are in addition to the following:

- A customer must subscribe to the Gold or Silver QoS that is provided with reporting to receive credits for missed service level commitments; and
- Credits are not provided for a partial month service; and
- A customer's account must be current to receive a credit.

(a) When an SLA Credit Does Not Apply

SLA credits do not apply when any stated objective is not met because the Telephone Company does not have control over the circumstances causing the objective to be missed or when the missed objective is not caused by the Telephone Company's negligence or fault. Situations over which the Telephone Company does not have control, include, but are not limited to, the following:

- any negligence or willful misconduct on the part of the customer, its agents or contractors;

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement (Cont'd)(3) SLA Obligations (Cont'd)

## (a) (Cont'd)

- labor difficulties, governmental orders, civil commotions, acts of civil or military authority, embargoes, epidemics, declared National Emergencies, criminal actions against the Telephone Company, war, terrorist acts, riots, insurrections, fires, explosions, nuclear accidents, power blackouts, acts of God (including, but not limited to, earthquakes, floods or unusually severe weather) or other circumstances beyond the Telephone Company's control;
- when it is necessary for the Telephone Company to perform preventive maintenance and software upgrades and the EVPL service will be unavailable during the period of time when the preventive maintenance is being performed;
- the customer's premises equipment, including customer owned power and environmental conditions, located on the customer's premises; and
- unavailability of the customer's facilities caused by the customer or any third party.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement (Cont'd)(3) SLA Obligations (Cont'd)(b) When an SLA Credit Applies

When the Telephone Company has not provided a SLA credit, the customer may request a SLA credit. A customer request for a Network Service Level SLA credit must be submitted on a standard request form issued by the Telephone Company that includes the month the SLA commitment was missed, accurate identifications of the affected circuit and the observed measurement of the specific SLA that was missed. A customer request for a Repair SLA credit must be submitted on a standard request form issued by the Telephone Company that includes the month the SLA commitment was missed, accurate identification of the affected circuit and the trouble ticket number of the repair request.

The Telephone Company will investigate customer requests for any SLA credits to determine the cause of any performance failures reported by the customer. The Telephone Company will investigate the customer's request over a period of up to 45 calendar days. The 45-day period will begin when the customer makes the request for credit with the Telephone Company representative.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement (Cont'd)(4) SLA Credits for Ethernet Virtual Connections (EVCs) with Reporting

The following credits will apply when the Telephone Company misses a SLA on any single QoS as described following. A maximum of one credit for each SLA will be applied monthly per EVC for a SLA not met for any QoS that is supported by the customer's QoS profile.

Time to Repair:

- 0 to 4 hours per incident: no credit.
- Over 4 hours to 24 hours per incident: a credit equal to 3/30 of the monthly recurring charges for all the rate elements associated with the affected EVC.
- Each additional 24-hour period, per incident: credit an additional amount equal to 3/30 of the monthly recurring charges for all the rate elements associated with the affected EVPL service.

Network Availability: a credit equal to 3/30 of the monthly recurring charges for all the rate elements associated with the affected EVPL service.

Network Latency: a credit equal to 3/30 of the monthly recurring charges for all rate elements associated with the affected EVPL service.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement (Cont'd)(4) SLA Credits for Ethernet Virtual Connections (EVCs) with Reporting (Cont'd)

Jitter: a credit equal to 3/30 of the monthly recurring charges for all the rate elements associated with the affected EVPL service.

Packet Delivery: a credit equal to 3/30 of the monthly recurring charges for all rate elements associated with the affected EVPL service.

The SLA credit amount will be determined by applying the credits outlined above to the rate elements or total billed revenues specified following.

The total credits issued for all SLAs for a specific EVC during a single bill period may not exceed the total monthly recurring charges billed for all the rate elements associated with that EVPL service. Credits are not provided for partial month service.

- (a) Time to Repair Credit – The service level commitment measurement will be based on each individual trouble ticket for a customer's connection. Multiple trouble tickets on the same day for the same customer connection will only be eligible for one time to repair credit. The SLA credit will apply to the monthly recurring charges for all the rate elements associated with the affected EVPL service.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.2 Rate Regulations (Cont'd)(E) Service Level Agreement (Cont'd)(4) SLA Credits for Ethernet Virtual Connections (EVCs) with Reporting (Cont'd)

- (b) Network Availability Credit – The service level commitment measurement will be based on a specific calendar month's performance. The credit will apply for each EVC that does not meet the availability commitment. The SLA credit will apply to the monthly recurring charges for all the rate elements associated with the affected EVPL service.
- (c) Latency Credit – The service level commitment measurement will be based on a specific calendar month's performance. The credit will apply for each EVC that does not meet the latency commitment for any eligible QoS. The SLA credit will apply to the monthly recurring charges for all the rate elements associated with the affected EVPL service.
- (d) Jitter Credit – The service level commitment measurement will be based on a specific calendar month's performance. The credit will apply for each EVC that does not meet the jitter commitment for any eligible QoS. The SLA credit will apply to the monthly recurring charges for all the rate elements associated with the affected EVPL service.
- (e) Packet Delivery Credit – The service level commitment measurement will be based on a specific calendar month's performance. The credit will apply for each EVC that does not meet the packet delivery commitment for any eligible QoS. The SLA credit will apply to the monthly recurring charges for all the rate elements associated with the affected EVPL service.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges(A) User-to-Network (UNI) Port Connection(1) 10 Mbps

- Per Connection

Monthly Rates

	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>
Alabama	\$380.00	\$360.00	\$340.00
Missouri	\$380.00	\$360.00	\$340.00

Monthly Rates

	<u>3 Year</u>	<u>5 Year</u>	<u>7 Year</u>	<u>Nonrecurring Installation Charge*</u>
Alabama	\$315.00	\$275.00	\$275.00	\$1,000.00
Missouri	\$315.00	\$275.00	\$275.00	\$1,000.00

\* Nonrecurring installation charges do not apply to the 7 year term.



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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(A) User-to-Network (UNI) Port Connection (Cont'd)(2) 100 Mbps

- Per Connection

Monthly Rates

	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>
Alabama	\$380.00	\$360.00	\$340.00
Missouri	\$380.00	\$360.00	\$340.00

Monthly Rates

	<u>3 Year</u>	<u>5 Year</u>	<u>7 Year</u>	<u>Nonrecurring Installation Charge*</u>
Alabama	\$315.00	\$275.00	\$275.00	\$1,000.00
Missouri	\$315.00	\$275.00	\$275.00	\$1,000.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(A) User-to-Network (UNI) Port Connection (Cont'd)(3) 1000 Mbps

- Per Connection

Monthly Rates

	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>
Alabama	\$1,395.00	\$1,325.00	\$1,240.00
Missouri	\$1,395.00	\$1,325.00	\$1,240.00

Monthly Rates

	<u>3 Year</u>	<u>5 Year</u>	<u>7 Year</u>	Nonrecurring Installation <u>Charge*</u>
Alabama	\$1,155.00	\$1,010.00	\$960.00	\$3,000.00
Missouri	\$1,155.00	\$1,010.00	\$960.00	\$3,000.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(A) User-to-Network (UNI) Port Connection (Cont'd)(4) 10000 Mbps

- Per Connection

Monthly Rates

	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>
Alabama	\$4,180.00	\$3,980.00	\$3,720.00
Missouri	\$4,180.00	\$3,980.00	\$3,720.00

Monthly Rates

	<u>3 Year</u>	<u>5 Year</u>	<u>7 Year</u>	<u>Nonrecurring Installation Charge*</u>
Alabama	\$3,460.00	\$3,025.00	\$2,880.00	\$3,000.00
Missouri	\$3,460.00	\$3,025.00	\$2,880.00	\$3,000.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(B) Network-to-Network (NNI) Port Connection(1) 10 Mbps

- Per Connection

Monthly Rates

	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>
Alabama	\$380.00	\$360.00	\$340.00
Missouri	\$380.00	\$360.00	\$340.00

Monthly Rates

	<u>3 Year</u>	<u>5 Year</u>	<u>7Year</u>	Nonrecurring Installation <u>Charge*</u>
Alabama	\$315.00	\$275.00	\$275.00	\$1,000.00
Missouri	\$315.00	\$275.00	\$275.00	\$1,000.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(B) Network-to-Network (NNI) Port Connection (Cont'd)(2) 100 Mbps

- Per Connection

Monthly Rates

	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>
Alabama	\$380.00	\$360.00	\$340.00
Missouri	\$380.00	\$360.00	\$340.00

Monthly Rates

	<u>3 Year</u>	<u>5 Year</u>	<u>7 Year</u>	Nonrecurring Installation <u>Charge*</u>
Alabama	\$315.00	\$275.00	\$275.00	\$1,000.00
Missouri	\$315.00	\$275.00	\$275.00	\$1,000.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(B) Network-to-Network (NNI) Port Connection (Cont'd)(3) 1000 Mbps

- Per Connection

Monthly Rates

	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>
Alabama	\$1,395.00	\$1,325.00	\$1,240.00
Missouri	\$1,395.00	\$1,325.00	\$1,240.00

Monthly Rates

	<u>3 Year</u>	<u>5 Year</u>	<u>7 Year</u>	Nonrecurring Installation <u>Charge*</u>
Alabama	\$1,155.00	\$1,010.00	\$960.00	\$3,000.00
Missouri	\$1,155.00	\$1,010.00	\$960.00	\$3,000.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(B) Network-to-Network (NNI) Port Connection (Cont'd)(4) 10000 Mbps

- Per Connection

Monthly Rates

	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>
Alabama	\$4,180.00	\$3,980.00	\$3,720.00
Missouri	\$4,180.00	\$3,980.00	\$3,720.00

Monthly Rates

	<u>3 Year</u>	<u>5 Year</u>	<u>7 Year</u>	Nonrecurring Installation <u>Charge*</u>
Alabama	\$3,460.00	\$3,025.00	\$2,880.00	\$3,000.00
Missouri	\$3,460.00	\$3,025.00	\$2,880.00	\$3,000.00

\* Nonrecurring installation charges do not apply to the 7 year term.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(C) External Network-to-Network (E-NNI) Port Connection(1) 1000 Mbps

- Per Connection

	Monthly Rates			
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	
Alabama	\$1,395.00	\$1,325.00	\$1,240.00	
Missouri	\$1,395.00	\$1,325.00	\$1,240.00	
	Monthly Rates			Nonrecurring Installation Charge *
	<u>3 Year</u>	<u>5 Year</u>	<u>7 Year</u>	
Alabama	\$1,155.00	\$1,010.00	\$960.00	\$3,000.00
Missouri	\$1,155.00	\$1,010.00	\$960.00	\$3,000.00

\* Nonrecurring installation charges do not apply to the 7 year term.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(C) External Network-to-Network (E-NNI) Port Connection (Cont'd)(2) 10000 Mbps

- Per Connection

	<u>Monthly Rates</u>		
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>
Alabama	\$4,180.00	\$3,980.00	\$3,720.00
Missouri	\$4,180.00	\$3,980.00	\$3,720.00

	<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge *</u>
	<u>3 Year</u>	<u>5 Year</u>	<u>7 Year</u>	
Alabama	\$3,460.00	\$3,025.00	\$2,880.00	\$3,000.00
Missouri	\$3,460.00	\$3,025.00	\$2,880.00	\$3,000.00

\* Nonrecurring installation charges do not apply to the 7 year term.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(D) Ethernet Virtual Connection (EVC)\Operator Virtual Connection (OVC)(1) Month-to-Month

Monthly Rates	
3 Mbps	\$80.00
5 Mbps	\$175.00
7 Mbps	\$310.00
10 Mbps	\$465.00
20 Mbps	\$590.00
30 Mbps	\$630.00
40 Mbps	\$715.00
50 Mbps	\$740.00
60 Mbps	\$800.00
70 Mbps	\$925.00
80 Mbps	\$975.00
90 Mbps	\$1,050.00
100 Mbps	\$1,070.00
200 Mbps	\$1,140.00
300 Mbps	\$1,210.00
400 Mbps	\$1,280.00
500 Mbps	\$1,365.00
600 Mbps	\$1,505.00
700 Mbps	\$1,645.00
800 Mbps	\$1,755.00
900 Mbps	\$1,865.00
1000 Mbps	\$1,975.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(D) Ethernet Virtual Connection (EVC)/Operator Virtual Connection (OVC)  
(Cont'd)(2) 1 Year

Monthly Rates	
3 Mbps	\$78.00
5 Mbps	\$170.00
7 Mbps	\$295.00
10 Mbps	\$440.00
20 Mbps	\$560.00
30 Mbps	\$600.00
40 Mbps	\$680.00
50 Mbps	\$705.00
60 Mbps	\$775.00
70 Mbps	\$880.00
80 Mbps	\$950.00
90 Mbps	\$1,000.00
100 Mbps	\$1,020.00
200 Mbps	\$1,085.00
300 Mbps	\$1,150.00
400 Mbps	\$1,220.00
500 Mbps	\$1,300.00
600 Mbps	\$1,435.00
700 Mbps	\$1,565.00
800 Mbps	\$1,670.00
900 Mbps	\$1,775.00
1000 Mbps	\$1,880.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(D) Ethernet Virtual Connection (EVC) /Operator Virtual Connection (OVC)  
(Cont'd)(3) 2 Year

Monthly Rates	
3 Mbps	\$77.00
5 Mbps	\$160.00
7 Mbps	\$240.00
10 Mbps	\$325.00
20 Mbps	\$535.00
30 Mbps	\$570.00
40 Mbps	\$650.00
50 Mbps	\$670.00
60 Mbps	\$750.00
70 Mbps	\$840.00
80 Mbps	\$925.00
90 Mbps	\$950.00
100 Mbps	\$970.00
200 Mbps	\$1,030.00
300 Mbps	\$1,095.00
400 Mbps	\$1,160.00
500 Mbps	\$1,235.00
600 Mbps	\$1,365.00
700 Mbps	\$1,490.00
800 Mbps	\$1,590.00
900 Mbps	\$1,690.00
1000 Mbps	\$1,790.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(D) Ethernet Virtual Connection (EVC) /Operator Virtual Connection (OVC)  
(Cont'd)(4) 3 Year

Monthly Rates	
3 Mbps	\$75.00
5 Mbps	\$150.00
7 Mbps	\$185.00
10 Mbps	\$210.00
20 Mbps	\$505.00
30 Mbps	\$540.00
40 Mbps	\$615.00
50 Mbps	\$635.00
60 Mbps	\$725.00
70 Mbps	\$795.00
80 Mbps	\$875.00
90 Mbps	\$900.00
100 Mbps	\$915.00
200 Mbps	\$975.00
300 Mbps	\$1,035.00
400 Mbps	\$1,095.00
500 Mbps	\$1,170.00
600 Mbps	\$1,290.00
700 Mbps	\$1,410.00
800 Mbps	\$1,505.00
900 Mbps	\$1,600.00
1000 Mbps	\$1,695.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(D) Ethernet Virtual Connection (EVC) /Operator Virtual Connection (OVC)  
(Cont'd)(5) 5 Year

Monthly Rates	
3 Mbps	\$70.00
5 Mbps	\$145.00
7 Mbps	\$175.00
10 Mbps	\$200.00
20 Mbps	\$445.00
30 Mbps	\$475.00
40 Mbps	\$540.00
50 Mbps	\$555.00
60 Mbps	\$675.00
70 Mbps	\$695.00
80 Mbps	\$750.00
90 Mbps	\$775.00
100 Mbps	\$805.00
200 Mbps	\$855.00
300 Mbps	\$910.00
400 Mbps	\$960.00
500 Mbps	\$1,025.00
600 Mbps	\$1,130.00
700 Mbps	\$1,235.00
800 Mbps	\$1,320.00
900 Mbps	\$1,405.00
1000 Mbps	\$1,485.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(D) Ethernet Virtual Connection (EVC) /Operator Virtual Connection (OVC)  
(Cont'd)(6) 7 Year

Monthly Rates	
3 Mbps	\$70.00
5 Mbps	\$145.00
7 Mbps	\$175.00
10 Mbps	\$200.00
20 Mbps	\$420.00
30 Mbps	\$450.00
40 Mbps	\$510.00
50 Mbps	\$528.00
60 Mbps	\$625.00
70 Mbps	\$660.00
80 Mbps	\$700.00
90 Mbps	\$735.00
100 Mbps	\$762.00
200 Mbps	\$812.00
300 Mbps	\$862.00
400 Mbps	\$912.00
500 Mbps	\$972.00
600 Mbps	\$1,072.00
700 Mbps	\$1,172.00
800 Mbps	\$1,252.00
900 Mbps	\$1,332.00
1000 Mbps	\$1,410.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(E) Quality of Service (QoS) (Cont'd)(1) Month-to-Month

	Monthly Rates		
	<u>Gold</u>	<u>Silver</u>	<u>Best Effort</u>
3 Mbps	\$137.00	\$16.00	\$0.00
5 Mbps	\$228.00	\$27.00	\$0.00
7 Mbps	\$319.00	\$37.00	\$0.00
10 Mbps	\$455.00	\$53.00	\$0.00
20 Mbps	\$590.00	\$103.00	\$0.00
30 Mbps	\$615.00	\$135.00	\$0.00
40 Mbps	\$630.00	\$159.00	\$0.00
50 Mbps	\$660.00	\$187.00	\$0.00
60 Mbps	\$680.00	\$200.00	\$0.00
70 Mbps	\$700.00	\$229.00	\$0.00
80 Mbps	\$750.00	\$260.00	\$0.00
90 Mbps	\$775.00	\$285.00	\$0.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(E) Quality of Service (QoS) (Cont'd)(1) Month-to-Month (Cont'd)

	Monthly Rates		
	<u>Gold</u>	<u>Silver</u>	<u>Best Effort</u>
100 Mbps	\$825.00	\$317.00	\$0.00
200 Mbps	\$940.00	\$381.00	\$0.00
300 Mbps	\$1,045.00	\$439.00	\$0.00
400 Mbps	\$1,140.00	\$493.00	\$0.00
500 Mbps	\$1,475.00	\$583.00	\$0.00
600 Mbps	\$1,655.00	\$657.00	\$0.00
700 Mbps	\$1,830.00	\$731.00	\$0.00
800 Mbps	\$1,965.00	\$793.00	\$0.00
900 Mbps	\$2,095.00	\$854.00	\$0.00
1000 Mbps	\$2,225.00	\$915.00	\$0.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(E) Quality of Service (QoS) (Cont'd)(2) 1 Month

	Monthly Rates		
	<u>Gold</u>	<u>Silver</u>	<u>Best Effort</u>
3 Mbps	\$130.00	\$14.00	\$0.00
5 Mbps	\$217.00	\$23.00	\$0.00
7 Mbps	\$304.00	\$32.00	\$0.00
10 Mbps	\$434.00	\$46.00	\$0.00
20 Mbps	\$562.00	\$90.00	\$0.00
30 Mbps	\$585.00	\$118.00	\$0.00
40 Mbps	\$600.00	\$139.00	\$0.00
50 Mbps	\$629.00	\$163.00	\$0.00
60 Mbps	\$650.00	\$180.00	\$0.00
70 Mbps	\$677.00	\$200.00	\$0.00
80 Mbps	\$725.00	\$225.00	\$0.00
90 Mbps	\$750.00	\$250.00	\$0.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(E) Quality of Service (QoS)(2) 1 Year (Cont'd)

	Monthly Rates		
	<u>Gold</u>	<u>Silver</u>	<u>Best Effort</u>
100 Mbps	\$787.00	\$277.00	\$0.00
200 Mbps	\$895.00	\$333.00	\$0.00
300 Mbps	\$995.00	\$384.00	\$0.00
400 Mbps	\$1,087.00	\$431.00	\$0.00
500 Mbps	\$1,405.00	\$510.00	\$0.00
600 Mbps	\$1,575.00	\$575.00	\$0.00
700 Mbps	\$1,744.00	\$640.00	\$0.00
800 Mbps	\$1,870.00	\$694.00	\$0.00
900 Mbps	\$1,995.00	\$748.00	\$0.00
1000 Mbps	\$2,120.00	\$801.00	\$0.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

Effective: October 4, 2022

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(E) Quality of Service (QoS) (Cont'd)(3) 2 Year

	Monthly Rates		
	<u>Gold</u>	<u>Silver</u>	<u>Best Effort</u>
3 Mbps	\$124.00	\$12.00	\$0.00
5 Mbps	\$207.00	\$20.00	\$0.00
7 Mbps	\$289.00	\$27.00	\$0.00
10 Mbps	\$413.00	\$39.00	\$0.00
20 Mbps	\$534.00	\$77.00	\$0.00
30 Mbps	\$555.00	\$101.00	\$0.00
40 Mbps	\$570.00	\$119.00	\$0.00
50 Mbps	\$598.00	\$139.00	\$0.00
60 Mbps	\$615.00	\$145.00	\$0.00
70 Mbps	\$634.00	\$171.00	\$0.00
80 Mbps	\$675.00	\$195.00	\$0.00
90 Mbps	\$685.00	\$215.00	\$0.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

Effective: October 4, 2022

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(E) Quality of Service (QoS) (Cont'd)(3) 2 Year (Cont'd)

	Monthly Rates		
	<u>Gold</u>	<u>Silver</u>	<u>Best Effort</u>
100 Mbps	\$749.00	\$237.00	\$0.00
200 Mbps	\$850.00	\$285.00	\$0.00
300 Mbps	\$945.00	\$329.00	\$0.00
400 Mbps	\$1,034.00	\$369.00	\$0.00
500 Mbps	\$1,335.00	\$437.00	\$0.00
600 Mbps	\$1,497.00	\$493.00	\$0.00
700 Mbps	\$1,658.00	\$549.00	\$0.00
800 Mbps	\$1,777.00	\$595.00	\$0.00
900 Mbps	\$1,896.00	\$641.00	\$0.00
1000 Mbps	\$2,015.00	\$687.00	\$0.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

Effective: October 4, 2022

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(E) Quality of Service (QoS) (Cont'd)(4) 3 Year

	Monthly Rates		
	<u>Gold</u>	<u>Silver</u>	<u>Best Effort</u>
3 Mbps	\$117.00	\$9.00	\$0.00
5 Mbps	\$195.00	\$16.00	\$0.00
7 Mbps	\$273.00	\$22.00	\$0.00
10 Mbps	\$390.00	\$31.00	\$0.00
20 Mbps	\$505.00	\$63.00	\$0.00
30 Mbps	\$525.00	\$83.00	\$0.00
40 Mbps	\$540.00	\$99.00	\$0.00
50 Mbps	\$565.00	\$115.00	\$0.00
60 Mbps	\$580.00	\$125.00	\$0.00
70 Mbps	\$600.00	\$141.00	\$0.00
80 Mbps	\$635.00	\$160.00	\$0.00
90 Mbps	\$675.00	\$180.00	\$0.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

Effective: October 4, 2022

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(E) Quality of Service (QoS) (Cont'd)(4) 3 Year (Cont'd)

	Monthly Rates		
	<u>Gold</u>	<u>Silver</u>	<u>Best Effort</u>
100 Mbps	\$710.00	\$197.00	\$0.00
200 Mbps	\$805.00	\$237.00	\$0.00
300 Mbps	\$895.00	\$273.00	\$0.00
400 Mbps	\$980.00	\$307.00	\$0.00
500 Mbps	\$1,265.00	\$363.00	\$0.00
600 Mbps	\$1,420.00	\$410.00	\$0.00
700 Mbps	\$1,570.00	\$457.00	\$0.00
800 Mbps	\$1,685.00	\$495.00	\$0.00
900 Mbps	\$1,800.00	\$533.00	\$0.00
1000 Mbps	\$1,910.00	\$571.00	\$0.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

Effective: October 4, 2022

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(E) Quality of Service (QoS) (Cont'd)(5) 5 Year

	Monthly Rates		
	<u>Gold</u>	<u>Silver</u>	<u>Best Effort</u>
3 Mbps	\$104.00	\$8.00	\$0.00
5 Mbps	\$173.00	\$14.00	\$0.00
7 Mbps	\$242.00	\$19.00	\$0.00
10 Mbps	\$345.00	\$27.00	\$0.00
20 Mbps	\$440.00	\$57.00	\$0.00
30 Mbps	\$460.00	\$75.00	\$0.00
40 Mbps	\$475.00	\$89.00	\$0.00
50 Mbps	\$495.00	\$103.00	\$0.00
60 Mbps	\$505.00	\$119.00	\$0.00
70 Mbps	\$525.00	\$127.00	\$0.00
80 Mbps	\$550.00	\$140.00	\$0.00
90 Mbps	\$580.00	\$155.00	\$0.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(E) Quality of Service (QoS) (Cont'd)(5) 5 Year (Cont'd)

	Monthly Rates		
	<u>Gold</u>	<u>Silver</u>	<u>Best Effort</u>
100 Mbps	\$620.00	\$179.00	\$0.00
200 Mbps	\$705.00	\$215.00	\$0.00
300 Mbps	\$785.00	\$247.00	\$0.00
400 Mbps	\$855.00	\$279.00	\$0.00
500 Mbps	\$1,110.00	\$329.00	\$0.00
600 Mbps	\$1,245.00	\$372.00	\$0.00
700 Mbps	\$1,375.00	\$415.00	\$0.00
800 Mbps	\$1,475.00	\$450.00	\$0.00
900 Mbps	\$1,575.00	\$485.00	\$0.00
1000 Mbps	\$1,670.00	\$519.00	\$0.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

Effective: October 4, 2022

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(E) Quality of Service (QoS) (Cont'd)(6) 7 Year

	Monthly Rates		
	<u>Gold</u>	<u>Silver</u>	<u>Best Effort</u>
3 Mbps	\$97.00	\$8.00	\$0.00
5 Mbps	\$162.00	\$14.00	\$0.00
7 Mbps	\$227.00	\$19.00	\$0.00
10 Mbps	\$324.00	\$27.00	\$0.00
20 Mbps	\$419.00	\$57.00	\$0.00
30 Mbps	\$437.00	\$75.00	\$0.00
40 Mbps	\$450.00	\$89.00	\$0.00
50 Mbps	\$468.00	\$103.00	\$0.00
60 Mbps	\$475.00	\$110.00	\$0.00
70 Mbps	\$500.00	\$127.00	\$0.00
80 Mbps	\$515.00	\$130.00	\$0.00
90 Mbps	\$550.00	\$140.00	\$0.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(E) Quality of Service (QoS) (Cont'd)(6) 7 Year (Cont'd)

	Monthly Rates		
	<u>Gold</u>	<u>Silver</u>	<u>Best Effort</u>
100 Mbps	\$589.00	\$179.00	\$0.00
200 Mbps	\$669.00	\$215.00	\$0.00
300 Mbps	\$744.00	\$247.00	\$0.00
400 Mbps	\$814.00	\$279.00	\$0.00
500 Mbps	\$1,053.00	\$329.00	\$0.00
600 Mbps	\$1,179.00	\$372.00	\$0.00
700 Mbps	\$1,305.00	\$415.00	\$0.00
800 Mbps	\$1,400.00	\$450.00	\$0.00
900 Mbps	\$1,495.00	\$485.00	\$0.00
1000 Mbps	\$1,589.00	\$519.00	\$0.00

Rates are for both Alabama and Missouri exchanges listed within this Interstate Service Guide.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(F) EVPL Reconfiguration

- Per EVC or QoS Established or Reconfigured

Nonrecurring  
Charge\*Alabama  
Missouri\$400.00  
\$400.00

\* The EVPL Reconfiguration charge does not apply to EVPL arrangements ordered under a 7 year term commitment.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC)(1) 3 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$555.00	\$460.00	\$380.00	\$330.00	\$400.00
Missouri	\$555.00	\$460.00	\$380.00	\$330.00	\$400.00

\* Nonrecurring installation charges do not apply to the 7 year term.

Effective: October 4, 2022

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(1) 3 Mbps (Cont'd)

- Per Connection

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Monthly Rates

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	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$290.00	\$250.00
Missouri	\$290.00	\$250.00

\* Nonrecurring installation charges do not apply to the 7 year term.

Effective: October 4, 2022

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(2) 5 Mbps

- Per Connection

	<u>Monthly Rates</u>				<u>Nonrecurring Installation Charge*</u>
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$625.00	\$520.00	\$430.00	\$365.00	\$460.00
Missouri	\$625.00	\$520.00	\$430.00	\$365.00	\$460.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(2) 5 Mbps (Cont'd)

- Per Connection

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Monthly Rates

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	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$315.00	\$280.00
Missouri	\$315.00	\$280.00

\* Nonrecurring installation charges do not apply to the 7 year term.



Effective: October 4, 2022

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(3) 7 Mbps

- Per Connection

	<u>Monthly Rates</u>				<u>Nonrecurring Installation Charge*</u>
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$715.00	\$590.00	\$485.00	\$415.00	\$530.00
Missouri	\$715.00	\$590.00	\$485.00	\$415.00	\$530.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(3) 7 Mbps (Cont'd)

- Per Connection

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Monthly Rates

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	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$360.00	\$310.00
Missouri	\$360.00	\$310.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(1) 10 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$820.00	\$680.00	\$565.00	\$485.00	\$605.00
Missouri	\$820.00	\$680.00	\$565.00	\$485.00	\$605.00

	<u>Monthly Rates</u>	
	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$415.00	\$360.00
Missouri	\$415.00	\$360.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(2) 20 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$970.00	\$805.00	\$670.00	\$580.00	\$690.00
Missouri	\$970.00	\$805.00	\$670.00	\$580.00	\$690.00

	<u>Monthly Rates</u>	
	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$495.00	\$430.00
Missouri	\$495.00	\$430.00

\* Nonrecurring installation charges do not apply to the 7 year term.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(3) 50 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$1,220.00	\$1,015.00	\$840.00	\$725.00	\$805.00
Missouri	\$1,220.00	\$1,015.00	\$840.00	\$725.00	\$805.00

	<u>Monthly Rates</u>	
	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$625.00	\$540.00
Missouri	\$625.00	\$540.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(4) 100 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$1,625.00	\$1,350.00	\$1,120.00	\$970.00	\$920.00
Missouri	\$1,625.00	\$1,350.00	\$1,120.00	\$970.00	\$920.00

	<u>Monthly Rates</u>	
	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$830.00	\$720.00
Missouri	\$830.00	\$720.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(5) 200 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$2,760.00	\$2,300.00	\$1,910.00	\$1,660.00	\$1,380.00
Missouri	\$2,760.00	\$2,300.00	\$1,910.00	\$1,660.00	\$1,380.00

	<u>Monthly Rates</u>	
	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$1,415.00	\$1,220.00
Missouri	\$1,415.00	\$1,220.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(6) 300 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$3,925.00	\$3,270.00	\$2,715.00	\$2,360.00	\$1,380.00
Missouri	\$3,925.00	\$3,270.00	\$2,715.00	\$2,360.00	\$1,380.00

	<u>Monthly Rates</u>	
	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$2,010.00	\$1,730.00
Missouri	\$2,010.00	\$1,730.00

\* Nonrecurring installation charges do not apply to the 7 year term.



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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(7) 400 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$5,970.00	\$4,970.00	\$4,135.00	\$3,595.00	\$1,380.00
Missouri	\$5,970.00	\$4,970.00	\$4,135.00	\$3,595.00	\$1,380.00

	<u>Monthly Rates</u>	
	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$3,060.00	\$2,640.00
Missouri	\$3,060.00	\$2,640.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(8) 500 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$6,685.00	\$5,570.00	\$4,635.00	\$4,025.00	\$1,380.00
Missouri	\$6,685.00	\$5,570.00	\$4,635.00	\$4,025.00	\$1,380.00

	<u>Monthly Rates</u>	
	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$3,430.00	\$2,950.00
Missouri	\$3,430.00	\$2,950.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(9) 600 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$8,005.00	\$6,670.00	\$5,555.00	\$4,830.00	\$1,380.00
Missouri	\$8,005.00	\$6,670.00	\$5,555.00	\$4,830.00	\$1,380.00

	<u>Monthly Rates</u>	
	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$4,110.00	\$3,540.00
Missouri	\$4,110.00	\$3,540.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(10) 700 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$8,065.00	\$6,720.00	\$5,750.00	\$5,085.00	\$1,380.00
Missouri	\$8,065.00	\$6,720.00	\$5,750.00	\$5,085.00	\$1,380.00

	<u>Monthly Rates</u>	
	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$4,370.00	\$3,760.00
Missouri	\$4,370.00	\$3,760.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(11) 800 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$8,280.00	\$6,900.00	\$5,915.00	\$5,225.00	\$1,380.00
Missouri	\$8,280.00	\$6,900.00	\$5,915.00	\$5,225.00	\$1,380.00

	<u>Monthly Rates</u>	
	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$4,485.00	\$3,860.00
Missouri	\$4,485.00	\$3,860.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(12) 900 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$8,510.00	\$7,085.00	\$6,065.00	\$5,360.00	\$1,380.00
Missouri	\$8,510.00	\$7,085.00	\$6,065.00	\$5,360.00	\$1,380.00

	<u>Monthly Rates</u>	
	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$4,600.00	\$3,960.00
Missouri	\$4,600.00	\$3,960.00

\* Nonrecurring installation charges do not apply to the 7 year term.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.3 Rates and Charges (Cont'd)(G) ICO NNI Trunk Connection (per EVC) (Cont'd)(13) 1000 Mbps

- Per Connection

	<u>Monthly Rates</u>				Nonrecurring Installation Charge*
	<u>Monthly</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	
Alabama	\$9,110.00	\$7,590.00	\$6,325.00	\$5,555.00	\$1,380.00
Missouri	\$9,110.00	\$7,590.00	\$6,325.00	\$5,555.00	\$1,380.00

	<u>Monthly Rates</u>	
	<u>5 Year</u>	<u>7 Year *</u>
Alabama	\$4,715.00	\$4,060.00
Missouri	\$4,715.00	\$4,060.00

\* Nonrecurring installation charges do not apply to the 7 year term.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.4 Rates and Charges (Cont'd)(A) Ethernet Virtual Private Line Fixed Rate Term Plans(1) Service Element Term Plan – See 7 year terms in Section 7.15.3.(2) Bandwidth Profile Plan [1](a) EVPL Port

		<u>Non-Recurring Charge</u>
i.	10/100 Mbps, Per EVPL Port	
	• Monthly	\$ 600.00
	• 12 Months	\$ 600.00
	• 24 Months	\$ 600.00
	• 36 Months	\$ 600.00
	• 60 Months	\$ 600.00
ii.	1,000 Mbps, Per EVPL Port	
	• Monthly	\$ 1,200.00
	• 12 Months	\$ 1,200.00
	• 24 Months	\$ 1,200.00
	• 36 Months	\$ 1,200.00
	• 60 Months	\$ 1,200.00
iii.	10,000 Mbps, Per EVPL Port	
	• Monthly	\$ 3,000.00
	• 12 Months	\$ 3,000.00
	• 24 Months	\$ 3,000.00
	• 36 Months	\$ 3,000.00
	• 60 Months	\$ 3,000.00

[1] For the Bandwidth Profile, Section 7.15.4.A.2, the rates and charges in this section apply to all special access customers served by the Company.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.4 Rates and Charges (Cont'd)(A) Ethernet Virtual Private Line Fixed Rate Term Plans(2) Bandwidth Profile Plan [1] (Cont'd)(b) Customer Premises Bandwidthi. Per 10/100 Mbps Port

	Monthly Rates				
	<u>Monthly</u>	<u>12 Month</u>	<u>24 Month</u>	<u>36 Month</u>	<u>60 Month</u>
3 Bandwidth	\$374.00	\$352.00	\$330.00	\$307.00	\$285.00
5 Bandwidth	\$462.00	\$435.00	\$407.00	\$379.00	\$352.00
7 Bandwidth	\$589.00	\$554.00	\$519.00	\$483.00	\$448.00

ii. Per 10/100/1,000 Mbps Port

10 Bandwidth	\$757.00	\$712.00	\$667.00	\$621.00	\$576.00
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iii. Per 100/1,000 Mbps Port

20 Bandwidth	\$967.00	\$918.70	\$875.00	\$822.00	\$773.60
30 Bandwidth	\$1,034.00	\$982.30	\$935.00	\$878.90	\$827.20
40 Bandwidth	\$1,101.00	\$1,046.00	\$995.00	\$935.00	\$880.80
50 Bandwidth	\$1,168.00	\$1,109.60	\$1,055.00	\$992.80	\$934.40
60 Bandwidth	\$1,235.00	\$1,173.30	\$1,115.00	\$1,049.80	\$988.00
70 Bandwidth	\$1,302.00	\$1,236.90	\$1,175.00	\$1,106.70	\$1,041.60
80 Bandwidth	\$1,369.00	\$1,300.60	\$1,235.00	\$1,163.70	\$1,095.20
90 Bandwidth	\$1,436.00	\$1,364.20	\$1,295.00	\$1,220.60	\$1,148.80
100 Bandwidth	\$1,500.00	\$1,425.00	\$1,355.00	\$1,275.00	\$1,200.00

[1] For the Bandwidth Profile, Section 7.15.4.A.2, the rates and charges in this section apply to all special access customers served by the Company.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.5 Rates and Charges (Cont'd)(B) Ethernet Virtual Private Line Fixed Rate Term Plans(2) Bandwidth Profile Plan [1] (Cont'd)(b) Customer Premises Bandwidth (Cont'd)iv. Per 1,000 Mbps Port

	Monthly Rates				
	<u>Monthly</u>	<u>12 Month</u>	<u>24 Month</u>	<u>36 Month</u>	<u>60 Month</u>
100 Bandwidth	\$1,500.00	\$1,425.00	\$1,355.00	\$1,275.00	\$1,200.00
200 Bandwidth	\$2,089.00	\$1,984.60	\$1,885.00	\$1,775.70	\$1,671.20
300 Bandwidth	\$2,678.00	\$2,544.10	\$2,415.00	\$2,276.30	\$2,142.40
400 Bandwidth	\$3,267.00	\$3,103.70	\$2,945.00	\$2,777.00	\$2,613.60
500 Bandwidth	\$3,856.00	\$3,663.20	\$3,475.00	\$3,277.60	\$3,084.80
600 Bandwidth	\$4,445.00	\$4,222.80	\$4,005.00	\$3,778.30	\$3,556.00
700 Bandwidth	\$5,034.00	\$4,782.30	\$4,535.00	\$4,278.90	\$4,027.20
800 Bandwidth	\$5,623.00	\$5,341.90	\$5,065.00	\$4,779.60	\$4,498.40
900 Bandwidth	\$6,212.00	\$5,901.40	\$5,595.00	\$5,280.20	\$4,969.60
1,000 Bandwidth	\$6,800.00	\$6,460.00	\$6,125.00	\$5,780.20	\$5,440.00

v. Per 10,000 Mbps Port \*

	<u>Monthly</u>
2 Gbps Bandwidth	\$7,191.00
3 Gbps Bandwidth	\$7,581.00
4 Gbps Bandwidth	\$7,972.00
5 Gbps Bandwidth	\$8,362.00
6 Gbps Bandwidth	\$8,753.00
7 Gbps Bandwidth	\$9,143.00
8 Gbps Bandwidth	\$9,534.00
9 Gbps Bandwidth	\$9,924.00
10 Gbps Bandwidth	\$10,316.00

\* Available where facilities exist.

[1] For the Bandwidth Profile, Section 7.15.4.A.2, the rates and charges in this section apply to all special access customers served by the Company.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.4 Rates and Charges (Cont'd)(A) Ethernet Virtual Private Line Fixed Rate Term Plans (Cont'd)(2) Bandwidth Profile Plan [1] (Cont'd)(c). Ethernet Virtual Connection (EVC) / Operator Virtual Connection (OVC) [2]

	<u>Rate</u>
Monthly Per EVC/OVC Per Port	\$50.00

(d) Network to Network (NNI) Port Connection

	<u>Monthly Rate</u>
i.. 1,000 Mbps	
• Monthly	\$ 3,585.74
• 12 Months	\$ 3,414.99
• 24 Months	\$ 3,252.38
• 36 Months	\$ 3,097.50
• 60 Months	\$ 2,950.00
ii.. 10,000 Mbps	
• Monthly	\$ 10,757.23
• 12 Months	\$ 10,244.98
• 24 Months	\$ 9,757.13
• 36 Months	\$ 9,292.50
• 60 Months	\$ 8,850.00

(e) Quality of Service (QoS)

See QoS rates in Section 7.15.3

[1] For the Bandwidth Profile, Section 7.15.4.A.2, the rates and charges in this section apply to all special access customers served by the Company.

[2] Rates for the Ethernet Virtual Connection (EVC)/Operator Virtual Connection (OVC) and Network to Network (NNI) Port Connection displayed on this page are available for the Bandwidth Profile only.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.4 Rates and Charges (Cont'd)(A) Ethernet Virtual Private Line Fixed Rate Term Plans (Cont'd)(3) High Volume Based Plan (Cont'd)(a) 7 Year – UNI

		Monthly Rates				
		100 Mbps	200 Mbps	300 Mbps	400 Mbps	500 Mbps
Alabama		\$1,408.00	\$1,940.00	\$2,240.00	\$2,530.00	\$2,755.00
Missouri		\$1,408.00	\$1,940.00	\$2,240.00	\$2,530.00	\$2,755.00

		Monthly Rates				
		600 Mbps	700 Mbps	800 Mbps	900 Mbps	1000 Mbps
Alabama		\$2,945.00	\$3,145.00	\$3,311.00	\$3,536.00	\$3,726.00
Missouri		\$2,945.00	\$3,145.00	\$3,311.00	\$3,536.00	\$3,726.00

		Monthly Rates		
		1400 Mbps		2000 Mbps
Alabama		\$4,256.00		\$5,051.00
Missouri		\$4,256.00		\$5,051.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.4 Rates and Charges (Cont'd)(A) Ethernet Virtual Private Line Fixed Rate Term Plans (Cont'd)(3) High Volume Based Plan (Cont'd)(b) 7 Year – NNI

	Monthly Rates	
	<u>1000 Mbps</u>	<u>10 Gbps</u>
Alabama	\$0.00	\$ 0.00
Missouri	\$0.00	\$2,880.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.4 Rates and Charges (Cont'd)(A) Ethernet Virtual Private Line Fixed Rate Term Plans (Cont'd)(3) High Volume Based Plan (Cont'd)(c) 7 Year – OAM EVCMonthly Rates

5

Mbps

Alabama

\$25.00

Missouri

\$25.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.4 Rates and Charges (Cont'd)(A) Ethernet Virtual Private Line Fixed Rate Term Plans (Cont'd)(3) High Volume Based Plan (Cont'd)(d) 7 Year –Additional EVC Connection ChargeMonthly Rates

Alabama	\$25.00
Missouri	\$25.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Ethernet Virtual Private Line (Cont'd)7.15.4 Rates and Charges (Cont'd)(A) Ethernet Virtual Private Line Fixed Rate Term Plans (Cont'd)(3) High Volume Based Plan (Cont'd)(e) ICO NNI Trunk Connection

- Per Connection

	Monthly Rates	
	1000 Mbps (1 Gbps)	10000 Mbps (10 Gbps)
Alabama	\$0.00	\$0.00
Missouri	\$0.00	\$0.00



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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Rates and Charges (Cont'd)7.15.4 Ethernet Virtual Private Line (Cont'd)(A) Ethernet Virtual Private Line Fixed Rate Term Plans (Cont'd)(4) Low Volume Based Plan(a) 7 Year - UNI

	Monthly Rates					
	<u>100 Mbps</u>	<u>200 Mbps</u>	<u>400 Mbps</u>	<u>600 Mbps</u>	<u>800 Mbps</u>	<u>1000 Mbps</u>
Alabama	\$908.00	\$1,585.00	\$2,250.00	\$2,615.00	\$2,781.00	\$2,965.00
Missouri	\$908.00	\$1,585.00	\$2,250.00	\$2,615.00	\$2,781.00	\$2,965.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Rates and Charges (Cont'd)7.15.4 Ethernet Virtual Private Line (Cont'd)(A) Ethernet Virtual Private Line Fixed Rate Term Plans (Cont'd)(4) Low Volume Based Plan (Cont'd)(b) 7 Year - NNI

	Monthly Rates	
	<u>1000 Mbps</u> <u>(1 Gbps)</u>	<u>10000 Mbps</u> <u>(10 Gbps)</u>
Alabama	\$960.00	\$2,880.00
Missouri	\$960.00	\$2,880.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Rates and Charges (Cont'd)7.15.4 Ethernet Virtual Private Line (Cont'd)(A) Ethernet Virtual Private Line Fixed Rate Term Plans (Cont'd)(4) Low Volume Based Plan (Cont'd)(c) 7 Year - Additional EVC Connection ChargeMonthly Rates

Alabama	\$250.00
Missouri	\$250.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.15 Rates and Charges (Cont'd)7.15.4 Ethernet Virtual Private Line (Cont'd)(A) Ethernet Virtual Private Line Fixed Rate Term Plans (Cont'd)(4) Low Volume Based Plan (Cont'd)(d) ICO NNI Trunk Connection

- Per Connection

	Monthly Rates	
	1000 Mbps (1 Gbps)	10000 Mbps (10 Gbps)
Alabama	\$960.00	\$2880.00
Missouri	\$960.00	\$2880.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS)7.16.1 Basic Service Description

Optical Wavelength Service (OWS) is a high speed data transport service that provides point-to-point transmissions of data communications that customers deliver to the Telephone Company utilizing shared Dense Wave Division Multiplexing (DWDM) technology available at speeds of: 1 Gbps, 2.5 Gbps, 10 Gbps, 40 Gbps and 100 Gbps.

OWS is provided on a month-to-month basis or for periods of one, three or five years. When a customer orders OWS, the customer and the Telephone Company will work cooperatively to plan, engineer, provision and manage the OWS circuits. OWS is only available where facilities and operating conditions exist.

.There are two basic rate categories which apply to Special Access Service:

- Channel Terminations
- Channel Mileage

(A) OWS Channel Termination

OWS channel terminations may be used to connect the following:

- a customer designated premises to the serving wire center of that premise.

The OWS channel termination rate element may vary based on distance. The mileage used to determine the monthly rate for channel terminations located outside a Telephone Company Central Office is the airline distance between the customer's designated premises and the Telephone Company serving wire center. The mileage measurement is determined by utilizing exchange maps and mileage tables located in designated Telephone Company offices for such purposes

OWS channel terminations provided to a customer's designated premises will be installed in a single, common space under Telephone Company control. One Channel Termination charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are collocated in a Telephone Company building. An OWS channel termination may not be split between premises or terminated in multiple locations within a premise. The customer must provide suitable floor space, environmental controls and non-switched AC power to support the OWS channel termination at the customer's premises location. The Channel Termination is the interface located at the Central Office that allows OWS to connect to the following Company services: SONET, ET, or EVPL.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS)7.16.1 Basic Service Description(B) OWS Channel Mileage

OWS channel mileage provides transport between two Telephone Company serving wire centers. Air mileage is measured using V&H coordinates between the Telephone Company serving wire centers. The OWS channel mileage rates are made up of the Channel Mileage Facility (per mile) rate and the Channel Mileage Termination (fixed) rate.

Available in the following interfaces:

- 10 Gbit LAN Channel
- 10 Gbit WAN Channel
- Gbit Ethernet Channel
- SONET Channel (OC3, OC12, OC48, OC192)
- 10.709 Gbit OTU2 Channel
- 2.666 Gbit OTU1 Channel
- 111.810 Gbit OTU4 Channel
- 100GbE Ethernet Channel
- 43.018 Gbit OTU3 Channel

7.16.2 Rate Regulations

The rates and charges for OWS service are set forth in the following and are in addition to any applicable rates and charges set forth in any other sections of this service guide. Nonrecurring charges and monthly recurring rates applicable for OWS service are billed in advance.

(A) Monthly Rates

Monthly rates are recurring rates 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.

(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are: installation of service and service rearrangements. These charges are in addition to the Access Order Charge as specified in 5.3 preceding.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.2 Rate Regulations (Cont'd)(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set for each channel type as a nonrecurring charge for the Channel Termination.

(2) Service Rearrangements

Service rearrangements are changes to existing (installed) services which may be administrative only in nature, as set forth following, or that involve actual physical change to the service. .

Changes to pending orders are set forth in 5.3 preceding.

Changes in the physical location of the point of termination or customer designated premises are moves as set forth following.

Changes in the type of Service or Channel Termination which result in a change of the minimum period requirement will be treated as a discontinuance of the service and an installation of a new service.

Changes in ownership or transfer of responsibility from one customer to another will be treated as a discontinuance of the service and an installation of a new service. In the event the change in ownership or transfer of responsibility is as set forth in 2.1.2(A) preceding where there is no change in facilities or arrangements, the change will be treated as an administrative change.

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

- Change of customer name;
- Change of customer or customer's end user premises address when the change of address is not a result of physical relocation of equipment;
- Change in billing data (name, address, or contact name or telephone number);
- Change of agency authorization;
- 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; and
- Change of jurisdiction.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.2 Rate Regulations (Cont'd)

All other service rearrangements will be charged as follows:

- If the change involves the addition of other customer designated premises to an existing service, the nonrecurring charge for the channel termination rate element will apply. The charge(s) will apply only for the location(s) that is being added. The charge(s) will be in addition to an Access Order Charge as set forth in 5.3 preceding.

Moves

Regulations for Moves for OWS are set forth in Section 7.2.1, preceding.



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.2 Rate Regulations (Cont'd)Pricing Plans

OWS service is available on a month-to-month basis or for a period of one, three or five years. All OWS arrangements will begin in month one. If the customer requests that the service be disconnected prior to completion of the minimum service period of 12 months, termination liability charges equal to 100% of the total monthly recurring charges for the remaining months of the minimum service period plus 70% of the total monthly recurring charges for the remaining months of the term. Any termination after the minimum service period of 12 months termination liability charges equal to 70% of the remaining months of the term will apply. For example, a customer disconnecting in the 12th month of a 3 year plan will be charged 70% of the remaining 24 months of billing. The Federal Government and its authorized agents are exempt from the 50% termination liability penalty charge if service is discontinued prior to the expiration of the one, three or five year minimum commitment period.

Additionally, customers may disconnect OWS service, without penalty, should the total monthly recurring rates associated with OWS service increase by 10% or more at any one time. The customer must notify the Telephone Company in writing within 90 days after the effective date of the rate increase if they elect to discontinue service. Rate decreases will automatically be applied to the monthly recurring rates for the remainder of the service

If the customer does not specify renewal terms in writing 90 days prior to the expiration of the one, three or five year period, the commitment period and OWS service rates in effect at the time of expiration will automatically renew. Alternatively, 90 days prior to the expiration of the one, three or five year period the customer may specify in writing their intent to continue use of the services under month-to-month rates. The customer can terminate OWS service at the end of the minimum commitment period with no penalty or obligation to continue the service. Further, if the customer notifies the Telephone Company in writing 90 days prior to the expiration date of their minimum commitment period with their intent to not renew their OWS service, the customer will have six (6) months after the expiration date to submit their disconnect order(s). If the customer fails to submit their disconnect order(s), by the end of the six (6) month period, the commitment period in effect at the time of the original expiration period will automatically renew at the current service guide rates. If the customer submits their disconnect orders(s) after the six (6) month period, termination liability charges will apply. Termination liability charges will be calculated at 50% of the monthly recurring charges for the remaining months of the commitment period up to a maximum of twelve (12) months. Time from the expiration of the original commitment period until the disconnect order(s) are received will apply for calculation of the termination liability charges.

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.2 Rate Regulations (Cont'd)Upgrades

Customers may upgrade OWS without incurring termination liability charges under the following circumstances:

- (1) The order for the disconnect of the existing OWS and the order for the upgraded OWS must be received at the same time.
- (2) The new OWS is provided between the same customer and central office locations as the discontinued service.
- (3) The service period of the new OWS is equal to or greater than the service period of the existing OWS service.

Termination Liability – Downgrades

If the customer chooses to decrease the existing speed or capacity to a lower bandwidth than what was on the previous order prior to the expiration date of the fixed period service rate plan, termination liability will apply. However, if the customer commits to a new term discount plan and if the total monthly recurring revenue of the new service is equal to or greater than 115% of the remaining value of the existing term plan, no termination liability will apply.

The customer must note on the order that the speed or capacity is being downgraded.

The new service due date must be within 30 days of the due date of the disconnection of the old service, unless the installation is delayed due to Company reasons.

New minimum service period applies to the new service,

The customer agrees to pay all outstanding recurring and nonrecurring charges (these charges will not be included in the new service pricing plan); and

Applicable nonrecurring charges apply and are the charges in effect at the time the service is changed

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.16 Optical Wavelength Service (OWS) (Cont'd)

7.16.2 Rate Regulations (Cont'd)

Service Guarantee Regulations are set forth in Section 2.4.4, preceding.

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges(A) Channel Termination(1) Month-to Month

- OC3
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$240.00	\$2,200.00	\$2,530.00	\$7,500.00

- OC12
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$420.00	\$2,565.00	\$2,950.00	\$7,500.00

- OC48
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$900.00	\$4,740.00	\$5,455.00	\$7,500.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(1) Month-to Month (Cont'd)

- OC192
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$1,800.00	\$5,940.00	\$6,835.00	\$7,500.00

- Gigabit Ethernet
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$600.00	\$3,660.00	\$4,215.00	\$7,500.00

- 10 G LAN
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$1,800.00	\$5,940.00	\$6,835.00	\$7,500.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(1) Month-to Month (Cont'd)

- 10 G WAN
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$1,800.00	\$5,940.00	\$6,835.00	\$7,500.00

- OTU1
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$900.00	\$4,740.00	\$5,455.00	\$7,500.00

- OTU2
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$1,800.00	\$5,940.00	\$6,835.00	\$7,500.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(1) Month-to Month (Cont'd)

- OTU3
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$4,500.00	\$19,650.00	\$22,605.00	\$7,500.00

- 100 GB Ethernet
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$9,000.00	\$29,700.00	\$34,160.00	\$7,500.00

- OTU4
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$9,000.00	\$29,700.00	\$34,160.00	\$7,500.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(2) 1 Year

- OC3
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$200.00	\$1,830.00	\$2,105.00	\$3,750.00

- OC12
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$350.00	\$2,135.00	\$2,455.00	\$3,750.00

- OC48
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$750.00	\$3,950.00	\$4,545.00	\$3,750.00



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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(2) 1 Year (Cont'd)

- OC192
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$1,500.00	\$4,950.00	\$5,695.00	\$3,750.00

- Gigabit Ethernet
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$500.00	\$3,050.00	\$3,510.00	\$3,750.00

- 10 G LAN
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$1,500.00	\$4,950.00	\$5,695.00	\$3,750.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(2) 1 Year (Cont'd)

- 10 GB WAN
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$1,500.00	\$4,950.00	\$5,695.00	\$3,750.00

- OTU1
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$750.00	\$3,950.00	\$4,545.00	\$3,750.00

- OTU2
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$1,500.00	\$4,950.00	\$5,695.00	\$3,750.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(2) 1 Year (Cont'd)

- OTU3
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$3,750.00	\$16,375.00	\$18,835.00	\$3,750.00

- 100 GB Ethernet
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$7,500.00	\$24,750.00	\$28,465.00	\$3,750.00

- OTU4
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$7,500.00	\$24,750.00	\$28,465.00	\$3,750.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(3) 3 Year- OC3

## - Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$145.00	\$1,335.00	\$1,535.00	\$1,875.00

- OC12

## - Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$255.00	\$1,555.00	\$1,790.00	\$1,875.00

- OC48

## - Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$545.00	\$2,880.00	\$3,315.00	\$1,875.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(3) 3 Year (Cont'd)

- OC192
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$1,085.00	\$3,600.00	\$4,140.00	\$1,875.00

- Gigabit Ethernet
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$365.00	\$2,220.00	\$2,555.00	\$1,875.00

- 10 G LAN
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$1,085.00	\$3,600.00	\$4,140.00	\$1,875.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(3) 3 Year (Cont'd)

- 10 G WAN
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$1,085.00	\$3,600.00	\$4,140.00	\$1,875.00

- OTU1
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$545.00	\$2,880.00	\$3,315.00	\$1,875.00

- OTU2
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$1,085.00	\$3,600.00	\$4,140.00	\$1,875.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(3) 3 Year (Cont'd)

- OTU3
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$2,710.00	\$11,860.00	\$13,640.00	\$1,875.00

- 100 Gb Ethernet
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$5,420.00	\$17,885.00	\$20,565.00	\$1,875.00

- OTU4
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$5,420.00	\$17,885.00	\$20,565.00	\$1,875.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(4) 5 Year

- OC3
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$125.00	\$1,185.00	\$1,280.00	\$0.00

- OC12
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$215.00	\$1,300.00	\$1,495.00	\$0.00

- OC48
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$465.00	\$2,400.00	\$2,760.00	\$0.00



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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(4) 5 Year (Cont'd)

- OC192
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$925.00	\$2,995.00	\$3,445.00	\$0.00

- Gigabit Ethernet
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$310.00	\$1,855.00	\$2,135.00	\$0.00

- 10 G LAN
- Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$925.00	\$2,995.00	\$3,445.00	\$0.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(4) 5 Year (Cont'd)- 10 G WAN

## - Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$925.00	\$2,995.00	\$3,445.00	\$0.00

- OTU1

## - Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$465.00	\$2,400.00	\$2,760.00	\$0.00

- OTU2

## - Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$925.00	\$2,995.00	\$3,445.00	\$0.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(A) Channel Termination (Cont'd)(4) 5 Year (Cont'd)- OTU3

## - Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$2,305.00	\$9,870.00	\$11,355.00	\$0.00

- 100 Gb Ethernet

## - Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$4,605.00	\$14,310.00	\$16,455.00	\$0.00

- OTU4

## - Per Connection

<u>Monthly Rates</u>			<u>Nonrecurring Installation Charge</u>
<u>Within CO</u>	<u>0-3 Miles</u>	<u>Over 3 Miles</u>	
\$4,605.00	\$14,310.00	\$16,455.00	\$0.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage(1) Month-to-Month- OC3

---

Monthly Rates

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<u>Termination</u>	<u>Facility (Per Mile)</u>
\$240.00	\$5.00

- OC12

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Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$420.00	\$10.00

- OC48

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$900.00	\$25.00

Effective: October 4, 2022

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(1) Month-to-Month (Cont'd)- OC192

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,200.00	\$60.00

- Gigabit Ethernet

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$600.00	\$15.00

- 10 G LAN

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,200.00	\$60.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(1) Month-to-Month (Cont'd)- 10 G WAN

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Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,200.00	\$60.00

- OTU1

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$900.00	\$25.00

- OTU2

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,200.00	\$60.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(1) Month-to-Month (Cont'd)- OTU3

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Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,800.00	\$145.00

- 100 Gb Ethernet

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$3,000.00	\$340.00

- OTU4

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$3,000.00	\$340.00

Effective: October 4, 2022

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(2) 1 Year- OC3

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$200.00	\$4.00

- OC12

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$350.00	\$8.00

- OC48

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$750.00	\$19.00



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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(2) 1 Year (Cont'd)- OC192

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,000.00	\$50.00

- Gigabit Ethernet

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$500.00	\$10.00

- 10 G LAN

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,000.00	\$50.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(2) 1 Year (Cont'd)- 10 GB WAN

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,000.00	\$50.00

- OTU1

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$750.00	\$19.00

- OTU2

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,000.00	\$50.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(2) 1 Year (Cont'd)- OTU3

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,500.00	\$120.00

- 100 Gb Ethernet

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$2,500.00	\$280.00

- OTU4

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$2,500.00	\$280.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(3) 3 Year- OC3

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$130.00	\$3.00

- OC12

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$225.00	\$6.00

- OC48

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$480.00	\$14.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(3) 3 Year (Cont'd)- OC192

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$640.00	\$35.00

- Gigabit Ethernet

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Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$320.00	\$7.00

- 10 G LAN

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$640.00	\$35.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(3) 3 Year (Cont'd)- 10 G WAN

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$640.00	\$35.00

- OTU1

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$480.00	\$14.00

- OTU2

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$640.00	\$35.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(3) 3 Year (Cont'd)- OTU3

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$960.00	\$90.00

- 100 Gb Ethernet

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,600.00	\$210.00

- OTU4

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,600.00	\$210.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(4) 5 Year- OC3

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Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$105.00	\$2.25

- OC12

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$180.00	\$5.00

- OC48

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$385.00	\$12.00



## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(4) 5 Year (Cont'd)- OC192

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Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$515.00	\$30.00

- Gigabit Ethernet

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$260.00	\$6.00

- 10 G LAN

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$515.00	\$30.00

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## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(4) 5 Year (Cont'd)- 10 G WAN

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$515.00	\$30.00

- OTU1

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$385.00	\$12.00

- OTU2

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$515.00	\$30.00

## ACCESS SERVICE

7. Special Access Service (Cont'd)7.16 Optical Wavelength Service (OWS) (Cont'd)7.16.3 Rates and Charges (Cont'd)(B) Channel Mileage (Cont'd)(4) 5 Year (Cont'd)- OTU3

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$768.00	\$70.00

- 100 Gb Ethernet

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,280.00	\$170.00

- OTU4

---

Monthly Rates

---

<u>Termination</u>	<u>Facility (Per Mile)</u>
\$1,280.00	\$170.00

## ACCESS SERVICE

8. Miscellaneous Services

In this section normally scheduled working hours are an employee's scheduled work period in any given calendar day (e.g., 7:00 a.m. to 4:00 p.m.) for the application of rates based on working hours. Basic Time is that time during normally scheduled working hours. Overtime is that time outside of normally scheduled working hours on scheduled working days. Premium Time is that time outside of normally scheduled working days.

A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours. Work subject to Premium Time is always subject to a minimum charge of four hours.

8.1 Additional Engineering

Additional Engineering will be provided by the Telephone Company at the request of the customer or when the Telephone Company determines that Additional Engineering is necessary to accommodate a customer's request.

Additional Engineering is provided when:

- (A) A customer requests additional technical information beyond that normally included by the Telephone Company on the Design Layout Report (DLR) as set forth in 6.4(F) and 7.1.6.
- (B) Additional engineering time is incurred by the Telephone Company to engineer a customer's specific written request for a customized service or additional engineering activities which are not normally performed in the provision of services under this service guide.

The Telephone Company will notify the customer that Additional Engineering charges, as set forth in 8.1.1 following, will apply before any additional engineering is undertaken. When it is required, the customer will be so notified and will be furnished with a written statement setting forth the justification for the Additional Engineering as well as an estimate of the charges. If the customer agrees to the Additional Engineering, a firm order will be established. If the customer does not want the service or facilities after being notified that Additional Engineering of Telephone Company facilities is required, the order will be withdrawn and no charges will apply. Once a firm order has been established, the total charge to the customer for the Additional Engineering may not exceed the estimated amount by more than 10%.

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## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.1 Additional Engineering (Cont'd)8.1.1 Charges for Additional Engineering

The charges for Additional Engineering are as follows:

Per Engineer, Per Half Hour, or Fraction Thereof

<u>Jurisdiction</u>	Basic Time	Overtime	Premium Time*
Alabama	\$39.76	\$58.56	\$78.08
Missouri	40.35	60.55	80.70

\* Subject to a minimum charge of four hours.

## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.2 Additional Labor

Additional labor is that labor requested and authorized by the customer on a given service and agreed to by the Telephone Company as set forth in 8.2.1 through 8.2.5 following. The Telephone Company will notify the customer that additional labor charges as set forth in 8.2.6 following will apply before any additional labor is undertaken.

8.2.1 Overtime Installation

Overtime installation is that Telephone Company installation effort performed outside of normally scheduled working hours.

8.2.2 Overtime Repair

Overtime repair is that Telephone Company maintenance effort performed outside of normally scheduled working hours.

8.2.3 Stand by

Stand by includes all time in excess of one-half (1/2) hour during which Telephone Company personnel stand by to make installation acceptance tests or cooperative tests with a customer on a given service.

8.2.4 Maintenance with Other Telephone Companies

Additional labor charges apply to additional maintenance or repair of facilities which connect to facilities of other telephone companies. This is in addition to the normal efforts required to maintain or repair facilities provided solely by the Telephone Company, as set forth in 2.1.1(C).

8.2.5 Other Labor

Other labor is that additional labor not included in 8.2.1 through 8.2.4 preceding. This includes labor incurred to accommodate a specified customer request that involves only labor which is not covered by any other section of this service guide.

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## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.2 Additional Labor (Cont'd)8.2.6 Charges for Additional Labor

The charges for additional labor are as follows:

Per Technician, Per Half Hour, or Fraction Thereof

<u>Jurisdiction</u>	<u>Basic Time</u>	<u>Overtime*</u>	<u>Premium Time**</u>
Alabama	\$38.75	\$87.50	\$123.78
Missouri	\$38.75	\$87.50	\$123.78

\* A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

\*\* Subject to a minimum charge of four hours.

## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.3 Maintenance of Service

- (A) The customer will be responsible for reporting troubles sectionalized to Telephone Company facilities and/or equipment. When trouble cannot be clearly sectionalized to the Telephone Company facilities and/or equipment, the Telephone Company will test cooperatively or independently to assist in trouble sectionalization.

When a customer reports a trouble to the Telephone Company for clearance and no trouble is found in the Telephone Company's facilities, the customer shall be responsible for payment of a Maintenance of Service charge for the period of time from when Telephone Company personnel are dispatched to the customer's or customer's end user premises to when the work is completed. Failure of Telephone Company personnel to find trouble in Telephone Company facilities will result in no charge if the trouble is actually in those facilities, but not discovered at the time.

- (B) The customer shall be responsible for payment of a Maintenance of Service charge when the Telephone Company dispatches personnel to the customer's premises, and the trouble is in equipment or communications systems provided by other than the Telephone Company or in detariffed CPE provided by the Telephone Company.

In either (A) or (B) preceding, no credit allowance will be applicable for the interruption involved if the Maintenance of Service Charge applies.

- (C) The charge for Maintenance of Service are as follows:

Maintenance of Service  
Periods

Per Technician

Per occurrence

The charges for Maintenance of Service are the same as those set for Additional Labor as set forth in 8.2 preceding.



## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.4 Additional Testing

Testing Services provides for the use of a Telephone Company technician in performing specific tests authorized by the customer including additional testing of facilities which connect to facilities of other telephone companies. Testing Services offered under this section of the service guide are optional and are in addition to acceptance tests and in-service tests performed by the Telephone Company as described in and 7.1.8 preceding. Testing Services are made subject to the availability of the necessary qualified personnel and test equipment at the requested test locations.

Testing Services consist of Additional Cooperative Acceptance Testing (ACAT) which is performed during installation of Access Services and Nonscheduled Testing (NST) which is performed after acceptance of Access Services by the customer. Rates and charges for Testing Service are set forth in 8.4(C) following.

The Telephone Company will provide, upon request, documentation that lists the results of the tests performed. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

(A) Additional Cooperative Acceptance Testing

Rates and charges for Additional Cooperative Acceptance Testing of Special Access Services apply per technician used.

(1) Reserved For Future Use

## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.4 Additional Testing (Cont'd)(A) Additional Cooperative Acceptance Testing (Cont'd)(2) Special Access Service

At the customer's request, the Telephone Company may provide a technician at the customer's premises or at the end user premises: These tests may, e.g., consist of the following:

- Attenuation Distortion (i.e., frequency response)
- Intermodulation Distortion (i.e., harmonic distortion)
- Phase Jitter
- Impulse Noise
- Envelope Delay Distortion
- Echo Control
- Frequency Shift

(B) Nonscheduled Testing

Nonscheduled tests are performed by the Telephone Company "on demand." When a customer provides a technician at its premises with suitable test equipment to perform the required tests, the Telephone Company may provide a technician at its office for the purpose of conducting Nonscheduled Testing of Special Access services. At the customer's request, the Telephone Company may provide a technician at the customer's premises. Nonscheduled tests may consist of any tests, e.g., loss, noise, slope, envelope delay, which the customer may require. Rates and charges for Nonscheduled Testing apply per technician used.

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## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.4 Additional Testing (Cont'd)(C) Rates and Charges

The charges for Additional Testing are as follows:

Per Technician, Per Half Hour, or Fraction Thereof

<u>Jurisdiction</u>	Basic Time	Overtime*	Premium Time**
Alabama	\$37.51	\$53.80	\$71.74
Missouri	34.71	47.75	63.70

\* A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

\*\* Subject to a minimum charge of four hours.

## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.6 Billing Name and Address Services

The Telephone Company will, upon request, provide Billing Name and Address Service (BNAS) to a Telecommunications Service Provider (customer), or its authorized billing and collection agent. Telecommunications Service Providers include interexchange carriers, operator service providers, enhanced service providers, and any other provider of interstate telecommunications services. There are three BNAS offerings available pursuant to this service guide, Per Call/Periodic BNA, Data Gathering Service (DGS), and End User Validation List.

8.6.1 Per Call/Periodic BNA and Data Gathering Service

Per Call/Periodic BNA is the billing name and address and Data Gathering is the billing telephone number, name, address and associated working telephone number information for customer provided ten digit end user telephone numbers required by the Telecommunications Service Provider customer to bill for calls placed within a specific time period. Per Call/Periodic BNA and DGS are offered subject to the following conditions:

A standard format for the receipt and provision of telephone number and billing name and address information will be established by the Telephone Company. Charges for each Per Call/Periodic BNA searched for and found or searched for and not found will be billed at rates in 8.6.3(A). Charges for each record accessed for DGS are set forth under 8.6.3(B). Per Call/Periodic BNA and DGS will be provided via electronic transmission or paper format, at the option of the customer, at rates in 8.6.3(A) or 8.6.3(B) respectively. The processing fee will be applied on a per state basis, once per calendar year for BNAS processing done within that calendar year.

The customer must order Per Call/Periodic BNA or DGS and provide test data tape at least 30 days prior to delivery of the first customer order.

The frequency for receipt of the customer provided orders for Per Call/Periodic BNA or DGS will be no more than twice monthly and at intervals mutually agreed upon between the Telephone Company and the customer. The customer provided end user telephone numbers will be programmed by the Telephone Company with the proper end user's billing name and address contained in the Telephone Company's file at that time.

## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.6 Billing Name and Address Services (Cont'd)8.6.1 Per Call/Periodic BNA and Data Gathering Service (Cont'd)

Per Call/Periodic BNA and DGS information for nonlisted/nonpublished end user telephone numbers will be provided unless the nonlisted/nonpublished end user provides written notice to the Telephone Company of nonconsent to the release of the BNA/DGS data. Within 30 days of receipt of such notice, the Telephone Company will discontinue disclosure of the end user's nonlisted/nonpublished BNA/DGS data.

For other than electronic transmission, the output records will be sent to the customer via first class U. S. Mail. The output records will normally be made available for mailing ten workdays after receipt of the customer order or at an interval mutually agreed upon. Availability may be delayed in case of input errors in the customer provided order.

The customer may request data be transmitted. Data transmission charges will be determined on an ICB. Data transmission hardware and software specifications will be mutually agreed upon by the Telephone Company and the customer.

Per Call/Periodic BNA and DGS detail will not be retained by the Telephone Company longer than 45 days. If the customer requests that the output be made available on a second occasion, such request must occur within 30 days from the date the first was made.

Any customer, provided Per Call/Periodic BNA or DGS pursuant to this service guide, agrees to abide by all applicable rules, decisions, orders, statutes and laws concerning the disclosure of published and nonpublished telephone numbers, and further agrees to use the information contained therein only for the purpose of billing for services provided to their end users.

In no case shall any customer or authorized billing and collection agent of a customer disclose the billing name and address information of any subscriber to any third party, except that a customer may disclose BNA/DGS information to its authorized billing and collection agent or to governmental law enforcement agencies.

## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.6 Billing Name and Address Services (Cont'd)8.6.2 End User Validation List

End User Validation Lists provide for the disclosure of all or a portion of end user/agent data available from the Telephone Company's records, to a Telecommunications Service Provider (customer), for purposes other than billing, and in compliance with the conditions set forth in Part 64.1201(c)(1) of the FCC's Rules and Regulations. In addition, End User Validation List Service is offered subject to the following:

Standard End User Validation Lists will be provided in three (3) files, business, coin (semi-public and public paystations) and residence. Nonlisted/nonpublished information will be excluded, with the exception of nonlisted public paystations. The lists may be ordered on a national, multi-state or state level basis, at the option of the customer, for any of the Telephone Company's jurisdictions subject to this service guide, unless prohibited by federal regulation or federal statute. Rates for the standard End User Validation List are set forth under 8.6.3(C).

Per calendar year, the customer may request up to two (2) lists per state for business, coin, and residence listings.

A standard format will be established by the Telephone Company. Requests for special list sorts will be limited to an end user list separating those that are presubscribed to the requesting customer, and/or those that are not. The rate, per record, applicable to special sorts is set forth under 8.6.3 (C).

Each request shall be treated as a new request. Requests for updates from previous lists will not be provided.

The customer shall have fifteen (15) business days from the date of delivery of a list to request any investigation of issues arising from the provision of the list.

End User Validation Lists will normally be provided to the customer within thirty calendar days after receipt of a request and within ten (10) business days of extraction, or at an interval mutually agreed upon. The administrative fee set forth under 8.6.3 (C) applies per request, whether ordered on a per state, multi-state, or national level.

In no case shall any customer or authorized billing and collection agent of a customer disclose the billing name and address information of any subscriber to any third party, except that a customer may disclose BNA information to its authorized billing and collection agent or to governmental law enforcement agencies.

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## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.6 Billing Name and Address Services (Cont'd)8.6.3 Rates and Charges(A) Per Call/Periodic BNA

	Billing Name and Address Found/Each	Billing Name and Address Not Found/Each	<u>Processing Fee*</u> Paper Report, Electronic Transmission Each State
<u>Jurisdiction</u>			
Alabama	\$.43	\$.47	\$49.25
Missouri	.17	.17	44.77

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## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.6 Billing Name and Address Service (Cont'd)8.6.3 Rates and Charges(B) Data Gathering Service

<u>Jurisdiction</u>	<u>Per Record Accessed</u>	<u>Processing Fee*</u>
		Paper Report, Electronic Transmission <u>Each State</u>
Alabama	\$.19	\$75.00
Missouri	.27	76.65

\* Applies once per calendar year for DGS processing done within that calendar year.



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## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.6 Billing Name and Address Services (Cont'd)8.6.3 Rates and Charges(C) End User Validation List

<u>Jurisdiction</u>	<u>Standard Sort, Per Record Provided</u>	<u>Administrative Fee</u>		<u>Special Sort, Per Record Provided</u>
		<u>Paper Report,</u>	<u>Electronic Transmission Per Request</u>	
Alabama	\$.032		\$78.00	\$.053
Missouri	.031		78.00	.054

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ACCESS SERVICE

8. MISCELLANEOUS SERVICES (Cont'd)

8.7 Reserved For Future Use

## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.8 Telecommunications Service Priority8.8.1 General

The Telephone Company will arrange a Telecommunications Service Priority (TSP) installation and service restoration classification on receipt of certification in conformance with Part 64, Subpart D, Appendix A of the Federal Communications Commission's Rules and Regulations.

The TSP System is a service, developed to meet the requirements of the Federal Government, for the priority installation and/or restoration of NSEP telecommunications services. This includes Special Access Services. The TSP System applies only to NSEP telecommunications services and requires and authorizes priority action by the Telephone Company.

The TSP System shall be provided in accordance with the guidelines set forth in "Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook" (NCS) H 3-1-2 dated July 9, 1990 and "Telecommunications Security Emergency Preparedness (NSEP) Service User Manual" (NCS) M 3-1-1.

8.8.2 Priority Installation

Expedited order charges, as set forth in Section 5.3.1.(D), are applicable to access orders submitted with a TSP installation priority. Access orders requiring the special construction of facilities will be subject to the regulations, rates and charges of BRIGHTSPEED LOCAL OPERATING COMPANIES Tariff F.C.C. No. 4, Special Construction.

## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.8 Telecommunications Service Priority (Cont'd)8.8.3 Priority Restoration

- (A) New orders with priority level assignments will be provisioned in accordance with the guidelines established for TSP. The Telephone Company will not accept orders for new Restoration Priority System (RP) circuits after September 10, 1990. Applications for circuits previously provisioned under RP must be resubmitted for provisioning in accordance with the guidelines established for TSP during the 30-month transition period between September 10, 1990 through March 10, 1993. The Nonrecurring Charge as set forth in 8.8.4(B) will apply to RP orders resubmitted for provisioning under the TSP System. After the transition period, the Telephone Company will discontinue any RP assignments remaining on record.
- (B) Under certain conditions it may be necessary to preempt one or more customer services with a lower or no restoration priority in order to install or restore NSEP telecommunications service(s) of a higher priority. If such preemption is necessary, and if circumstances permit, the Telephone Company will make reasonable effort to notify the preempted service customer of the action to be taken.
- (C) No additional charge applies to the implementation of a Priority Restoration level submitted concurrent with the initial order to install the Special Access Service. The nonrecurring charge set forth in 8.8.4(B) following will apply to any request to change or add a Priority Restoration level on an existing Special Access Service.

## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.8 Telecommunications Service Priority (Cont'd)8.8.4 Rates and Charges

The following rates and charges are in addition to all other rates and charges that may be applicable for other services that may be furnished the provisions of this service guide which operate in conjunction with the TSP System.

## (A) Priority Installation of an Access Service.

- |     |  |  |
|-----|--|--|
| (1) | Expedited Orders                                 | Regulations, rates and charges are the same as those set forth in 5.3.1(D) preceding for Access Service.                                     |
| (2) | Utilization of Specially Constructed Facilities. | Regulations, rates and charges are the same as those set forth in Brightspeed Operating Companies Tariff F.C.C. No. 5, Special Construction. |

## (B) Priority Restoration (PR) Level Implementation on an Access Service.

	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
(1) When the PR level is implemented concurrent with the initial ASR.	\$4.85	None
(2) When the PR level is added or changed on an existing Access Service.	\$4.85	\$14.50

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ACCESS SERVICE

8. Miscellaneous Services (Cont'd)

8.9 Reserved For Future Use

8.10 Reserved For Future Use

8.11 Reserved For Future Use

8.12 Reserved For Future Use

8.13 Reserved For Future Use

8.14 Reserved For Future Use

8.15 Reserved For Future Use

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## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.16 Universal Service Fund Charge

The Federal Universal Service Charge (FUSC) recovers the Telephone Company's contribution to various federal universal service funds. The Telephone Company will apply the FUSC Surcharge Factor each month to the billed charges for interstate access services provided to end users from this service guide.

The FUSC Surcharge Factor will not apply to any billed charges for an end user when the interstate access provided to the end user qualifies under the federal universal service guidelines for Lifeline Assistance. The FUSC Surcharge Factor will not apply to interstate access services purchased by customers that resell these services to end users as part of an interstate telecommunications service and are required to contribute to the various federal universal service funds. In case of a dispute regarding whether the customer is reselling services and contributing to the various federal universal service funds, the Telephone Company may request a signed certification to that effect from the customer.

The FCC Contribution factor is subject to change quarterly. The current factor can be found at:

<http://www.fcc.gov/encyclopedia/contribution-factor-quarterly-filings-universal-service-fund-usf-management-support>

8.17 Reserved For Future Use

## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.18 Provision of Access Service Billing Information

- (A) The customer shall select the medium in which its official access service bills and customer service records are to be provided. This selection shall be made on a per Billing Account Number (BAN) basis and shall be submitted in writing to the Telephone Company. The customer may request that access service billing information be provided via electronic data transfer, on-line bill image, or paper format. Should the customer fail to make a selection, the official copy of the customer's access service bills and customer service records will be provided in paper format. If a customer requests their access bill in multiple formats that includes the paper format, the paper format will be considered the additional or secondary format and will be charged according to 8.18(E).
- (B) At the customer's option, additional copies of the current month's access service bill and/or customer service records will be provided via paper format at the charges specified in 8.18(E) following. Requests for additional copies of the current month's bill and/or customer service records must be submitted in writing and shall specify the medium selected by the customer.

Additional copies of a customer's previous monthly access service bills will be provided via paper format on an individual case basis. Requests for additional copies of previous monthly bills must be submitted in writing and shall specify the bill dates requested and the medium in which the copies are to be provided. The charges for providing additional copies of previous monthly access service bills will be developed by the Telephone Company on an individual case basis.



## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.18 Provision of Access Service Billing Information (Cont'd)

- (C) Upon acceptance by the Telephone Company of an order for electronic data transfer, the Telephone Company will determine the period of time to implement the transmission of such material on an individual order basis.
- (D) Upon acceptance of an order by the Telephone Company for the on-line bill image format option, the Telephone Company will establish customer access to the Billing Account Number identified by the customer. The on-line bill image option captures and retains invoices on a go-forward basis from the time of initial set-up. Previous bill history will not be available in the on-line bill image format prior to the establishment of the on-line bill image format option by the customer.

The rates and charges for the provision of Access Service Billing Information for other additional or secondary formats are as specified in 8.18(E) following.

## ACCESS SERVICE

8. Miscellaneous Services (Cont'd)8.18 Provision of Access Service Billing Information (Cont'd)(E) Additional copies of the customer's monthly bill

- per copy per Billing Account Number in paper format

<u>Monthly Rate</u>	<u>Non-Recurring Charge</u>
-------------------------	---------------------------------

\$60.00
---------

\$60.00
---------

## ACCESS SERVICE

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes9.1 Reserved for Future Use9.2 Reserved for Future Use9.3 Channel Interface and Network Channel Codes

This section explains the Channel Interface codes and Network Channel codes that the customer must specify when ordering Special Access Service. Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces.

Example: If the customer specifies a NT Network Channel Code and a 2DS8-3 Channel Interface at the customer's premises, the following is being requested:

NT =	Metallic Circuit with a Predefined Technical Specification Package (1)
2 =	Number of physical wires at customer premises
DS =	Facility interface for direct current or voltage
8 =	Variable impedance level
3 =	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>
AB	-	accepts 20 Hz ringing signal at customer's point of termination
AC	-	accepts 20 Hz ringing signal at customer's end user's point of termination
AH	-	analog high capacity interface
	B	60 kHz to 108 kHz (12 channels)
	C	312 kHz to 552 kHz (60 channels)
	D	564 kHz to 3084 kHz (600 channels)
CT	-	Centrex Tie Trunk Termination
DA	-	data stream in VF frequency band at customer's end user's point of termination
DB	-	data stream in VF frequency band at customer's point of termination
	10	VF for TG1 and TG2
	43	VF for 43 Telegraph Carrier type signals, TG1 and TG2 DC -direct current or voltage
	1	monitoring interface with series RC combination (McCulloch format)
	2	Telephone Company energized alarm channel
	3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)
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 41451 plus D4
	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 PUB 41451

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DS (Cont'd)		
-	15K	1.544 Mbps format per PUB 41451 plus extended framing format
-	15L	1.544 Mbps (DS1) with SF signaling
-	27	274.176 Mbps (DS4)
-	27L	274.176 Mbps (DS4) with SF signaling
-	31	3.152 Mbps (DS1C)
-	31L	3.152 Mbps (DS1C) with SF signaling
-	44	44.736 Mbps (DS3)
-	44L	44.736 Mbps (DS3) with SF signaling
-	63	6.312 Mbps (DS2)
-	63L	6.312 Mbps (DS2) with SF signaling
DU	-	digital access interface
-	19	19.2 kbps
-	24	2.4 kbps
-	48	4.8 kbps
-	56	56.0 kbps
-	64	64 kbps
-	96	9.6 kbps
-	A	1.544 Mbps format per PUB 41451
-	B	1.544 Mbps format per PUB 41451 plus D4
-	C	1.544 Mbps format per PUB 41451 plus extended framing format
DX	-	duplex signaling interface at customer's point of termination
DY	-	duplex signaling interface at customer's end user's point of termination
EA	- E	type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EA	- M	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EB	- E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EB	- M	Type II E&M Lead Signaling. Customer at POT or customer's end user at originates on M Lead.

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Description</u>
EC	-	Type III E&M signaling at customer POT
EX	- A	tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions
EX	- B	tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions
GO	-	ground start loop signaling-open end function by customer or customer's end user
GS	-	ground start loop signaling-closed end function by customer or customer's end user
IA	-	E.I.A. (25 pin RS-232)
KD	- A	Ethernet at 10 Mbps, full duplex LAN
	- B	Ethernet at 10 Mbps, half duplex LAN
KE	- A	Ethernet at 100 Mbps, full duplex LAN
	- B	Ethernet at 100 Mbps, half duplex LAN
KF	- L	Ethernet at 1000 Mbps, LAN
KR	- A1	Ethernet Rate-Adjustable 1 Gbps, 100 Mbps, full duplex
	- A3	Ethernet Rate-Adjustable 1 Gbps, 300 Mbps, full duplex
	- A6	Ethernet Rate-Adjustable 1 Gbps, 600 Mbps, full duplex
	- AB	Ethernet Rate-Adjustable 1 Gbps, 150 Mbps, full duplex
	- AK	Ethernet Rate-Adjustable 1 Gbps, 450 Mbps, full duplex
KQ	- A2	Ethernet Rate-Adjustable 1 Gbps, 20 Mbps, full duplex
	- B2	Ethernet Rate-Adjustable 1 Gbps, 20 Mbps, half duplex
	- A5	Ethernet Rate-Adjustable 1 Gbps, 50 Mbps, full duplex
	- B5	Ethernet Rate-Adjustable 1 Gbps, 50 Mbps, half duplex
LA	-	end user loop start loop signaling-Type A OPS registered port open end
LB	-	end user loop start loop signaling-Type B OPS registered port open end
LC	-	end user loop start loop signaling-Type C OPS registered port open end
LO	-	loop start loop signaling-open end function by customer or customer's end user
LR	-	20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR
LS	-	loop start loop signaling-closed end function by customer or customer's end user
NO	-	no signaling interface, transmission only
PG	-	program transmission – no dc signaling
	- 1	nominal frequency from 50 to 15000 Hz
	- 3	nominal frequency from 200 to 3500 Hz
	- 5	nominal frequency from 100 to 5000 Hz
	- 8	nominal frequency from 50 to 8000 Hz

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
PR		protective relaying*
RV	- O	reverse battery signaling, one way operation, originate by customer
	- T	reverse battery signaling, one way operation, terminate function by customer or customer's end user
SF	-	single frequency signaling with VF band at either customer POT or customer's end user POT

\* Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
WD	-	
	- 1	nominal passband from 300 to 18000 Hz
	- 2	nominal passband from 28000 to 44000 Hz
	- 3	nominal passband from 29000 to 44000 Hz



## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.2 Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

<u>Value (ohms)</u>	<u>Code(s)</u>
110	0
150	1
600	2
900	3+
135	5
75	6
124	7
Variable	8
100	9

- + For those interface codes with a 4-wire transmission path at the customer's POT, rather than a standard 900 ohm impedance the code (3) denotes a customer provided transmission equipment termination. Such terminations were provided to customers in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.3 Digital Hierarchy Channel Interface Codes (4DS)

Customers selecting the multiplexed four-wire DSX-1 or higher facility interface option at the customer designated premises will be requested to provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS8, 4DS9, 4DS0 or 4DS6 plus the speed options indicated below:

<u>Interface Code and Speed Option</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>
4DS8-15	1.544	DS1
4DS9-31	3.152	DS1C
4DS0-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.4 Service Designator/Network Channel Code Conversion Table

The purpose of this table is to show the relationship between the service designator codes (e.g. VGC, MT2, etc.) and the network channel codes that are used for various administrative purposes.

<u>Service Designator Code</u>	<u>Network Channel Code</u>
MTC	MQ
MT1	NT
MT2	NU
MT3	NV
TGC	NQ
TG1	NW
TG2	NY
VGC	LQ
VG1	LB
VG2	LC
VG3	LD
VG4	LE
VG5	LF
VG6	LG
VG7	LH
VG8	LJ
VG9	LK
VG10	LN
VG11	LP
VG12	LR
APC	PQ
AP1	PE
AP2	PF
AP3	PJ
AP4	PK
TVC	TQ
TV1	TV
TV2	TW

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.4 Service Designator/Network Channel Code Conversion Table (Cont'd)

<u>Service Designator Code</u>	<u>Network Channel Code</u>
WA1	WJ
WA1T	WQ
WA2	WL
WA2A	WR
WA3	WN
WA4	WP
WD1	WB
WD2	WE
WD3	WF
DA1	XA
DA2	XB
DA3	XG
DA4	XH
HCO	HS
HC1	HC
HC1C	HD
HC2	HE
HC3	HF
HC4	HG

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## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(A) Voice Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AB2	4AB2				
4AB2	4AC2	4AH5-B	6DA2	4AH6-D	2DY2
4AB3	4AC2	4AH5-B	4DA2	4AH6-C	9DY2
4AB2	2AC2	4AH5-B	2DA2	4AHG-C	9DY3
4AB3	2AC2		4AH6-C	6DY2	
2AB2	2AC2	4AH6-D	4DE2	4AH6-C	6DY3
2AB3	2AC2	4AH6-C	4DE2	4AH6-C	4DY2
		4AH5-B	4DE2	4AH6-C	2DY2
4AB2	4SF2	4AH6-D	2DE2	4AH5-B	9DY2
4AB3	4SF2	4AH6-C	2DE2	4AH5-B	9DY3
		4AH5-B	2DE2	4AH5-B	6DY2
4AH6-D	4AC2		4AH5-B	6DY3	
4AH6-D	2AC2	4AH6-D	4DX3	4AH5-B	4DY2
4AH6-C	4AC2	4AH6-C	4DX3	4AH5-B	2DY2
4AH6-C	2AC2	4AH5-B	4DX3		
4AH5-B	4AC2	4AH6-D	4DX2	4AH6-D	9EA2
4AH5-B	2AC2	4AH6-C	4DX2	4AH6-D	9EA3
		4AH5-B	4DX2	4AH6-D	6EA2-E
4AH6-D	2CT3		4AH6-D	6EA2-M	
			4AH6-D	4EA2-E	
4AH6-C	2CT3		4AH6-D	4EA2-M	
4AH5-B	2CT3		4AH6-C	9EA2	
4AH6-D	6DA2		4AJ7-C	9EA3	
4AH6-D	4DA2	4AH6-D	9DY2	4AH6-C	6EA2-E
4AH6-D	2DA2	4AH6-D	9DY3		
4AH6-C	6DA2	4AH6-D	6DY2		
4AH6-C	4DA2	4AH6-D	6DY3		
4AH6-C	2DA2	4AH6-D	4DY2		

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(A) Voice Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH6-C	6EA2-M	4AH6-D	6GS2	4AH6-D	2LO2
4AH6-C	4EA2-E	4AH6-D	4GS2	4AH6-C	2LO3
4AH6-C	4EA2-M	4AH6-D	2GS3	4AH6-C	2LO2
4AH5-B	9EA2	4AH6-D	2GS2	4AH5-B	2LO3
4AH5-B	9EA3	4AH6-C	6GS2	4AH5-B	2LO2
4AH5-B	6EA2-E	4AH6-C	4GS2		
4AH5-B	6EA2-M	4AH6-C	2GS3	4AH6-B	4LR2
4AH5-B	4EA2-E	4AH6-C	2GS2	4AH6-D	2LR2
4AH5-B	4EA2-M	4AH5-B	6GS2	4AH6-C	4LR2
		4AH5-B	4GS2	4AH6-C	2LR2
4AH6-D	8EB2-E	4AH5-B	2GS3	4AH5-B	4LR2
4AH6-D	8EB2-M	4AH5-B	2GS2	4AH5-B	2LR2
4AH6-D	6EB2-E				
4AH6-D	6EB2-M	4AH6-D	2LA2	4AH6-D	6LS2
4AH6-C	8EB2-E	4AH6-C	2LA2	4AH6-D	4LS2
4AH6-C	8EB2-M	4AH5-B	2LA2	4AH6-D	2LS2
4AH6-C	6EB2-E		4AH6-D		2LS3
4AH6-C	6EB2-M	4AH6-D	2LB2	4AH6-C	6LS2
4AH5-B	8EB2-E	4AHG-C	2LB2	4AH6-C	4LS2
4AH5-B	8EB2-M	4AH5-B	2LB2	4AH6-C	2LS2
4AH5-B	6EB2-E		4AH6-C		2LS3
4AH5-B	6EB2-M	4AH6-D	2LC2	4AH5-B	6LS2
		4AH6-C	2LC2	4AH5-B	4LS2
		4AH5-B	2LC2	4AH5-B	2LS2
4AH6-D	2GO2				
4AH6-D	2GO3				
4AH6-C	2GO2				
4AH6-C	2GO2				
4AH5-B	2GO2	4AH6-D	2LO3	4AH5-B	2LS3
4AH5-B	2GO3				

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## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(A) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH6-D	4NO2	4AH6-D	4TF2	2CT3	8EB2-E
4AH6-D	2NO2	4AJ7-D	2TF2	2CT3	8EB2-M
4AH6-C	4NO2	4AH6-C	4TF2		
4AH6-C	2NO2	4AH6-C	2TF2	2CT3	6482-E
4AH5-B	4NO2	4AH5-B	4TF2	2CT3	6EB2-M
4AH5-B	2NO2	4AH5-B	2TF2		
				2CT3	6EB3-E
				2CT3	4DS9-*
				2CT3	8EC2
		2CT3	6DX2		
		2CT3	4DX2	2CT3	4SF2
		2CTS	4DX3	2CT3	4SF3
4AH6-D	4PR2	2CT3	9DY3	6DA2	6DA2
4AH6-D	2PR2	2CT3	6DY3	6DA2	4DA2
4AH6-C	4PR2	2CT3	9DT2	4DA2	4DA2
4AH6-C	2PR2	2CT3	6DY2		
4AH5-B	4PR2	2CT3	4DY3	4DB2	6DA2
4AH5-B	2PR2	2CT3	2DY2	4DB2	4DA2
				4DB2	2DA2
4AH6-D	4RV2-T	2CT3	9EA3	2DB3	2DA2
4AH6-D	2RV2-T	2CT3	9EA2	2DB2	2DA2
4AH6-C	4RV2-T	2CT3	6EA2-E	4DB2	4DB2
4AH6-C	2RV2-T	2CT3	6EA2-M	4DB2	4NO2
4AH5-B	4TV2-T	2CT3	4EA2-E	4DB2	2NO2
4AH5-B	2RV2-T	2CT3	4EA2-M	2DB2	2NO2
4AH6-D	4SF2			4DB2	4PR2
4AH6-C	4SF2			4DB2	2PR2
4AH5-B	4SF2			2DB2	2PR2
4AH6-D	4SF3				
4AH6-C	4SF3				
4AH5-B	4SF3				

\* See 9.3.3 preceding for explanation.

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## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(A) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DD3	4DE2	4DS8-*	9DY3
4DD3	2DE2	4DS8-*	9DY2
		4DS8-*	6DY3
4DS8-*	4AC2	4DS8-*	6DY2
4DS8-*	2AC2	4DS8-*	4DY2
		4DS8-*	2DY2
4DS8-*	6DA2		
4DS8-*	4DA2		
4DS8-*	2DA2	4DS8-*	9EA2
		4DS8-*	9EA3
4DS8-*	4DE2	4DS8-*	6EA2-E
4DS8-*	EDE2	4DS8-*	6EA2-M
		4DS8-*	4EA2-E
4DS8-*	4DX3	4DS8-*	4EA2-E
4DS8-*	4DX2		

\* See 9.3.3 preceding for explanation.



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## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(A) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS8-*	8EB2-E	4DS8-*	4NO2	4DX3	9DY2
4DS8-*	8EB2-M	4DS8-*	2NO2	4DX2	6DY3
4DS8-*	6EB2-E			4DX3	6DY3
4DS8-*	6EB2-M	4DS8-*	4PR2	4DX2	6DY2
		4DS8-*	2PR2	4DX3	6DY2
4DS8-*	2GO2			4DX2	4DY2
4DS8-*	2GO3	4DS8-*	4RV2-T	4DX3	4DY2
4DS8-*	6GS2	4DS8-*	2RV2-T	4DX2	2DY2
4DS8-*	4GS2			4DX3	2DY2
4DS8-*	2GS2	4DS8-*	4SF2		
4DS8-*	2GS3	4DS8-*	4SF3	6DX2	9EA3
				6DX2	9EA2
4DS8-*	2LA2	4DS8-*	4TF2	6DX2	6EA2-E
		4DS8-*	2TF2	6DX2	6EA2-M
4DS8-*	2LB2			6DX2	4EA2-E
		4DX2	4DX2	6DX2	4EA2-M
8DS8-*	2LC2	4DX3	4DX2	4DX2	9EA2
		4DX3	4DX3	4DX3	9EA2
4DS8-*	2LO2			4DX2	9EA3
4DS8-*	2LO3	6DX2	9DY3	4DX3	9EA3
		6DX2	9DY2	4DX2	6EA2-E
4DS8-*	4LR2	6DX2	6DY3	4DX3	6EA2-E
4DS8-*	2LR2	6DX2	6DY2	4DX2	6EA2-M
		6DX2	4DY2	4DX3	6EA2-M
4DS8-*	6LS2	6DX2	2DY2	4DX2	4EA2-E
4DS8-*	4LS2	4DX2	9DY3	4DX3	4EA2-E
4DS8-*	2LS2	4DX3	9DY3	4DX2	4EA2-M
4DS8-*	2LS3	4DX2	9DY2	4DX3	4EA2-M

\* See 9.3.3 preceding for explanation.

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## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(A) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6DX2	8EB2-E	4DX2	6LS2	9DY2	6DY3
6DX2	8EB2-M	4DX3	6LS2	9DY3	4DY2
6DX2	6EB2-E	4DX3	4LS2	9DY2	4DY2
6DX2	6EB2-M	4DX2	4LS2	9DY2	2DY2
4DX2	8EB2-E	4DX3	2LS3	9DY3	2DY2
4DX2	8EB2-M	4DX2	2LS3	6DY3	6DY3
4DX3	8EB2-E	4DX3	2LS2	6DY3	6DY2
4DX3	8EB2-M	4DX2	2LS2	6DY2	6DY2
4DX2	6EB2-E	2DX3	2LS2	6DY3	4DY2
4DX2	6EB2-M	2DX3	2LS3	6DY3	2DY2
4DX3	6EB2-E			6DY2	4DY2
4DX3	6EB2-M	4DX3	4RV2-T	6DY2	2DY2
		4DX2	4RV2-T	4DY2	2DY2
4DX2	2LA2	4DX3	2RV2-T	4DY2	4DY2
4DX3	2LA2	4DX2	2RV2-T		
2DX3	2LA2			6EA2-E	4AC2
		6DX2	4SF2	6EA2-M	4AC2
4DX2	2LB2	4DX2	4SF2	6EA2-E	2AC2
4DX3	2LB2	4DX3	4SF2	6EA2-M	2AC2
2DX3	2LB2	4DX2	4SF3		
		4DX3	4SF3	9EA2	9DY3
4DX2	2LC2			9EA2	9DY2
4DX3	2LC2	9DY3	9DY3	9EA2	6DY3
2DX3	2LC2	9DY3	9DY2	9EA2	6DY2
		9DY2	9DY2	9EA2	4DY2
4DX2	2LO3	9DY3	6DY3	9EA2	2DY2
4DX3	2LO3	9DY3	6DY2	9EA3	9DY3
2DX3	2LO3	9DY2	6DY2		

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(A) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
9EA3	9DY2	4EA2-M	9DY2	4EA3-E	9EA2
9EA3	6DY3	4EA2-M	6DY3	4EA3-E	9EA3
9EA3	6DY2	4EA2-M	6DY2	4EA2-M	4EA2-M
9EA3	4DY2	4EA2-M	4DY2		
9EA3	2DY2	4EA2-M	2DY2	9EA2	8EB2-E
6EA2-E	9DY3			9EA2	8EB2-M
6EA2-E	9DY2	9EA2	9EA2	9EA2	6EB2-E
6EA2-E	6DY3	9EA2	9EA3	9EA2	6EB2-M
6EA2-E	6DY2	9EA2	6EA2-E	9EA3	8EB2-E
6EA2-E	4DY2	9EA2	6EA2-M	9EA3	8E82-M
6EA2-E	2DY2	9EA2	4EA2-E	9EA3	6EB2-E
6EA2-M	9DY3	9EA2	4EA2-M	9EA3	6EB2-M
6EA2-M	9DY2	9EA3	9EA3	6EA2-E	8EB2-E
6EA2-M	6DY3	9EA3	6EA2-E	6EA2-E	8EB2-M
6EA2-M	6DY2	9EA3	6EA2-M	6EA2-E	6EB2-E
6EA2-M	4DY2	9EA3	4EA2-E	6EA2-E	6EB2-M
6EA2-M	2DY2	9EA3	4EA2-M	6EA2-M	8EB2-E
4EA2-E	9DY3	6EA2-E	6EA2-E	6EA2-M	8E82-M
4EA2-E	9DY2	6EA2-E	6EA2-M	6EA2-M	6EB2-E
4EA3-E	9DY3	6EA2-M	6EA2-M	6EA2-M	6EB2-M
4EA3-E	9DY2	6EA2-E	4EA2-E	4EA2-E	8EB2-E
4EA3-E	6DY3	6EA2-E	4EA2-M	4EA2-E	8EB2-M
4EA3-E	6DY2	6EA2-M	4EA2-E	4EA3-E	8EB2-E
4EA3-E	4DY2	6EA2-M	4EA2-M	4EA3-E	8E82-M
4EA3-E	2DY2	4EA2-E	4EA2-E	4EA2-E	6EB2-E
4EA2-E	6DY3	4EA3-E	6EA2-E	4EA2-E	6EB2-M
4EA2-E	6DY2	4EA3-E	6EA2-M	4EA3-E	6EB2-E
4EA2-E	4DY2	4EA3-E	4EA2-E	4EA3-E	6EB2-M
4EA2-E	2DY2	4EA3-E	4EA2-M	4EA2-M	8EB2-E
4EA2-M	9DY3	4EA2-E	4EA2-M		

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## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(A) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4EA2-M	8EB2-M	9EA3	43F2	6EB3-E	9DY2
4EA2-M	6EB2-E	9EA2	4SF2	6EB3-E	9DY3
4EA2-M	6EB2-M	6EA2-E	4SF3	6EB2-E	6DY2
		6EA2-M	4SF3	6EB3-E	6DY2
6EA2-E	2LA2	6EA2-E	4SF2	6EB2-E	6DY3
6EA2-M	2LA2	6EA2-M	4SF2	6EB3-E	6DY3
		4EA3-E	4SF2	6EB2-E	4DY2
6EA2-E	2LB2	4EA2-E	4SF2	6EB3-E	2DY2
6EA2-M	2LB2	4EA2-M	4SF2	6EB3-E	4DY2
				6EB2-M	9DY2
6EA2-E	2LC2	8EB2-E	4AC2	6EB2-M	9DY3
6EA2-M	2LC2	8EB2-M	4AC2	6EB2-M	6DY2
		8EB2-E	2AC2	6EB2-M	6DY3
6EA2-E	2LO3	8EB2-M	2AC2	6EB2-M	4DY2
6EA2-M	2LO3			6EB2-E	2DY2
		8EB2-E	9DY3	6EB2-M	2DY2
6EA2-E	6LS2	8EB2-E	9DY2		
6EA2-M	6LS2	8EB2-E	6DY3	6EB3-E	9EA2
6EA2-E	4LS2	8EB2-E	6DY2	6EB3-E	9EA3
6EA2-M	4LS2	8EB2-E	4DY2	6EB3-E	6EA2-E
6EA2-E	2LS2	8EB2-E	2DY2	6EB3-E	6EA2-M
6EA2-M	2LS2	8EB2-M	9DY3	6EB3-E	4EA2-E
6EA2-E	2LS3	8EB2-M	9DY2	6EB3-E	4EA2-M
6EA2-M	2LS3	8EB2-M	6DY3		
		8EB2-M	6DY2	8EB2-E	8EB2-E
6EA2-E	4RV2-T	8EB2-M	4DY2	8EB2-E	8EB2-M
6EA2-M	4RV2-T	8EB2-M	2DY2	8EB2-M	8EB2-M
6EA2-E	2RV2-T	6EB2-E	9DY2	8EB2-E	6EB2-E
6EA2-M	2RV2-T	6EB2-E	9DY3	8EB2-E	6EB2-M

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(A) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
8EB2-M	6EB2-E	8EB2-E	4RV2-T	8EC2	8EB2-M
8EB2-M	6EB2-M	8EB2-M	4RV2-T	8EC2	6EB2-E
6EB2-E	6EB2-E	8EB2-E	2RV2-T	8EC2	6EB2-M
6EB2-E	6EB2-M	8EB2-M	2RV2-T		
6EB3-E	8EB2-E			8EC2	4SF2
6EB3-E	8EB2-M	8EB2-E	4SF2	6EX2-B	2GO3
6EB2-M	6EB2-M	8EB2-M	4SF2	6EX2-A	6GS2
	8EB2-E	4SF3	6EX2-A	4GS2	
8EB2-E	2LA2	8EB2-M	4SF3	6EX2-A	2GS2
8EB2-M	2LA2	6EB3-E	4SF2	6EX2-A	2GS3
		6EB2-E	4SF2		
8EB2-E	2LB2	6EB2-M	4SF2	6EX2-B	2LA2
8EB2-M	2LB2				
		8EC2	9DY2	6EX2-B	2LB2
8EB2-E	2LC2	8EC2	9DY3		
8EB2-M	2LC2	8EC2	6DY2	6EX2-B	2LC2
		84C2	6DY3		
8EB2-E	2LO3	8EC2	4DY2	6EX2-B	2LO2
8EB2-M	2LO3	8EC2	2DY2	6EX2-B	2LO3
8EB2-E	6LS2	8EC2	9EA2	6EX2-B	4LR2
8EB2-M	6LS2	8EC2	9EA3	6EX2-B	2LR2
8EB2-E	4LS2	8EC2	6EA2-E		
8EB2-M	4LS2	8EC2	6EA2-M	6EX2-A	6LS2
8EB2-E	2LS2	8EC2	4EA2-E	6EX2-A	4LS2
8EB2-M	2LS2	8EC2	4EA2-M	6EX2-A	2LS2
8EB2-E	2LS3			6EX2-A	2LS3
8EB2-M	2LS3	8EC2	8EB2-E		

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## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(A) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6EX2-A	4SF2	6LO2	6LS2	4LR2	4SF2
6EX2-B	4SF2	6LO2	4LS2	4LR3	4SF2
		6LO2	2LS2		
6GO2	6GS2	6LO2	2LS3	6LS2	2LA2
6GO2	4GS2	4LO2	6LS2	4LS2	2LA2
6GO2	2GS2	4LO2	4LS2	4LS3	2LA2
GO2	2GS3	4LO3	6LS2	2LS2	2LA2
4GO2	6GS2	4LO3	4LS2	2LS3	2LA2
4GO3	6GS2	4LO3	2LS3		
4GO2	4GS2	4LO3	2LS2	6LS2	2LB2
4GO3	4GS2	4LO2	2LS2	4LS2	2LB2
4GO2	2GS2	4LO2	2LS3	4LS3	2LB2
4GO2	2GS3	2LO3	2LS3	2LS2	2LB2
4GO3	2GS2	2LO3	2LS2	2LS3	2LB2
4GO3	2GS3	2LO2	2LS2		
2GO2	2GS2	2LO2	2LS3	6LS2	2LC2
2GO3	2GS2			4LS2	2LC2
2GO2	2GS3	6LO2	4SF2	4LS3	2LC2
2GO3	2GS3	4LO2	4SF2	2LS2	2LC2
		4LO3	4SF2	2LS3	2LC2
6GO2	4SF2				
4GO2	4SF2	4LR2	4LR1	6LS2	2LO3
4GO3	4SF2	4LR3	2LR2	6LS2	2LO2
		4LR2	4LR2	4LS2	2LO2
6GS2	2GO2	4LR2	2LR2	4LS2	2LO3
4GS2	2GO2	2LR2	2LR2	4LS3	2LO2
4GS3	2GO2	2LR3	2LR2	4LS3	2LO3
4GS2	2GO3				

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(A) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6LS2	4SF2	4SF3	9DY2	4SF3	2LA2
4LS3	4SF2	4SF2	9DY3		
		4SF3	6DY3	4SF2	2LB2
4NO2	6DA2	4SF2	6DY3	4SF3	2LB2
4NO2	4DA2	4SF2	6DY3		
4NO2	2DA2	4SF3	6DY2	4SF2	2LC2
2NO2	2DA2	4SF2	4DY2	4SF3	2LC2
		4SF3	4DY2		
4NO2	4DE2	4SF3	2DY2	4SF2	2LO3
4NO2	2DE2	4SF2	2DY2	4SF3	2LO3
4NO2	4NO2	4SF3	9EA2	4SF2	2LR2
4NO2	2NO2	4SF3	9EA3	4SF3	4LR2
2NO2	2NO2	4SF3	4EA2-E	4SF3	2LR2
2NO3	2NO2	4SF3	4EA2-M		
				4SF3	6LS2
2NO3	2PR2	4SF3	6EB2-E	4SF2	4LS2
		4SF3	6EB2-M	4SF3	4LS2
4RV2-0	4RV2-T	4SF3	2GO3	4SF2	2LS2
4RV2-0	2RV2-T	4SF3	6GS2	4SF2	2LS3
4RV2-0	2RV2-T	4SF2	6GS2	4SF3	2LS2
		4SF2	6GS2	4SF3	2LS3
4RV2-0	4SF2	4SF3	4GS2		
		4SF2	2GS2	4SF3	4RV2-T
4SF2	4AC2	4SF2	2GS3	4SF2	4RV2-T
4SF2	2AC2	4SF3	2GS2	4SF2	2RV2-T
		4SF3	2GS3	4SF3	2RV2-T
4SF3	9DY3				
4SF2	9DY2	4SF2	2LA2	4SF3	4SF3

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(A) Voice Grade (Cont'd)Compatible CIs

4SF3	4SF2
4SF2	4SF2

4TF2	4TF2
4TF2	2TF2
2TF3	2TF2



## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(B) Program Audio

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH5-B	2PG1-3	4AH6-D	2PG1-3	4DS8-I5F	2PG2-5
4AH5-B	2PG1-5	4AH6-D	2PG1-5	4DS8-I5G	2PG2-8
4AH5-B	2PG1-8	4AH6-D	2PG1-8	4DS8-15H	2PG2-1
4AH5-B	2PG2-3	4AH6-D	2PG2-3	2PG2-1	2PG1-1
4AH5-B	2PG2-5	4AH6-D	2PG2-5	2PG2-1	2PG2-I
4AH5-B	2PG2-8	4AH6-D	2PG2-8	2PG2-3	2PGI-3
4AH6-C	2PG1-3	4DS8-15E	2PG1-3	2PG2-3	2PG2-3
4AH6-C	2PG1-5	4DS8-15F	2PG1-5	2PG2-5	2PG1-5
4AH6-C	2PG1-8	4DS8-15G	2PG1-8	2PG2-5	2PG2-5
4AH6-C	2PG2-3	4DS8-15H	2PG1-1	2PG2-8	2PG1-8
8AH6-C	2PG2-5	4DS8-15E	2PG2-3	2PG2-8	2PG2-8

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(C) Digital Data

## (1) Digital Data

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS8-15	4DU8-15+	4DS8-15	6DU5-56	4DS8-15	6DU5-48
4DS8-15	4DU8-24	4DS8-15	6DU5-96	4DU5-96	4DU5-96
4DS8-15	4DU8-48	4DU5-24	4DU5-24	6DU5-24	6DU5-24
4DS8-15	4DU8-56	4DU5-48	4DU5-48	6DU5-48	6DU5-48
4DS8-15	6DU5-96	4DU8-56	4DU5-56	6DU5-56	6DU5-56
4DS8-15	6DU5-24	4DS9-15	4DU5-19	6DU5-96	6DU5-96
4DS9-15B	4DU5-64	4DS6-44A	4DU5-64	4DS6-44A	4DU5-19

+ Available only as a cross connect of two digital circuits at appropriate digital speeds at a Telephone Company hub.

## ACCESS SERVICE

9. Interface Groups, Transmission Specifications and Channel Codes (Cont'd)9.3 Channel Interface and Network Channel Codes (Cont'd)9.3.5 Compatible Channel Interfaces (Cont'd)(C) High Capacity

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DSO-63	4DSO-63	4DS8-15	4DU8-8
4DSO-63	6DU8-A,B or C	4DS8-15J	6DU8-A
4DSO-63	4DU8-A,B or C	4DS8-15J	4DU8-A
4DS6-27	4DS6-27	4DS8-15K	6DU8-B
4DS6-27	6DU8-A,B or C	4DS8-15K	4DU8-B
4DS6-27	4DU8-A,B or C	4DS8-15K	6DU8-C
4DS6-44	4DS6-44	4DS8-15K	4D78-C
4DS6-44	6DU8-A,B or C	4DS9-31	4DS9-31
4DS6-44	4DU8-A,B or C	4DS9-31	6DU8-A,B or C
4DS8-15	4DS8-15+	4DS9-	4DU8-A,B or C
4DS8-15	6DU8-B	4DU9-A,B or C	4DU8-A,B or C
4DS6-44A	4DU5-19	4DS9-15	4DU5-19
4DS6-44A	4DU5-64	4DS9-15B	4DU5-64

Available only as a cross connect of two individual circuits of 1.544 Mbps facilities at a Telephone Company hub.

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10. Reserved For Future Use

## ACCESS SERVICE

11. Special Facilities Routing of Access Services11.1 Description of Special Facilities Routing of Access Services

The services provided under this service guide are provided over such routes and facilities as the Telephone Company may elect. Special Facilities Routing is involved when, in order to comply with requirements specified by the customer, the Telephone Company provides Switched Access Service, Special Access Service or Special Federal Government Access Service in a manner which includes one or more of the following conditions:

11.1.1 Diversity

Two or more services must be provided over not more than two different physical routes. Diversity is a Basic Service Element (BSE) under the Telephone Company's Open Network Architecture (ONA) Plan.

11.1.2 Avoidance

A service must be provided on a route which avoids specified geographical locations.

In order to avoid the compromise of special routing information, the Telephone Company will provide the required routing information for each specially routed service to only the ordering customer. If requested by the customer, this information will be provided when service is installed and prior to any subsequent changes in routing.

## ACCESS SERVICE

11. Special Facilities Routing of Access Services (Cont'd)11.2 Rates and Charges for Special Facilities Routing of Access Service

The rates and charges for Special Facilities Routing of Access Services as set forth in 11.2 following are in addition to all other rates and charges that may be applicable for services provided under other sections of this service guide.

11.2.1 Diversity

For each service provided in accordance with 11.1.1 preceding, the rates and charges will be developed on an individual case basis and filed following:

<u>Customer Name</u>	<u>Description and Location</u>	<u>MTL/NRC MRC</u>	<u>Termination Liability Period</u>
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11.2.2 Avoidance

For each service provided in accordance with 11.1.2 preceding, the rates and charges will be developed on an individual case basis and filed following:

## ACCESS SERVICE

12. Specialized Service or Arrangements12.1 General

Specialized Service or Arrangements may be provided by the Telephone Company, at the request of a customer, on an individual case basis if such service or arrangements meet the following criteria:

- The requested service or arrangements are not offered under other sections of this service guide.
- The facilities utilized to provide the requested service or arrangements are of a type normally used by the Telephone Company in furnishing its other services.
- The requested service or arrangements are provided within a LATA.
- The requested service or arrangements are compatible with other Telephone Company services, facilities, and its engineering and maintenance practices.
- This offering is subject to the availability of the necessary Telephone Company personnel and capital resources.

12.2 Rates and Charges

Rates and charges and additional regulations, if applicable, for specialized service or arrangements provided on an individual case basis are filed following:

ACCESS SERVICE

13. Reserved For Future Use



ACCESS SERVICE

14. Reserved For Future Use

ACCESS SERVICE

15. Reserved For Future Use

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16. Reserved For Future Use

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17. Reserved For Future Use

ACCESS SERVICE

18. Reserved For Future Use

ACCESS SERVICE

19. Reserved For Future Use

## ACCESS SERVICE

20. Optical Networking

Effective March 1, 2022 CUSTOM CONNECT with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.

20.1 General

This section contains the rules and regulations pertaining to the provisioning of SONET Access and Dense Wave Division Multiplexing (DWDM) Service. The regulations and rates specified herein are in addition to the applicable rates and regulations specified in other Sections of this service guide.

This service supports asynchronous bandwidth capacities at 1.5 Mbps and 45 Mbps in addition to synchronous Optical Carrier (OC) bandwidth capacities at OC3, OC3c, OC12, OC12c, OC48, OC48c and OC192 bit rates and 1.25 Gbps or 2.5 Gbps wavelengths. The SONET add/drop multiplexer aggregates lesser bit speed services onto the dedicated SONET ring or the two-point SONET circuit configuration.

## ACCESS SERVICE

20. Optical Networking20.2 Description

Optical Networking is comprised of high speed SONET based and/or Dense Wave Division Multiplexing (DWDM) technology providing connectivity at, and transport between, two or more customer designated locations (CDLs).

All traffic must originate and/or terminate at the IC customer location.

20.3 Conditions

Optical Networking services are provided where facilities are available with sufficient bandwidth capacity to meet the customers request.

The customer is responsible for providing all facilities and cabling necessary to connect customer equipment to this interface.

Customer Facility Assignment (CFA) is controlled by the Telephone Company, on all non-interexchange access customer serving wire centers on the IOF and extends to the terminating CDL. Should the customer require control of the facility assignment and order multiplexing on the IOF, the services from the multiplexer to the end user serving wire center will be ordered from Section 7 of this service guide.



## ACCESS SERVICE

20. Optical Networking (Cont'd)20.3 Conditions (Cont'd)

It is the customer's responsibility to ensure that the customer's equipment provides industry standard electrical signals compatible with Optical Networking transport transmission. Technical specifications are contained in the following publications:

Bellcore Document GR-253-CORE, Issue 2, April, 1996  
Bellcore Document GR-1400-CORE, Issue 1, March, 1994  
Bellcore Document GT-1374-CORE, Issue 1, March, 1994  
American National Standard, ANSI T1.105-1996  
American National Standard, ANSI T1.102-1993

The Company will work cooperatively with the customer during a planning session to insure that the customer orders sufficient Optical Networking bandwidth capacity to satisfy the customer's requirements as well as other applicable Optical Networking services. This planning session must take place prior to an initial Optical Networking ASR.

## ACCESS SERVICE

20. Optical Networking (Cont'd)20.4 Application of Rates and Charges

The Connect rate element provides the platform for customer access to the Telephone Company's Optical Network. The Connect element provides the link between the CDL and the SWC of the CDL.

## (A) There are three types of Connects:

Single Route Connect*	-	Jointly Provided Custom Connect*
Dual Route Connect*	-	Wholly Provided Custom Connect*
Ring Connect*	-	
CO Connect*	-	
Shared Connect*	-	Custom Connect <sup>[1]</sup>

## (1) Single Route Connect\*

The Single Route provides a connection to the Telephone Company's wire center(s) via a point-to-point route configuration. The Single Route Connect may be provided as electrical or optical interface in OC bandwidths of OC3, OC12, OC24 or OC48.

## (2) Dual Route Connect\*

The Dual Route Connect provides a connection to the Telephone Company's wire center(s) in which the working transmission path traverses a distinct and separate path from the protection transmission path. The Dual Route Connect may be provided as electrical or optical interface in OC bandwidths of OC3, OC12, OC24 or OC48.

## (3) Ring Connect\*

The Ring Connect provides a connection to the Telephone Company's wire centers via a ring topology that provides no single point of failure. The Ring Connect has a minimum of three nodes one of which must be a Telephone company wire center. The Ring Connect may be provided as either electrical or optical interface in OC bandwidths of OC3, OC12, OC24 or OC48. When two of the nodes are customer designated locations, at least one of those nodes must be electrical.

\* Grandfathered to existing service effective December 26, 1998.

<sup>[1]</sup> Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

## ACCESS SERVICE

20. Optical Networking (Cont'd)20.4 Application of Rates and Charges (Cont'd)(A) Connect (Cont'd)

## (4) CO Connect\*

The CO Connect provides access to the Telephone Company's Optical Networking platform. The CO Connect is provided at DS3, DS1 and DS0 levels. The appropriate special access line from Section 7 will apply.

When a CO Connect is provided at a DS3 or DS1 level, the customer may order multiplexing, as shown in Section 7, at the end user serving wire center. The customer will be charged for the multiplexing in addition to the CO Connect.

When a CO Connect is ordered at a DS0 level, the customer must request a minimum of a DS1 interface at the IC customer wire center and will be charged for the appropriate payload (i.e., DS1 or DS3) at the IC customer wire center.

## (5) Shared Connect\*

The Shared Connect is a SONET based DS1 or DS3 that is provided on a shared SONET facility basis to multiple customer designated locations. The Shared Connect is only available where existing SONET infrastructure is in place.

The Shared Connect may be provided as either a dual route or as ring topology.

## (6) Jointly Provided Custom Connect (Custom Connect - JP)\*

The Jointly Provided Custom Connect provides a connection to the Telephone Company's SONET wire center(s) to an access customer's designated location (CDL) where service is provided by another telephone company. The Jointly Provided Custom Connect is mileage sensitive and may be provided in OC bandwidths of OC3, OC12, OC24 and OC48 as an electrical option only, i.e., GTE provided electronics. Mileage will be calculated based on the V&H coordinates of the wire centers comprising each segment of the connect. The meet point billing mileage calculation is specified in 2.4.7.

\* Grandfathered to existing service effective December 26, 1998.

## ACCESS SERVICE

20. Optical Networking (Cont'd)20.4 Application of Rates and Charges (Cont'd)(A) Connect (Cont'd)

## (6) Jointly Provided Custom Connect (Custom Connect - JP)\* (Cont'd)

Payloads are included in the monthly rate for the Jointly Provided Custom Connect. However, access to CDLs provided by the Telephone Company require other Optical Networking rate elements as ordered by the customer, i.e., Ring Connect and Payloads, CO Connect and SAL(s), Transport, etc.

## (7) Wholly Provided Custom Connect (Custom Connect - WP)\*

The Wholly Provided Custom Connect provides a connection to the Telephone Company's SONET wire center(s), an interexchange access customer designated location (CDL), and the access customer's end user CDL(s) via a ring topology. The Wholly Provided Custom Connect may be provided in OC bandwidths of OC3, OC12 or OC48.

The Wholly Provided Custom Connect is comprised of four rate elements, CDL Node, CO Node, Custom Connect (CC) Transport and CC Rider. The CDL Node rate element is applicable for each customer designated location, the CO Node is applicable for each central office that is equipped with a fiber optic terminal in which the customer requests the ability to add/drop traffic to a CDL and the CC Transport rate element is applicable for transport from the serving wire centers of the customer designated locations and CO Nodes. The CC Rider is the customer service riding the CC Transport. The CC Rider may be provided at DS1, DS3, OC3 and OC3c bandwidth levels as required by the customer. The bandwidth of the CDL Nodes, CO Nodes and CC Transport rate elements must be the same.

The CC Transport provides distance sensitive transport on a ring topology. The transport is measured from the primary serving wire centers of the customer designated locations and the CO Nodes.

In addition to the Wholly Provided Custom Connect rate elements, the appropriate special access line (SAL) from Section 5 is applicable from the CO Node to the customer designated location where traffic is entering the Wholly Provided Custom Connect at a DS1 or DS3 bandwidth level as required by the customer.

The Wholly Provided Custom Connect may be ordered as Switched or Special Access.

\* Grandfathered to existing service effective December 26, 1998.

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20. Optical Networking (Cont'd)

20.4 Application of Rates and Charges (Cont'd)

(A) Connect (Cont'd)

(8) Reserved For Future Use

(9) Reserved For Future Use

## ACCESS SERVICE

20. Optical Networking (Cont'd)20.4 Application of Rates and Charges (Cont'd)(A) Connect (Cont'd)(10) Custom Connect <sup>[1]</sup>

The Custom Connect provides a connection to the Telephone company's Optical network and an access customer's designated location (CDL). The Custom Connect is comprised of CO Nodes, CDL Links, Transport and Riders. Each Custom Connect must consist of a minimum of two customer designated locations, one of which must be a CDL Link.

(a) CO Node

The CO Node rate element is applicable for each central office that is equipped with a fiber optic terminal in which the customer requests the ability to add/drop traffic to a CDL. If the customer wants to drop traffic below a DS3 at the CO Node, the customer must request a minimum DS1 interface and special access line from Section 5. The CO Node may be ordered at an OC3, OC12, OC48 or OC192 bandwidth capacity. The OC192 CO Node cannot drop traffic below an OCn level. The CO Node may be ordered under a one (1) year, three (3) year, five (5) year or seven (7) year Term Payment Plan (TPP).

The CO Node may be ordered when a customer requires OC level multiplexing on the Custom Connect.

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year. CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.

## ACCESS SERVICE

20. Optical Networking (Cont'd)20.4 Application of Rates and Charges (Cont'd)

## (A) Connect (Cont'd)

(10) Custom Connect <sup>[1]</sup> (Cont'd)CDL Link

The CDL Link rate element is applicable for each customer designated location in which the customer requests the ability to add/drop traffic. The CDL Link is offered as Single Route, Diverse Route or Ring Route and may be ordered with or without Telephone Company provided electronics as OC3, OC12, OC48 or OC192 bandwidth capacity. Only one CDL Link per connect may be ordered without electronics.

If more than two Links or Nodes are ordered on the same order, the CDL Link must be ordered as a Ring Route CDL Link. A Custom Connect ordered via a ring topology will be provided with a service guarantee as shown in 2.4.4(A)(8).

The CDL Link may also be ordered as OC3c, OC12c or OC48c Single Route or Diverse Route with Telephone Company provided electronics. OC3c, OC12c and OC48c rider charges are included in the monthly rate for OC3c, OC12c and OC48c CDL Links.

The CDL Link may also be ordered as 1.25 and 2.5 Gbps Single Route or Diverse Route. This CDL Link cannot ride a higher level facility and can only be ordered CDL to CDL.

The CDL Link may be ordered under a one (1) year, three (3) year, five (5) year or seven (7) year TPP.

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year. CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.

## ACCESS SERVICE

20. Optical Networking (Cont'd)20.4 Application of Rates and Charges (Cont'd)

## (A) Connect (Cont'd)

(10) Custom Connect <sup>[1]</sup> (Cont'd)CDL Link with Optical Cross Connect

The CDL Link with Optical Cross Connect provides the communications path between the Telephone Company provided electronics and a customer's transmission equipment and facilities where the customer is provided EIS as defined in Section 17. This rate element includes the CDL Link from the fiber optic terminal and the optical jumpers to facilitate the cross connect to the customer's transmission equipment and facilities within the Telephone Company wire center.

The CDL Link with Optical Cross Connect will be provided as single route without telephone company provided electronics as OC3, OC3c, OC12, OC12c, OC48, OC48c or OC192 as ordered by the customer.

In addition to the rate for the CDL Link with Optical Cross Connect, the appropriate CDL Link rate element is applicable from the customer-designated location to the serving wire center.

The CDL Link with Optical Cross Connect may be ordered under a one (1) year, three (3) year, five (5) year or seven (7) year TPP.

Rates for the CDL Link with Optical Cross Connect are as shown in 20(K)(3) will apply in addition to other charges as specified in Section 17.

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year. CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.



## ACCESS SERVICE

20. Optical Networking (Cont'd)20.4 Application of Rates and Charges (Cont'd)

## (A) Connect (Cont'd)

(10) Custom Connect <sup>[1]</sup> (Cont'd)Transport

Transport may be ordered as shared or dedicated. Shared Transport is applicable when the transport between Node and/or Links is ordered at different bandwidth levels. The Dedicated Transport is applicable when transport between the Nodes and/or Links is of the same bandwidth level.

Shared Transport may be ordered in bandwidths of DS1, DS3/STS1, OC3, OC3c, OC12, OC12c, OC48 or OC48c. Dedicated Transport may be ordered in bandwidths of OC3, OC3c, OC12, OC12c, OC48, OC48c or OC192, 1.25 Gbps or 2.5 Gbps. The transport is mileage sensitive and will be calculated based on the V&H coordinates of the wire centers comprising each segment of the connect. The meet point billing mileage calculation is specified in 2.7.3. The customer has the option to subscribe to \*Banded Optical Transport in place of Custom Connect Shared Transport.

The Transport is provided at a flat-rated monthly recurring charge.

Rider

The Rider is the customer's service(s) traversing the CDL Link. Riders may be provided at DS1, DS3, STS1, OC3, OC12, OC48, 10M, 20M, 50M, 100M, 150M, 300M, 450M, 600M or 1G bandwidth levels as required by the customer. The DS1 and DS3 rider may not be utilized on an OC192 facility.

The Rider is provided at a flat-rated monthly recurring charge which includes add/drop multiplexing and is applicable per rider circuit with the exception of OC3c, OC12c, and OC48c CDL Links.

Intrastate riders may be transported on the customer's interstate Optical Networking facility.

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year. CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.

\* Grandfathered to existing service effective December 26, 1998.

## ACCESS SERVICE

20. Optical Networking (Cont'd)20.4 Application of Rates and Charges (Cont'd)

## (A) Connect (Cont'd)

(10) Custom Connect <sup>[1]</sup> (Cont'd)Regeneration Charge

Due to the technical limitations of SONET facilities, additional regeneration equipment may be required for essential detection and retransmission of SONET signals between the customer's premises and the Telephone Company serving wire center for that premise. Additional regeneration equipment will only be provided by the Telephone Company when the actual fiber facility distance between the customer's premise and serving wire center exceeds SONET design limits.

A monthly recurring sonnet Regeneration charge, as set forth in 20.11 following, will apply for each regenerator required for the provision of Custom Connect service.

Capacity Reconfiguration Charge

Upon ordering Custom Connect service, the customer is responsible for identifying the STS signal configuration. This information is used in determining the route and connection in the network.

If a new configuration is requested subsequent to the initial activation, a service reconfiguration charge will apply on a per service basis, as set forth in 20.11. The service reconfiguration charge is in addition to all applicable configuration node and configuration rider charges associated with the new configuration.

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year. CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.

## ACCESS SERVICE

20. Optical Networking (Cont'd)20.4 Application of Rates and Charges (Cont'd)

## (B) Optical Network Transport \*

The transport element provides for the interoffice Optical Networking designated transport between wire centers on Telephone Company defined LANs. Each IC customer Connect must have its own transport. Transport cannot be shared among IC customer Connects.

Optical Network Transport\* may be provided as LAN-wide, LAN-wide Premium, Point-to-Point, or Ring Per-Mile Transport in bandwidth capacities of OC1, OC3, OC12, OC24 and OC48. J-SONET Transport may be purchased in DS0, DS1 or DS3 bandwidths. Band SONET Transport may be purchased in DS0, DS1, DS3, OC3 or OC12 Bandwidths.

- (1) LAN-wide Transport\* provides transport between two or more Optical Networking designated wire centers located on the IOF transport. LAN-wide Transport is provided at a non-distance sensitive flat-rated monthly charge per LAN traversed. LAN-Wide Transport is not guaranteed. However, the customer will have protection routing topology. Multiple Connects served from any of the Optical Networking designated terminating wire center on the LAN may utilize this element.
- (2) LAN-wide Premium Transport\* provides the same as LAN-wide Transport. Provisioning of LAN-wide Premium Transport provides a quicker restoral time. LAN-wide Premium Transport is provided at a flat-rated monthly charge per LAN traversed.
- (3) Point-to-Point Transport\* provides transport between the serving wire centers associated with two CDLs. Point-to-Point Transport is provided at a distance sensitive rate on a per airline mile basis. Mileage is measured between the wire centers of the customer designated locations. Point-to-Point Transport may be ordered as switched or special access.
- (4) Ring Per-Mile Transport\* provides distance sensitive transport on a ring topology. The transport is measured in airline miles from the primary serving wire centers of the customer designated locations.

Ring Per-Mile Transport provides a service guarantee as shown in 2.4.4(A).

\* Grandfathered to existing service effective December 26, 1998.

## ACCESS SERVICE

20. Optical Networking (Cont'd)20.4 Application of Rates and Charges (Cont'd)(B) Optical Network Transport (Cont'd)

- (5) J-SONET Transport\* provides transport between the serving wire centers of the CDLS. J-SONET Transport may be provided at DS0, DS1 or DS3 bandwidth levels as required by the customer. The bandwidth of the transport must be the same as the bandwidth of the CO Connect or the payload, e.g., DS0 J-SONET requires a DS0 connect and DS3 J-SONET Transport requires a DS3 CO Connect.

J-SONET Transport is provided at a non-distance sensitive flat rated monthly charge per LAN traversed.

- (6) Banded Optical Transport\* provides transport between the serving wire center of the interexchange access customer's location and the access customer's end user premises. Banded Optical Transport may be provided at DS0, DS1, DS3, OC3, STS1, OC12 or OC48 bandwidth levels as required by the customer. Wholly provided Banded Optical Transport may also be provided at OC3c, OC12c or OC48c bandwidth levels. When Banded Optical is ordered at a DS0 level, the customer must request a minimum of a DS1 interface at the IC customer wire center and will be charged the appropriate rider (i.e., DS1 or DS3). Banded Optical Transport is provided with a service guarantee as shown in 2.4.4(A)(8). For subscription to Banded Optical Transport, the customer must have an accumulative demand requirement equivalent to an average of nine DS3s, i.e., 5,978 channels, per LATA, per state. The bandwidth will be reviewed annually at a mutually agreed upon date by the customer and the Company. An allowance of minus 2% will be considered as having met the commitment level. Should the bandwidth fall below minus 2%, the customer will have thirty (30) days to meet the bandwidth requirement. If not met, the customer will be notified by the Telephone Company and will be required to convert from Banded Optical Transport to another Optical Network Transport option.

\* Grandfathered to existing services effective Dec 26, 1998.

## ACCESS SERVICE

20. Optical Networking (Cont'd)20.4 Application of Rates and Charges (Cont'd)

## (B) Optical Network Transport (Cont'd)

## (6) (Cont'd)

Banded Optical Transport\* is provided at a flat-rated monthly charge for one (1) year, three (3) year, five (5) year, or seven (7) year contract periods. The contract period for Banded Optical Transport cannot exceed the contract period of the Connect. Banded Optical Transport includes the special access line from the end user serving wire center to the end user premises, for both on-net and off-net, with the exception of jointly provided Banded Optical Transport. Banded Optical Transport will be provisioned at the highest network facility available at the time of the order. The monthly rate will be determined based on the mileage between the serving wire centers of the customer designated locations and is applicable on a per circuit basis. Mileage will be rounded up to the next whole mile except when the CDLs are collocated.

When both customer designated locations are provided by the Telephone Company, wholly provided, the monthly rates as shown in 20.11 are applicable. When one of the customer designated locations is provided by another telephone company, or the customer terminates at a multiplexer in a wire center on IOF, jointly provided, the monthly rates as shown in 20.11 shall apply. For jointly provided transport with another telephone company, the meet point billing mileage calculation is specified in Section 2.7.3.

\* Grandfathered to existing services effective Dec 26, 1998.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.4 Application of Rates and Charges (Cont'd)

## (D) Payload\*

Payload is the customer service riding on the shared IOF transport and/or the activation of the service(s). Payload is provided at a flat-rated monthly recurring charge which includes add/drop multiplexing and is applicable at the wire center for each customer designated location, with the exception of CO Connects, Banded Optical Transport and Wholly Provided Custom Connect. Payload services include DS1, DS3, OC3, OC3c, OC12, OC12c and STS1.

20.5 Reserved For Future Use20.6 Incremental Growth

Incremental Growth facilitates a customer's growth in increments of OC3. Incremental Growth applies only to Connect.

\* Grandfathered to existing service effective December 26, 1998.

## ACCESS SERVICE

20. Optical Networking (Cont'd)20.7 Rate Regulations<sup>[1]</sup>

Optical Networking may be ordered under a one (1), three (3), five (5), or seven (7) year Term Payment Plan (TPP). Any TPP for these services is subject to a TPP Termination Liability Charge as specified herein.

When ordered together, the TPP applies to Connects and Banded Optical Transport.

(A) Changes in Length of a TPP<sup>[1]</sup>

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

- No credit will be given for the new period for payments made under the original TPP arrangement.
- NRCs will not be reapplied for existing services.
- If the new TPP period is shorter in length than the time remaining under the existing TPP, the change to the new TPP period constitutes a disconnect of the existing TPP service and termination liability charges will apply.
- The rates for the new period will be the rates currently in effect at the time of the change.
- If the customer subscribes to a new TPP which is greater in length than the initial TPP term and discontinues one or all of the service elements prior to the expiration of the new termination liability period, the termination liability, as set forth below, will apply based on the remainder of the TPP period in effect at the time of the disconnect.

<u>Year in which Service Is Discontinued</u>	<u>Liability Rate</u>
1	100%
2	75%
3	50%
4 or more	25%

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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20. Optical Networking (Cont'd)20.7 Rate Regulations <sup>[1]</sup> (Cont'd)(B) Renewal Options

Ninety (90) days prior to the expiration of the existing TPP, the customer shall submit in writing to select current month-to-month/1 year service rates or disconnect service. If no notice is received, the Company will automatically renew at month-to-month rates/one year rates from the current service guide.

After completion of the initial TPP term and the customer subscribes to a new term that is longer in length the termination liability, as set forth below, will apply based on the remainder of the TPP period in effect at the time of the disconnect.

<u>Year in which Service Is Discontinued</u>	<u>Liability Rate</u>
1	20%
2	15%
3	10%
4 or more	5%

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.



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20. Optical Networking (Cont'd)20.7 Rate Regulations <sup>[1]</sup> (Cont'd)(C) Conversion

When an existing customer purchases Optical Networking, the customer may upgrade their existing special access services to Optical Networking. The upgrade may require physical network changes, as well as changes to existing billing arrangements. Physical changes consist of terminating existing services not currently utilizing the Optical network.

Termination liability charges will not apply to the customer's existing services provided the Optical Networking TPP term commitment agreement is equal to or longer in length than the time remaining for the existing arrangement.

(D) Rate Changes

The TPP rates are exempt from Telephone Company initiated increases for the length of the plan, however, decreases will be passed on to the customer. Rate changes may occur as a result of FCC action.

(E) Termination Liability

In the event the customer discontinues one or all of the service elements (Connect, Banded Optical Transport\*) prior to the end of the initial termination liability period, termination liability charges, as set forth below, will apply based on the remainder of the TPP period in effect at the time of the disconnect.

<u>Year in which Service Is Discontinued</u>	<u>Liability Rate</u>
1	40%
2	35%
3	30%
4 or more	25%

(F) Termination Without Liability

For Banded Optical Transport\*, termination charges will not apply when the customer disconnects a DS0 or DS1 on a circuit by circuit basis provided the required accumulative bandwidth is met as shown in 20.7(E).

\* Grandfathered to existing services effective Dec 26, 1998.

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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20. Optical Networking (Cont'd)20.7 Rate Regulations <sup>[1]</sup> (Cont'd)(G) Upgrade to Higher Bandwidth

The Customer who has grown incrementally, may elect to upgrade service to a higher bandwidth during an TPP period to gain economic efficiencies. Termination charges will not apply as long as the upgraded service remains connected at the same points of termination unless the network is being redesigned to gain network efficiency. Nonrecurring charges associated with the new bandwidth upgrade shall apply.

20.8 Off-Net Wire Center

Off-Net wire center is a wire center not a designated Optical Networking wire center office. The customer may order a DS0, DS1 or DS3 to the Off-Net wire center. Mileage charges will be determined based on airline miles to the nearest on-net wire center at the transport rates shown in Section 7.

Circuits connected to the Off-Net wire center will be billed existing rates as shown in Section 7.

20.9 Shared Use

Shared Use is the provisioning of Switched Access over Optical Networking. Rating as Optical Networking will continue to apply regardless of whether a portion of the available Optical Networking capacity is used to provide Switched Access service. The practice known as "ratcheting" (to apply non-Special Access rates on a proportional basis) shall not apply in any circumstance.

(C)  
(N)  
(D)

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

(D)

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20. Optical Networking (Cont'd)

20.9 Shared Use (Cont'd)

(D)

(D)

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.10 Optical Networking LANs \*

<u>Jurisdiction</u>	<u>CLLI</u>	<u>Wire Center</u>	<u>LAN Name</u>	<u>Contiguous LAN</u>
MO	WNTLMOXA	Wentzville	Wentzville	
MO	OFLNMOXA	O'Fallon	Wentzville	
MO	STPRMOXA	St. Peters	Wentzville	

\* Grandfathered to existing services effective Dec 26, 1998.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges(A) Custom Connect - CO Node - OC3

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
<u>Jurisdiction</u>				
Alabama	\$197.00	\$2,034.50		
Missouri	\$1,500.00	\$1,300.00		
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
<u>Jurisdiction</u>				
Alabama	\$1,465.00	\$1,360.00	\$1,260.00	
Missouri	\$900.00	\$850.00	\$825.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CO Node - OC12

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>	
<u>Jurisdiction</u>			
Alabama	\$197.00	\$3,393.00	
Missouri	\$3,000.00	\$2,990.00	
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
<u>Jurisdiction</u>			
Alabama	\$2,435.00	\$2,260.00	\$2,085.00
Missouri	\$2,200.00	\$2,100.00	\$2,000.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CO Node - OC48

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
<u>Jurisdiction</u>				
Alabama	\$197.00	\$4,699.50		
Missouri	\$3,000.00	\$5,850.00		
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
<u>Jurisdiction</u>				
Alabama	\$3,375.00	\$3,130.00	\$2,900.00	
Missouri	\$4,300.00	\$4,100.00	\$3,900.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CO Node – OC192 <sup>(1)</sup>

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>	
<u>Jurisdiction</u>			
Alabama	\$197.00	\$6,506.50	
Missouri	\$6,000.00	\$14,625.00	
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
<u>Jurisdiction</u>			
Alabama	\$4,680.00	\$4,335.00	\$4,035.00
Missouri	\$10,750.00	\$10,250.00	\$9,750.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year. CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.



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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Telephone Company Electronics - OC3

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
<u>Jurisdiction</u>				
Alabama	\$315.00	\$4,485.00		
Missouri	\$3,000.00	\$1,417.00		
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
<u>Jurisdiction</u>				
Alabama	\$2,560.00	\$2,255.00	\$2,000.00	
Missouri	\$1,100.00	\$1,050.00	\$1,000.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route without Telephone Company Electronics - OC3

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
<u>Jurisdiction</u>				
Alabama	\$315.00	\$3,068.00		
Missouri	\$1,500.00	\$910.00		
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
<u>Jurisdiction</u>				
Alabama	\$1,750.00	\$1,540.00	\$1,370.00	
Missouri	\$650.00	\$620.00	\$600.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Telephone Company Electronics - OC3c

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
<u>Jurisdiction</u>				
Alabama	\$315.00	\$5,960.50		
Missouri	\$6,000.00	\$4,550.00		
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
<u>Jurisdiction</u>				
Missouri	\$3,610.00	\$3,235.00	\$2,910.00	
Alabama	\$3,200.00	\$3,050.00	\$2,900.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Telephone Company Electronics - OC12

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$5,460.00		
Missouri	\$6,000.00	\$3,575.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Alabama	\$3,250.00	\$2,900.00	\$2,600.00	
Missouri	\$2,450.00	\$2,300.00	\$2,150.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route without Telephone Company Electronics - OC12

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>	
<u>Jurisdiction</u>			
Alabama	\$315.00	\$3,601.00	
Missouri	\$1,500.00	\$910.00	
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
<u>Jurisdiction</u>			
Alabama	\$2,140.00	\$1,910.00	\$1,710.00
Missouri	\$650.00	\$620.00	\$600.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Telephone Company Electronics - OC12c

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
<u>Jurisdiction</u>				
Alabama	\$315.00	\$13,903.50		
Missouri	\$6,000.00	\$8,970.00		
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
<u>Jurisdiction</u>				
Alabama	\$9,335.00	\$8,530.00	\$7,815.00	
Missouri	\$6,480.00	\$6,270.00	\$6,050.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Telephone Company Electronics - OC48

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$13,227.50		
Missouri	\$6,000.00	\$6,045.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Alabama	\$8,850.00	\$8,080.00	\$7,400.00	
Missouri	\$4,230.00	\$4,020.00	\$3,800.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route without Telephone Company Electronics - OC48

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$7,579.00		
Missouri	\$1,500.00	\$910.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Alabama	\$5,070.00	\$4,630.00	\$4,240.00	
Missouri	\$650.00	\$620.00	\$600.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.



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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Telephone Company Electronics – OC48c

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$35,503.00		
Missouri	\$6,000.00	\$16,250.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Alabama	\$24,100.00	\$22,515.00	\$21,060.00	
Missouri	\$12,250.00	\$12,000.00	\$11,750.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Telephone Company Electronics – OC192<sup>[1]</sup>

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$32,045.00		
Missouri	\$12,000.00	\$15,112.50		
<u>Jurisdiction</u>	<u>Three Year<sup>[1]</sup> Monthly Rate</u>	<u>Five Year<sup>[1]</sup> Monthly Rate</u>	<u>Seven Year<sup>[1]</sup> Monthly Rate</u>	
Alabama	\$24,100.00	\$22,515.00	\$21,060.00	
Missouri	\$11,200.00	\$11,000.00	\$10,900.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year. CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route without Telephone Company Electronics – OC192 <sup>(1)</sup>

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>			
			<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Alabama	\$315.00	\$15,951.00			
Missouri	\$1,500.00	\$910.00			
<u>Jurisdiction</u>			<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Alabama	\$12,010.00	\$11,225.00			\$10,515.00
Missouri	\$650.00	\$620.00			\$600.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year. CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Diverse Route with Telephone Company Electronics - OC3

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$6,727.50		
Missouri	\$3,000.00	\$2,327.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Alabama	\$3,840.00	\$3,383.00	\$3,000.00	
Missouri	\$1,700.00	\$1,650.00	\$1,600.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Diverse Route without Telephone Company Electronics - OC3

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$5,525.00		
Missouri	\$3,000.00	\$1,690.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Alabama	\$3,150.00	\$2,770.00	\$2,605.00	
Missouri	\$1,250.00	\$1,220.00	\$1,200.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Diverse Route with Telephone Company Electronics - OC3c

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$8,944.00		
Missouri	\$6,000.00	\$5,330.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Alabama	\$5,415.00	\$4,855.00	\$4,365.00	
Missouri	\$3,800.00	\$3,650.00	\$3,500.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Diverse Route with Telephone Company Electronics - OC12

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
<u>Jurisdiction</u>				
Alabama	\$315.00	\$8,190.00		
Missouri	\$6,000.00	\$4,355.00		
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
<u>Jurisdiction</u>				
Alabama	\$4,875.00	\$4,350.00	\$3,900.00	
Missouri	\$3,050.00	\$2,900.00	\$2,750.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Diverse Route without Telephone Company Electronics - OC12

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$6,480.50		
Missouri	\$3,000.00	\$1,690.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Alabama	\$3,850.00	\$3,440.00	\$3,080.00	
Missouri	\$1,250.00	\$1,220.00	\$1,200.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.



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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Diverse Route with Telephone Company Electronics - OC12c

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$20,858.50		
Missouri	\$6,000.00	\$9,750.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Alabama	\$14,005.00	\$12,795.00	\$11,725.00	
Missouri	\$7,080.00	\$6,870.00	\$6,650.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Diverse Route with Telephone Company Electronics - OC48

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
<u>Jurisdiction</u>				
Alabama	\$315.00	\$19,844.50		
Missouri	\$6,000.00	\$6,825.00		
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
<u>Jurisdiction</u>				
Alabama	\$13,275.00	\$12,120.00	\$11,100.00	
Missouri	\$4,830.00	\$4,620.00	\$4,400.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Diverse Route without Telephone Company Electronics - OC48

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>
Alabama	\$315.00	\$12,883.00
Missouri	\$3,000.00	\$1,690.00

<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Alabama	\$8,620.00	\$7,870.00	\$7,210.00
Missouri	\$1,250.00	\$1,220.00	\$1,200.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Diverse Route with Telephone Company Electronics – OC48c

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>
Alabama	\$315.00	\$53,254.50
Missouri	\$6,000.00	\$17,160.00

<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Alabama	\$36,150.00	\$33,773.00	\$31,590.00
Missouri	\$13,000.00	\$12,500.00	\$12,250.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Diverse Route with Telephone Company Electronics  
- OC192 <sup>(1)</sup>

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>
Alabama	\$315.00	\$48,067.50
Missouri	\$12,000.00	\$17,062.50

<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Alabama	\$36,150.00	\$33,775.00	\$31,590.00
Missouri	\$12,400.00	\$11,550.00	\$11,000.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year. CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Diverse Route without Telephone Company Electronics – OC192 <sup>(1)</sup>

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
<u>Jurisdiction</u>				
Alabama	\$315.00	\$25,525.50		
Missouri	\$3,000.00	\$1,690.00		
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
<u>Jurisdiction</u>				
Alabama	\$19,220.00	\$17,960.00	\$16,825.00	
Missouri	\$1,250.00	\$1,220.00	\$1,200.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year. CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Ring Route with Telephone Company Electronics - OC3

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$8,970.00		
Missouri	\$3,000.00	\$3,627.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Alabama	\$5,120.00	\$4,510.00	\$4,000.00	
Missouri	\$2,700.00	\$2,650.00	\$2,600.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Ring Route without Telephone Company Electronics - OC3

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$6,136.00		
Missouri	\$3,000.00	\$2,990.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Alabama	\$3,500.00	\$3,080.00	\$2,740.00	
Missouri	\$2,250.00	\$2,220.00	\$2,200.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.



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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Ring Route with Telephone Company Electronics - OC12

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$10,920.00		
Missouri	\$6,000.00	\$5,655.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Alabama	\$6,500.00	\$5,800.00	\$5,200.00	
Missouri	\$4,050.00	\$3,900.00	\$3,750.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Ring Route without Telephone Company Electronics - OC12

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Alabama	\$315.00	\$7,202.00		
Missouri	\$3,000.00	\$2,990.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Alabama	\$4,280.00	\$3,820.00	\$3,420.00	
Missouri	\$2,250.00	\$2,220.00	\$2,200.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Ring Route with Telephone Company Electronics - OC48

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>
Alabama	\$315.00	\$26,455.00
Missouri	\$6,000.00	\$8,125.00

<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Alabama	\$17,700.00	\$16,160.00	\$14,800.00
Missouri	\$5,830.00	\$5,620.00	\$5,400.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Ring Route without Telephone Company Electronics - OC48

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>
Alabama	\$315.00	\$15,158.00
Missouri	\$3,000.00	\$2,990.00

<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Alabama	\$10,140.00	\$9,260.00	\$8,480.00
Missouri	\$2,250.00	\$2,220.00	\$2,200.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Ring Route with Telephone Company Electronics – OC192

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>
Alabama	\$315.00	\$64,090.00
Missouri	\$12,000.00	\$20,312.50

<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Alabama	\$48,200.00	\$45,030.00	\$42,120.00
Missouri	\$14,900.00	\$14,050.00	\$13,500.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect – CDL Link – Ring Route without  
Telephone Company Electronics – OC192

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>
Alabama	\$315.00	\$31,902.00
Missouri	\$3,000.00	\$2,990.00

<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Alabama	\$24,020.00	\$22,450.00	\$21,030.00
Missouri	\$2,250.00	\$2,220.00	\$2,200.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route - 1.25 Gbps

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Missouri	\$6,000.00	\$4,641.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Missouri	\$3,450.00	\$3,330.00	\$3,210.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Diverse Route - 1.25 Gbps

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Missouri	\$6,000.00	\$4,985.50		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Missouri	\$3,730.00	\$3,625.00	\$3,525.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.



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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route - 2.5 Gbps

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Missouri	\$6,000.00	\$5,499.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Missouri	\$4,110.00	\$3,990.00	\$3,870.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Diverse Route - 2.5 Gbps

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Missouri	\$6,000.00	\$5,973.50		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Missouri	\$4,485.00	\$4,375.00	\$4,265.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Optical Cross Connect - OC3

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Missouri	\$1,000.00	\$929.50		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Missouri	\$690.00	\$675.00	\$650.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Optical Cross Connect - OC3c

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Missouri	\$1,000.00	\$929.50		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Missouri	\$690.00	\$675.00	\$650.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Optical Cross Connect - OC12

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>
Missouri	\$2,500.00	\$2,132.00

<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Missouri	\$1,590.00	\$1,550.00	\$1,500.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Optical Cross Connect - OC12c

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Missouri	\$2,500.00	\$2,132.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Missouri	\$1,590.00	\$1,550.00	\$1,500.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

Effective: October 4, 2022

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Optical Cross Connect – OC48

<u>Jurisdiction</u>	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
Missouri	\$2,500.00	\$4,485.00		
<u>Jurisdiction</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
Missouri	\$3,350.00	\$3,275.00	\$3,150.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Optical Cross Connect – OC48c

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>	
<u>Jurisdiction</u>			
Missouri	\$2,500.00	\$4,485.00	
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
<u>Jurisdiction</u>			
Missouri	\$3,350.00	\$3,275.00	\$3,150.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.



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20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - CDL Link - Single Route with Optical Cross Connect – OC192 <sup>(1)</sup>

	<u>Nonrecurring Charge</u>	<u>One Year Monthly Rate</u>		
<u>Jurisdiction</u>				
Missouri	\$2,500.00	\$9,425.00		
	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>	
<u>Jurisdiction</u>				
Missouri	\$7,025.00	\$6,850.00	\$6,625.00	

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year. CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.

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20. Optical Networking <sup>[1]</sup> (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - Rider - DS1

	Monthly <u>Rate</u>
<u>Jurisdiction</u>	
Alabama	\$65.00
Missouri	\$97.50

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking <sup>[1]</sup> (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - Rider - DS3

	Monthly Rate
<u>Jurisdiction</u>	
Alabama	\$175.50
Missouri	\$325.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking <sup>[1]</sup>Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - Rider - STS1

	Monthly <u>Rate</u>
<u>Jurisdiction</u>	
Alabama	\$175.50
Missouri	\$325.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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20. Optical Networking <sup>[1]</sup> (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - Rider - OC3

	Monthly Rate
<u>Jurisdiction</u>	
Alabama	\$474.50
Missouri	\$975.00

Custom Connect - Rider – OC12

	Monthly Rate
<u>Jurisdiction</u>	
Alabama	\$1,280.50
Missouri	\$2,925.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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20. Optical Networking <sup>[1]</sup> (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - Rider – OC48

<u>Jurisdiction</u>	<u>Monthly Rate</u>
Alabama	\$3,458.00
Missouri	\$5,850.00

Custom Connect - Rider – 10M

<u>Jurisdiction</u>	<u>Monthly Rate</u>
Alabama	\$135.00
Missouri	\$250.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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20. Optical Networking <sup>[1]</sup> (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - Rider – 20M

	Monthly Rate
<u>Jurisdiction</u>	
Alabama	\$150.00
Missouri	\$275.00

Custom Connect - Rider – 50M

	Monthly Rate
<u>Jurisdiction</u>	
Alabama	\$270.00
Missouri	\$500.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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20. Optical Networking <sup>[1]</sup> (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - Rider – 100M

	Monthly Rate
<u>Jurisdiction</u>	
Alabama	\$300.00
Missouri	\$550.00

Custom Connect - Rider – 150M

	Monthly Rate
<u>Jurisdiction</u>	
Alabama	\$365.00
Missouri	\$675.00

Custom Connect - Rider – 300M

	Monthly Rate
<u>Jurisdiction</u>	
Alabama	\$730.00
Missouri	\$1,350.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.



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## ACCESS SERVICE

20. Optical Networking <sup>[1]</sup> (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - Rider – 450M

	Monthly Rate
<u>Jurisdiction</u>	
Alabama	\$985.00
Missouri	\$1,825.00

Custom Connect - Rider – 600M

	Monthly Rate
<u>Jurisdiction</u>	
Alabama	\$1,085.00
Missouri	\$2,010.00

Custom Connect - Rider – 1G

	Monthly Rate
<u>Jurisdiction</u>	
Alabama	\$1,970.00
Missouri	\$3,650.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

-20. Optical Networking (Cont'd)20.11 Rates and Charges <sup>[1]</sup> (Cont'd)(A) Custom Connect - Shared Transport - DS1Per Mile  
Monthly RateJurisdiction

Alabama	\$91.00
Missouri	\$15.60

Custom Connect - Shared Transport - DS3/STS1Per Mile  
Monthly RateJurisdiction

Alabama	\$234.00
Missouri	\$136.50

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges <sup>[1]</sup> (Cont'd)(A) Custom Connect - Shared Transport - OC3/OC3c

<u>Jurisdiction</u>	<u>Per Mile Monthly Rate</u>
Alabama	\$520.00
Missouri	\$292.50

Custom Connect - Shared Transport - OC12/OC12c

<u>Jurisdiction</u>	<u>Per Mile Monthly Rate</u>
Alabama	\$1,300.00
Missouri	\$585.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking <sup>[1]</sup> (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - Shared Transport – OC48/OC48c

	Per Mile <u>Monthly Rate</u>
<u>Jurisdiction</u>	
Alabama	\$4,225.00
Missouri	\$1,462.50

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking <sup>[1]</sup> (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - Dedicated Transport - OC3/OC3c

<u>Jurisdiction</u>	<u>Per Mile Monthly Rate</u>
Alabama	\$390.00
Missouri	\$221.00

Custom Connect - Dedicated Transport - OC12/OC12c

<u>Jurisdiction</u>	<u>Per Mile Monthly Rate</u>
Alabama	\$871.00
Missouri	\$312.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking <sup>[1]</sup> (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - Dedicated Transport - OC48/OC48c

<u>Jurisdiction</u>	<u>Per Mile Monthly Rate</u>
Alabama	\$2,847.00
Missouri	\$494.00

Custom Connect – Dedicated Transport – OC192 <sup>(1)</sup>

<u>Jurisdiction</u>	<u>Per Mile Monthly Rate</u>
Alabama	\$9,308.00
Missouri	\$715.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year. CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.

## ACCESS SERVICE

20. Optical Networking <sup>[1]</sup> (Cont'd)20.11 Rates and Charges (Cont'd)(A) Custom Connect - Dedicated Transport - 1.25 Gbps

<u>Jurisdiction</u>	<u>Per Mile Monthly Rate</u>
Missouri	\$383.50

Custom Connect - Dedicated Transport - 2.5 Gbps

<u>Jurisdiction</u>	<u>Per Mile Monthly Rate</u>
Missouri	\$481.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)

## (A) Custom Connect – Regeneration Charge – OC3

<u>Jurisdiction</u>	<u>One Year Monthly Rate</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Alabama#	\$2,470.00	\$1,500.00	\$1,300.00	\$1,125.00
Missouri	\$2,470.00	\$1,500.00	\$1,300.00	\$1,125.00

## Custom Connect – Regeneration Charge – OC12

<u>Jurisdiction</u>	<u>One Year Monthly Rate</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Alabama#	\$4,225.00	\$2,600.00	\$2,300.00	\$2,035.00
Missouri	\$4,225.00	\$2,600.00	\$2,300.00	\$2,035.00

## Custom Connect – Regeneration Charge – OC48

<u>Jurisdiction</u>	<u>One Year Monthly Rate</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Alabama#	\$6,240.00	\$4,600.00	\$4,400.00	\$4,210.00
Missouri	\$6,240.00	\$4,600.00	\$4,400.00	\$4,210.00

Custom Connect – Regeneration Charge – OC192 <sup>(1)</sup>

<u>Jurisdiction</u>	<u>One Year Monthly Rate</u>	<u>Three Year <sup>[1]</sup> Monthly Rate</u>	<u>Five Year <sup>[1]</sup> Monthly Rate</u>	<u>Seven Year <sup>[1]</sup> Monthly Rate</u>
Alabama#	\$9,425.00	\$6,875.00	\$6,250.00	\$5,680.00
Missouri	\$9,425.00	\$6,875.00	\$6,250.00	\$5,680.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year. CUSTOM CONNECT OC-192 Point-to-Point configurations are grandfathered as of March 1, 2022 and will no longer be available for new service requests. This does not impact CUSTOM CONNECT OC-192 Multipoint or Ring configurations.



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## ACCESS SERVICE

20. Optical Networking <sup>[1]</sup> (Cont'd)20.11 Rates and Charges (Cont'd)

## (A) Capacity Reconfiguration Charge – per STS1/DS3 equivalent

<u>Jurisdiction</u>	<u>Non-Recurring Charge</u>
Alabama#	\$625.00
Missouri	\$625.00

[1] Effective March 1, 2022 Custom Connect with terms of 36, 60 or 84 months will be grandfathered until the expiration date of the current term. As of this effective date, 36, 60 and 84 month term renewals will not be offered on this plan. Upon expiration of the current term, rates will revert to month-to-month/one year.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(B) Transport - Banded Optical – OC48 (Wholly Provided) \*Jurisdiction

Missouri

One Year  
Monthly RateThree Year  
Monthly Rate

0 miles

\$7,365.00

\$7,200.00

1 - 10 miles

10,600.00

10,200.00

11 - 20 miles

17,070.00

16,800.00

21 + miles

23,545.00

23,200.00

Five Year  
Monthly RateSeven Year  
Monthly Rate

0 miles

\$7,100.00

\$7,000.00

1 - 10 miles

10,000.00

9,800.00

11 - 20 miles

16,500.00

16,200.00

21 + miles

23,000.00

22,800.00

\* Grandfathered to existing service effective December 26, 1998.

Effective: October 4, 2022

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(B) Transport - Banded Optical – OC48c (Wholly Provided) \*Jurisdiction

Missouri

One Year  
Monthly RateThree Year  
Monthly Rate

0 miles

\$10,750.00

\$10,500.00

1 - 10 miles

20,350.00

20,100.00

11 - 20 miles

29,370.00

29,100.00

21 + miles

38,390.00

38,100.00

Five Year  
Monthly RateSeven Year  
Monthly Rate

0 miles

\$10,250.00

\$10,000.00

1 - 10 miles

19,900.00

19,600.00

11 - 20 miles

28,900.00

28,600.00

21 + miles

37,900.00

37,600.00

\* Grandfathered to existing service effective December 26, 1998.

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## ACCESS SERVICE

20. Optical Networking (Cont'd)20.11 Rates and Charges (Cont'd)(C) Transport - Banded Optical – OC48 (Jointly Provided) \*Jurisdiction

Missouri

	<u>One Year Monthly Rate</u>	<u>Three Year Monthly Rate</u>
1 - 10 miles	\$3,235.00	\$3,150.00
11 - 20 miles	9,700.00	9,500.00
21 + miles	16,175.00	15,700.00
	<u>Five Year Monthly Rate</u>	<u>Seven Year Monthly Rate</u>
1 - 10 miles	\$3,050.00	\$2,975.00
11 - 20 miles	9,300.00	9,100.00
21 + miles	15,350.00	15,100.00

\* Grandfathered to existing service effective December 26, 1998.