

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 1-1

Section 1 - Application of Tariff

- 1.1 This tariff contains regulations, rates and charges applicable to the provision of Carrier Common Line Service, Switched and Special Access Services, Directory Assistance Service, Common Channel Signaling Access Service (CCSAS), and Local Exchange Access Services, which are referred to collectively in this tariff as service(s).
- 1.2 The services are provided by the Southern New England Telephone Company, which is referred to in this tariff as the Telephone Company.
- 1.3 The operating territory of the Telephone Company includes the geographical areas set forth in the National Exchange Carrier Association Tariff No. 4 associated with Company Code 5200.
- 1.4 The services in this tariff are provided to any individual, partnership, association, joint-stock company, trust, corporation, governmental entity, other entity allowed by governmental agency or other entity, which subscribes to the services offered under this tariff. These entities are referred to in this tariff as customers.
- 1.5 Provision of the services in this tariff by the Telephone Company does not constitute a joint undertaking with the customer for the furnishing of any service.
- 1.6 References in this tariff to Local and/or General Exchange Service tariffs refer to tariffs of the Telephone Company, which are subject to approval by a state regulatory commission.
- 1.7 References in this tariff to Telephone Company Interstate Access Tariff refer to Frontier Telephone Companies Tariff FCC No. 11, Access Service, which is subject to approval by the Federal Communications Commission.

Section 1 - **THE SOUTHERN NEW ENGLAND TELEPHONE COMPANY
TARIFFS**

Consisting of

TABLE OF CONTENTS

SYMBOLS

ABBREVIATIONS

Section 1	APPLICATION OF TARIFF	
Section 2	GENERAL REGULATIONS	
Section 3	ORDERING REGULATIONS	
Section 4	SWITCHED ACCESS SERVICE	
Section 5	SPECIAL ACCESS SERVICE	
Section 6	TESTING, MAINTENANCE, AND ADDITIONAL LABOR SERVICES	
Section 7	SPECIAL FACILITIES ROUTING OF ACCESS SERVICES	
Section 8	SPECIALIZED ACCESS SERVICES	
Section 9	MISCELLANEOUS SERVICES	
Section 10	SPECIAL CONSTRUCTION	
Section 11	DIRECTORY ASSISTANCE SERVICE	
Section 12	DEDICATED SIGNALING TRANSPORT	
Section 13	OPERATING TERRITORY OF THE TELEPHONE COMPANY	
Section 14	EXPANDED INTERCONNECTION	
Section 15	END USER	
Section 16	ADVANCED COMMUNICATION SERVICES	
Section 17	VIDEO DIALTONE TRIAL-SERVICE	
Section 18	LOCAL EXCHANGE ACCESS SERVICE	
Section 19	SNET SONET NETWORK SERVICE	
Section 20	Toll Services	
Section 21	Interconnection Service For Wireless Carriers	
Section 22	Optical Carrier Network (OCN) Point-to-Point Service	
Section 23	Basic Switched Ethernet Service ² - Grandfathered	(D)
Section 24	Multi-service Optical Network (MON) Ring Service Grandfathered Obsolete) ¹	(T)

¹ MON Ring Service is Grandfathered Obsolete effective December 1, 2012. (T)

² Basic Switched Ethernet Service is grandfathered as of January 1, 2019. (N)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 2

Section 1 - FOR SERVICES FURNISHED IN THE
STATE OF CONNECTICUT

The Southern New England Telephone Company is a wholly-owned subsidiary of Frontier Communications of Connecticut. The Southern New England Telephone Company is also known as Frontier Communications of Connecticut and Frontier Communications of Connecticut Wholesale. Services offered pursuant to this Tariff may be offered under any of these names or under the brand name Frontier. All regulated services offered by The Southern New England Telephone Company, whether under that name, Frontier Communications of Connecticut, or the brand name Frontier, are subject to the terms and conditions of this Tariff. (The Southern New England Telephone Company d/b/a Frontier Communications of Connecticut is referred to throughout this tariff as the "Company," the "Telco," or the "Telephone Company.")

As a result of its consolidation under the Department of Energy and Environmental Protection, the Department of Public Utility Control ("DPUC") was renamed the Public Utilities Regulatory Authority ("PURA") effective July 1, 2011. Wherever "DPUC" is used or referenced in this tariff, "PURA" shall be substituted in lieu thereof.

ISSUED BY
ALLISON ELLIS
VICE PRESIDENT, REGULATORY AFFAIRS
3 HIGH RIDGE PARK, STAMFORD, CT 06905

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 3

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
1	APPLICATION OF TARIFF	1-1
2	GENERAL REGULATIONS	
2.1	Undertaking of the Telephone Company	2-1
2.2	Provision of Service	2-2
2.2.1	General	2-2
2.2.2	Routing of Facilities	2-2
2.2.3	Type of Facilities	2-2
2.2.4	Design Layout Report	2-2
2.2.5	Installation, and Termination of Services	2-2
2.2.6	Substitutions, Changes and Rearrangements	2-3
2.3	Refusal and Discontinuance of Service	2-4
2.4	Telephone Company Liability	2-5
2.5	Obligations of the Customer	2-7
2.5.1	Unlawful and Abusive Use	2-7
2.5.2	Equipment Space and Power	2-7
2.5.3	Design of Customer Services	2-7
2.5.4	References to the Telephone Company	2-8
2.5.5	Assignment or Transfer of Service	2-8
2.5.6	Interference or Impairment	2-8
2.5.7	Damage to Facilities	2-9
2.5.8	Claims and Demands for Damage	2-10
2.6	Connections	2-11
2.7	Switched Access Service for Both Interstate and Intrastate Applications	2-12
2.7.1	Charge Determination	2-12
2.7.2	Initial Jurisdictional Report Requirements	2-13
2.7.3	Projected Intrastate Percentage	2-16
2.7.4	Jurisdictional Report Updates	2-16
2.7.5	Jurisdictional Report Verification	2-17
2.7.6	Special Access Jurisdictional Reporting	2-17
2.7.7	Revisions to Existing Line or Trunk Groups	2-17
2.7.8	Determination of Common Line Charges	2-17
2.7.9	Identification and Rating of VoIP-PSTN Traffic	2-20

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 4

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
2	GENERAL REGULATIONS (Cont'd)	
2.8	Payments Regulations	2-26
2.8.1	Deposits	2-26
2.8.2	Billing & Payment Dates	2-27
2.8.3	Billing Disputes	2-28
2.8.4	Adjustments for Services Established or Discontinued in a Billing Period	2-29
2.8.5	Rounding	2-30
2.8.6	Multiple Copies of Bills	2-30
2.9	Billing of Access Service Provided by Multiple Companies	2-30
2.10.	Minimum Period Regulations	2-31
2.10.1	General	2-31
2.10.2	Minimum Period Charges	2-31
2.10.3	Effect of Rearrangements and Changes on the Minimum Period	2-32
2.11.	Types of Rates & Charges	2-34
2.11.1	Monthly Rates	2-34
2.11.1.1	Optional Payment Plan for High Capacity Services	2-34
2.11.1.2	Daily Rates	2-39
2.11.1.3	Switched Access Commitment Discount Plan	2-40
2.11.2	Usage Sensitive Rates	2-42
2.11.3	Distant Sensitive Rates	2-42
2.11.4	Nonrecurring Charges	2-44
2.11.5	Services Installation Guarantee	2-50
2.11.6	Network Upgrades to SNET SONET Network Service	2-52
2.12	Credit Allowance for Service Interruptions	2-53
2.12.1	General	2-53
2.12.2	When a Credit Allowance Applies	2-53
2.12.3	When a Credit Allowance Does Not Apply	2-60
2.12.4	Use of an Alternate Service During a Service Interruption	2-61
2.12.5	Temporary Surrender of a Service	2-61
2.13	Definitions	2-62

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 5

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>	
3	ORDERING REGULATIONS		
3.1	General	3-1	
3.2	Provision of Basic Customer Information	3-4	
3.3	Access Order Service Date Intervals	3-5	
3.3.1	Negotiated Interval	3-5	
3.4	Access Order Modifications	3-6	
3.4.1	Service Data Change Charge	3-6	
3.4.2	Expedited Order Charge	3-8	
3.4.3	Design Change Charge	3-11	
3.5	Cancellation of an Access Order	3-12	
3.5.1	Cancellation Date	3-12	
3.5.2	Cancellation Charge	3-12	
3.5.3	Cancellation of an Access Order (for the following Special Access Services	3-13	
3.6	Service-Specific Ordering Information	3-20	
3.6.1	Switched Access Service	3-20	
3.6.2	Switched Access Service to a Remote Switching Office	3-24	
3.6.3	Directory Assistance (DA) Service	3-24	
3.6.4	Special Access Service and SNET SONET Network Service	3-25	
3.6.5	WATS Access Line Service (Grandfathered) as of July 31, 2020	3-25	(C)
3.6.6	Special Access Surcharge Exemption	3-25	
3.6.7	Shared Use Facilities	3-25	
3.6.8	500 Access Service, 800 Database Access Service and 900 Access Service	3-26	
3.6.9	Dedicated Signaling Transport (DST)	3-26	
3.6.10	Feature Group D with Signaling System Seven (SS7) Signaling	3-26	
3.6.11	Line Information Data Base (LIDB) Validation Service	3-27	
3.6.12	Reserved for Future Use	3-27	
3.6.13	Zero Minus Transfer Service (O-)	3-28	
3.6.14	Telecommunications Relay Service (TRS)	3-28	
3.6.15	Shared Network Arrangement	3-28	
3.6.16	Signaling for Tandem Switching	3-29	
3.7	Selection of Facilities for Access Orders	3-30	
3.8	Provision of Other Services	3-31	

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 6

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
4	SWITCHED ACCESS SERVICE	
4.1	Switched Access Service Description	4-1
4.1.1	Concurrence	4-1
4.1.2	General	4-1
4.2	Switched Access Service Rate Categories	4-1
4.2.1	Carrier Common Line	4-1
4.2.2	Intrastate PICC Application	4-2
4.3	Switched Access Service Rates and Charges	4-4
4.3.1	Tandem Transmission	4-4
4.3.1.1	Vintage Rates	4-4
4.3.2	Originating Rates	4-5
4.3.3	Common Line Access Charges	4-5
4.3.4	Message Unit Credit-per originating FGA Access Minute	4-6
4.3.5	800Database Access Services Rates	4-6
4.3.6	End Office Lien Port	4-6
4.3.7	Intrastate Presubscribed Interexchange Carrier Charge (PICC)	4-6
5	SPECIAL ACCESS SERVICE	
5.1	General	5-1
5.2	Services Types	5-2
5.3	Special Access Service Configuration and Arrangements	5-3
5.3.1	Two-Point Service	5-3
5.3.2	Multipoint Service	5-4
5.3.3	Video Hubs	5-5
5.3.4	Central Office Multiplexing	5-5
5.4	Special Access Service Rate Categories	5-8
5.4.1	Standard Channel Termination	5-8
5.4.2	Channel Mileage	5-8
5.4.3	Optional Features and Functions	5-8
5.4.4	Special Access Surcharge	5-9
5.4.5	Message Station Equipment Recovery Charge	5-11
5.5	Special Access Service Description Summaries	5-12
5.6	Special Access Service Network Channel Interface (NCI) Code Information	5-14
5.6.1	General	5-14
5.6.2	Network Channel Interface Code Translation Information	5-15
5.6.3	Compatibility	5-15

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
5	SPECIAL ACCESS SERVICE (Cont'd)	
5.7	Basic Service Descriptions	5-16
5.8	Voice Grade Special Access Service	5-17
5.8.1	Basic Service Description	5-17
5.8.2	Technical Information	5-17
5.8.3	Optional Features and Functions	5-17
5.8.4	Rates and Charges	5-20
5.9	Voice Grade Special Access Service	5-23
5.9.1	Basic Service Description	5-23
5.9.2	Technical Information	5-23
5.9.3	Optional Features and Functions	5-24
5.9.4	Rates and Charges	5-25
5.10	Digital Data Special Access Service	5-27
5.10.1	Basic Service Description	5-27
5.10.2	Optional Features and Functions	5-28
5.10.3	Rates and Charges	5-28
5.11	Digital Data Special Access Service	5-30
5.11.1	Basic Service Description	5-30
5.11.2	Technical Information	5-30
5.11.3	Optional Features and Functions	5-31
5.11.4	Rates and Charges	5-37
5.11.5	Individual Case Basis Filings	5-52
5.12	High Capacity Special Description	5-53
5.12.1	Basic Service Description	5-53
5.12.2	Technical Information	5-54
5.12.3	Optional Features and Functions	5-59
5.12.4	Rates and Charges	5-59
5.12.5	Monthly Extension Rates	5-59
5.12.6	Term Pricing Plan (TPP)	5-59
5.12.7	Moves	5-61
5.12.8	Mileage Measurement	5-63
5.12.9	Upgrades	5-64
5.12.10	Modification of Access Service Order	5-65
5.12.11	Optional Features	5-65
5.12.12	Allowance for Service Interruptions (Not Fully Protected)	5-70
5.12.13	Rates and Charges	5-72

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
6	TESTING, MAINTENANCE, AND ADDITIONAL LABOR SERVICES	
6.1	General	6-1
6.1.1	Notification of Service-Affecting Activities	6-1
6.1.2	Network Contingency Plans	6-1
6.1.3	Labor Sensitive Rates	6-2
6.2	Testing Services	6-3
6.2.1	Acceptance Testing	6-3
6.2.2	Normal Maintenance	6-3
6.2.3	Optional Testing Services	6-3
6.3	Switched Access Testing Services	6-5
6.3.1	Acceptance Testing	6-6
6.3.2	Automatic Testing	6-7
6.3.3	Cooperative Testing	6-8
6.3.4	Manual Testing	6-9
6.4	Special Access and Dedicated Signaling Transport (DST) and LIDB Validation Testing Services	6-10
6.4.1	Acceptance Testing	6-10
	6.4.2	
Nonscheduling	Testing	6-11
6.4.3	DST and LIDB Validation Service	6-11
6.4.4	Signalling Network Access-Dedicated (SNA-D)	6-11
6.5	Local Exchange Access Testing Service	6-12
6.5.1	Acceptance Testing	6-12
6.5.2	Scheduled and Non-Scheduled Testing	6-12
6.6	Maintenance of Service Charge	6-13
6.7	Additional Engineering and Labor Services	6-14
6.7.1	Additional Engineering Service	6-14
6.7.2	Additional Labor Service	6-14
7	SPECIAL FACILITIES ROUTING OF ACCESS SERVICES	
7.1	General	7-1
7.1.1	Diversity	7-1
7.1.2	Avoidance	7-1
7.2	Rates and Charges	7-2
7.2.1	Diversity	7-2
7.2.2	Avoidance	7-2
7.2.3	Diversity and Avoidance Combined	7-2

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 9

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>	
8	SPECIALIZED ACCESS SERVICES		
8.1	General	8-1	
8.2	Rates and Charges	8-1	
9	MISCELLANEOUS SERVICES		
9.1	Provision of Access Service Billing Information	9-1	
9.1.1	Access Service Billing Information Options	9-1	
9.1.2	Access Service Billing Rates and Charges	9-1	
9.1.3	Customer Record Information Billing Options	9-2	
9.1.4	Customer Record Information Billing Rates and Charges	9-3	
9.2	Standard Jacks	9-4	
9.2.1	Standard Voice Jacks	9-5	
9.2.2	Standard Analog Data Jacks	9-7	
9.2.3	Non-Registration Analog Data Jacks	9-8	
9.2.4	Standard Digital Data Jacks	9-8	
9.3	Protective Connecting Arrangements	9-9	
9.4	Restoration Priority	9-10	
9.5	Individual Case Filings	9-11	
9.6	Telecommunications Service Priority (TSP) System	9-12	
9.6.1	Description	9-12	
9.6.2	Rates and Charges	9-14	
9.7	Reserved For Future Use	9-16	(T)
9.7.1	Description	9-16	
9.7.2	Technical Specifications	9-16	
9.7.3	Telephone Company Obligations	9-17	
9.7.4	Customer Obligations	9-18	
9.7.5	Rates and Charges	9-18	
9.8	Zero Minus Transfer (0-) Service	9-19	
9.8.1	Description	9-19	
9.8.2	Technical Specifications	9-19	
9.8.3	Telephone Company Obligations	9-19	
9.8.4	Customer Obligations	9-20	
9.8.5	Rates and Charges	9-20	

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 10

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
9	MISCELLANEOUS SERVICES (Cont'd)	
9.9	Billing Name and Address Service (BNA)	9-21
9.9.1	General	9-21
9.9.2	Undertaking of the Telephone Company	9-21
9.9.3	Obligations of the Customer	9-22
9.9.4	Rates and Regulations	9-24
9.9.5	Rates and Charges	9-25
9.10	PSP ANI Coding Digits	9-25
9.10.1	Rates and Charges	9-25
10	SPECIAL CONSTRUCTION	
10.1	General	10-1
10.1.1	Conditions Requiring Special Construction	10-1
10.2	Maximum Termination Liability and Termination Charge	10-2
10.3	Annual Underutilization Liability and Underutilization Charge	10-4
10.4	Types of Liabilities and Charges	10-5
10.4.1	Lease Charge	10-4
10.4.2	Cancellation Charge	10-4
10.4.3	Deferral of Start of Service	10-4
10.5	Definitions	10-6
10.6	Ownership of Facilities	10-8
11	DIRECTORY ASSISTANCE SERVICE	
11.1	General	11-1
11.2	Undertaking of the Telephone Company	11-2
11.3	Service Description	11-3
11.3.1	General	11-3
11.3.2	Directory Transport	11-3
11.3.3	Transmission Specifications	11-5
11.3.4	Directory Transport Interface Groups and Customer Premises Interface Codes	11-5
11.3.5	Network Channel Interface (NCI) Codes	11-5
11.4	Obligations of the Customer	11-6
11.5	Rate Regulations	11-7
11.5.1	Charges	11-7
11.6	Rate and Charges	11-10

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 11

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
12	DEDICATED SIGNALING TRANSPORT	
12.1	General	12-1
12.2	Service Description	12-2
12.2.1	Dedicated Signaling Transport (DST)	12-2
12.2.2	Line Information Data Base (LIDB) Validation Service	12-3
12.3	Limitations	12-4
12.4	Rate Elements	12-5
12.4.1	DST Rate Elements	12-5
12.4.2	LIDB Validation Service Rare Elements	12-6
12.5	Jurisdictional Report Requirements	12-7
12.5.1	Dedicated Signaling Transport (DST)	12-7
12.5.2	Line Information Data Base (LIDB) Validation Service	12-7
12.6	Testing Requirements	12-9
12.7	Obligations of the Telephone Company	12-10
12.8	Rate Regulations	12-12
12.8.1	Description of Rates and Charges	12-12
12.8.2	Application of Rates and Charges	12-12
12.9	Rates and Charges	12-15
12.9.1	Dedicated Signaling Transport (DST)	12-15
12.9.2	LIDB Validation Service	12-16
13	OPERATING TERRITORY OF THE TELEPHONE COMPANY	
13.1	General	13-1

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
14	EXPANDED INTERCONNECTION	
14.1	General	14-1
14.2	Definitions	14-1
14.3	Service Description	14-3
14.4	Liability and Indemnification	14-4
14.5	Fiber Optic Cable and Demarcation Point	14-5
14.6	Application of Service	14-6
14.7	Types of Available Physical Collocation Arrangements	14-7
14.7.1	Caged Physical Collocation	14-7
14.7.2	Shared Caged Physical Collocation	14-8
14.7.3	Sub-Leasing Space	14-8
14.7.4	Cageless Physical Collocation	14-8
14.7.5	Adjacent Space Collocation	14-9
14.7.6	Other Physical Collocation Arrangements	14-9
14.8	Space Availability Determination and Resolution	14-10
14.9	Obligations of the Collocator	14-11
14.10	Security	14-12
14.11	Intervals	14-14
14.12	Rights and Obligations	14-18
14.13	Insurance	14-22
14.14	Notice	14-23
14.15	Rate Elements	14-24
14.16	Rates and Charges	14-35
14.17	Virtual Expanded Interconnection	14-53
14.17.1	General	14-53
14.17.2	Individual Case Basis Filings	14-53

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 13

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>	
15	END USER		
15.1	Miscellaneous End User Services	15-1	
15.1.1	International Direct Dial Blocking Service	15-1	
15.1.2	900 Service Access Restriction	15-2	
15.2	Intrastate Presubscription	15-3	
15.2.1	Intrastate Presubscription Charge Application	15-3	
15.2.2	Intrastate Presubscription Change Charge	15-3	
15.2.4	Primary Interexchange Carrier (PIC) Switchback Option	15-4	
16	ADVANCED COMMUNICATIONS SERVICES		
16.1	General	16-1	
16.2	Frame Relay Service ¹ (Grandfathered)	16-2	(C)
16.2.1	Service Description	16-2	
16.2.2	Service Provisioning	16-4	
16.2.3	Service Components	16-5	
16.2.4	Rates and Charges	16-6	
17	VIDEO DIALTONE TRIAL-SERVICE		
17.1	General	17-1	
17.2	Application of Tariff	17-2	
17.3	Regulations	17-3	
17.3.1	Definitions	17-3	
17.3.2	Undertaking of Company	17-5	
17.3.3	Liability	17-5	
17.3.4	Obligation of Programmer-Customer	17-6	
17.3.5	Access to Premises	17-7	
17.3.6	Billing	17-7	
17.3.7	Interconnection of Facilities at Demarcation Points	17-7	
17.3.8	Indemnification	17-7	
17.3.9	Digital Channel Expansion	17-8	
17.3.10	Termination	17-8	
17.3.11	Ordering Service	17-8	
17.3.12	Number of Channels	17-8	
17.4	Service Description	17-9	
17.4.1	Terms and Conditions	17-9	
17.5	Rate and Charges	17-11	
¹	Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.		(N) (N)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 14

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
18	LOCAL EXCHANGE ACCESS SERVICE	
18.1	General Regulations	18-1
18.2	Unbundled Network Services	18-17
18.2.1	Local Loop Elements	18-17
18.2.2	Interconnection of Unbundled Network Elements	18-48
18.2.2.1	Central Office Multiplexing	18-48
18.2.2.2	Inter-Wire Center Transport	18-49
18.2.2.3	Schematics of Interconnection Arrangement of Unbundled Network Elements	18-49
18.2.3	Network Interface Device (NID)	18-49
18.2.4	Interface Transmission Facilities (IOTFS)	18-54

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 15

Section 1 - TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>

18	LOCAL EXCHANGE ACCESS SERVICE (Cont'd)

(D)

(D)

18.5	Co-Carrier/Network Interconnection Arrangements	18-143
18.5.1	E-911	18-143
18.5.2	Number Portability	18-145
18.5.2.1	Service Provider Local Number Portability	18-145
18.5.2.2	Direct Number to Route Index (DNRI)	18-148
18.5.3	Compensation Arrangements	18-150
18.5.4	Network Interconnection Trunking	18-150
18.5.4.1	POTS Trunking	18-151
18.5.4.2	Emergency Service Central Office (ESCO) Trunks	18-154
18.5.4.3	Transit Traffic	18-156
18.4.4.4	Common Channel Signaling - Signaling System 7 (SS7)	18-157
18.5.5	Publishing	18-158
18.5.5.1	General	18-158
18.5.5.2	Primary Listings	18-159
18.5.5.3	Additional Listings	18-159
18.5.5.4	Non-Published and Non-Listed Services	18-161
18.5.5.5	Customer Service Guide	18-163
18.5.6	Telephone Number Assignments	18-164
18.5.6.1	Blocks of 20 Telephone Numbers for Direct Inward Dialing	18-164
18.5.6.2	Vanity Numbers	18-166

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 16

Section 1 - TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
18 LOCAL EXCHANGE ACCESS SERVICE (Cont'd)	

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 17

Section 1 - TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
18 LOCAL EXCHANGE ACCESS SERVICE (Cont'd)	

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

4th Revised Page 18

Section 1 - TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>

18	LOCAL EXCHANGE ACCESS SERVICE (Cont'd)	

(D)

18.7	Custom Service Arrangements	18-323
18.7.1	Meet Point Billing	18-324
18.7.2	Optional Calling Plans (OCP) SNET Flat Rate Plan	18-326
18.7.3	Special Networks	18-328
18.7.3.1	Extended LAN Service (Grandfathered)	18-328
18.7.3.2	Remote Monitoring	18-329

(D)

(D)

18.10	Wholesale Private Line Services	18-338
18.10.1	High Capacity Transport Service	18-338
18.10.1.1	1.544 Megabits Per Second Digital Service	18-338
18.10.2	Frame Relay Service (FRS) ¹ (Grandfathered)	18-342
18.10.3	Digital Data Service	18-345
18.10.4	Switched Digital Data Service	18-346
18.10.5	Analog Private Line	18-347
18.10.6	Other Private Lines	18-357
18.10.6.1	Premises Channels	18-357
18.10.6.2	Supervisory Drop	18-357
18.10.6.3	Battery Taps	18-357
18.10.7	Series 6000 Channels	18-358
18.10.7.1	Type and Description	18-358
18.10.7.2	Regulations	18-360

(D)

¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 19

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>	
18	LOCAL EXCHANGE ACCESS SERVICE (Cont'd)		
18.10.8	Asynchronous Transfer Mode (ATM) ¹ (Grandfathered)	18-362	(C)
18.10.9	Gigabit Ethernet Metro Area Network (Grandfathered)	18-366	
18.10.10	Ethernet Optical Metropolitan Area Network	18-383	
18.10.10.1	Description	18-383	
18.10.10.2	Definitions	18-385	
18.10.10.3	Terms and Conditions	18-386	
18.10.10.4	Features	18-392	
18.10.10.5	Pricing	18-394	
18.11	Resold Promotional Offerings	18-399	
18.12	Custom Location Alternative Routing (CLAR)	18-400	
18.13	Abbreviated Dial Plan (ADP)	18-402	
18.14	Volume Discount Plan	18-403	
18.14.1	Complete Volume Discount	18-403	
19	SNET SONET NETWORK SERVICE		
19.1	Service Description	19-1	
19.2	Technical Information	19-1	
19.3	Rate Elements	19-2	
19.4	Rates and Charges	19-4	
20	Toll Services		
20.1	Connecticut CLEC Call Plan Service	20-1	
20.1.1	Service Description	20-2	
20.1.2	Rates and Charges		
20.2	Operator Dialed Intrastate Toll Calls	20-3	
20.2.1	Service Description	20-3	
20.2.2	Rates and Charges	20-3	

¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

(N)
|
(N)

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
21	INTERCONNECTION SERVICE	
21.1	General	21-1
21.2	Definitions	21-2
21.3	Regulations	21-3
21.3.1	Undertaking of the Telephone Company	21-3
21.3.2	Limitations	21-4
21.3.3	Minimum Period	21-4
21.3.4	Liability	21-4
21.3.5	Payment of Rates, Charges and Deposits	21-5
21.3.6	Credit Allowance for Service Interruption	21-5
21.4	Interconnection Service Description	21-6
21.4.1	Channel Transmission and Signaling Arrangements	21-8
21.4.2	Conditioning	21-8
21.4.3	Special Construction	21-8
21.4.4	Special Facilities Routing	21-9
21.5	Telephone Numbers	21-9
21.5.1	Directory Listings	21-9
21.6	Rate Regulations	21-9
21.6.1	Promotional Campaigns	21-9
21.6.2	Types of Rates and Charges	21-10
21.6.3	Moves	21-10
21.7	Rates and Charges	21-10
22	OPTICAL CARRIER NETWORK (OCN) POINT-TO-POINT	
22.1	General Description	22-1
22.2	Rate Regulations	22-6
22.3	Rates and Charges	22-24

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 21

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>	
23	BASIC SWITCHED ETHERNET SERVICE (Grandfathered)		(D)
23.1	Service Description	23-1	
23.1A	Basic Service Description	23-1	
23.1B	Service Provisioning	23-3	
23.1C	Service Level Agreements (SLAs)	23-5	
23.1D	Basic Switched Ethernet Service Configuration	23-9	(T)
23.1E	Responsibility of the Customer	23-11	
23.1F	Rate Elements	23-12	
23.1G	Optional Features	23-12	(T)
23.1H	Term Pricing Plan	23-13	
23.1I	Moves	23-13	(T)
23.1J	Expiration of Basic Switched Ethernet Service TPP term options	23-14	
23.1K	Termination Liability	23-15	
23.1L	Upgrades	23-15	
23.1M	Migration to Frontier Basic Switched Ethernet Service	23-16	
23.2	Rates and Charges	23-17	
23.2A	Connection	23-17	
23.2B	Committed Information Rate	23-17	
23.2C	EVC Charges	23-19	
23.2D	Other Charges	23-19	
23.2E	Optional Features	23-19	
24	MULTI-SERVICE OPTICAL NETWORK (MON) RING SERVICE (Grandfathered Obsolete)		
24.1	General Description	24-1	
24.1A	Basic Service Description	24-1	
24.1B	Service Provisioning	24-2	
24.1C	Responsibility of the Telephone Company	24-5	
24.1D	Responsibility of the Customer	24-5	
24.1E	Service Arrangements	24-5	
24.2	Route Diversity	24-6	
24.3	Rate Regulations	24-6	
24.3A	Rate Elements	24-6	
24.3B	MON Ring Connection Capacity (Grandfathered)	24-8	
24.3C	Term Pricing Plan	24-11	
24.4	Rates and Charges	24-13	
24.4A	Nonrecurring Charges	24-13	
24.4B	Recurring Charges	24-14	
24.4C	Ports	24-15	

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 22

Section 1 - TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
25	ETHERNET SERVICE	
25.1	Ultimate Switched Ethernet Service	25-1
25.1.1	Service Description	25-1
25.1.2	Service Level Agreement	25-13
25.1.3	Limitations and Provisioning	25-17
25.1.4	Ethernet Payment Plan (EPP)	25-18
25.1.5	Rate Conditions	25-23
25.1.6	Rates and Charges	25-25
26	METROPOLITAN STATISTICAL AREA ACCESS SERVICE	
26.1	Concurrence	26-1
26.2	Metropolitan Statistical Area Access Services	26-1
26.2.1	General Description	26-1
26.2.2	Services Available in an SMA	26-1
26.2.3	Rates and Charges	26-1
26.2.4	Special Access is not available in the intrastate jurisdiction	26-2

Section 1 - 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

Section 2 - General Regulations

2.1 Undertaking of the Telephone Company

- A. The Telephone Company does not undertake to transmit messages under this tariff.
- B. The Telephone Company shall be responsible only for the installation, operation and maintenance of the services it provides. The Telephone Company shall not be responsible to customers for end-to-end service of which the services provided under this tariff are part.
- C. Services are provided 24 hours daily, seven days per week, except as set forth in other applicable sections of this tariff.
- D. The Telephone Company does not warrant that its services meet standards other than those set forth in this tariff.
- E. The payment of rates and charges by customers for the services offered under the provisions of this tariff 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.

Facilities utilized by the Telephone Company to provide service under the provisions of this tariff 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.

- F. Telephone numbers assigned to services offered under this tariff shall be the responsibility of the Telephone Company to administer. When a customer purchases blocks of 10,000 numbers out of Section 18.5.6 of this tariff, these telephone numbers become the responsibility of the customer to administer.

(D)

When necessary to the conduct of its business, 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. Should it become necessary to make a change in such number(s), the Telephone Company will give the customer 6 months written notice by Certified U.S. Mail. The notice will include the effective date of the change and an explanation of the reason(s) for such change(s).

Section 2 - General Regulations

2.2 Provision of Service2.2.1 General

The Telephone Company will provide services offered in this tariff on a first-come, first-served basis at the rates and charges specified herein upon reasonable notice and to the extent that such services are or can be made available with reasonable effort in accordance with Part 64, Subpart D, Appendix A, of the FCC's Rules and Regulations, which specifies the procedures for the use and restoration of leased intercity private line services in emergencies.

Additional terms and conditions applicable to Local Exchange Access Services are discussed in Section 18.1)

2.2.2 Routing of Facilities

The Telephone Company will determine the routing of facilities used for the provision of service. Other routing may be provided pursuant to the Special Facilities Routing regulations contained in Sections 7 and 10 of this tariff.

2.2.3 Type of Facilities

The Telephone Company will determine the type of facilities used for the provision of service. Other facilities may be provided pursuant to the regulations contained in Section 10 of this tariff.

2.2.4 Design Layout Report

At the customer's request, the Telephone Company will furnish information regarding the facilities used to provision services provided under this tariff to aid the customer in designing its overall service. Such information will be made available in the form of a Design Layout Report (DLR). The DLR will be reissued or updated whenever the facilities used to provide service are materially changed. For Switched Access Service, the DLR will provide information from the customer premises to the first point of switching only. The DLR is not available with Local Exchange Access Services for Loop or Port Services.

2.2.5 Installation and Termination of Services

An individual Access Service has only one Point of Termination (POT) or Minimum Point of Presence (MPOP) per customer/customer's end user's premises, i.e., there are no provisions for intra-premises extensions. The Telephone Company will provide additional Points of Termination at an additional charge. The charge for additional points of termination will include the cost of additional materials and labor.

Section 2 - General Regulations

2.2 Provision of Service (Cont'd)2.2.5 Installation and Termination of Services (Cont'd)

The services provided under this tariff include any entrance cable or drop wiring and wire or intra-building cable up to the point where provision is made for termination of the Telephone Company's outside distribution network facilities at a suitable location inside a customer's premises. Services will be installed by the Telephone Company to such POT or MPOP. Any additional wiring beyond the POT or MPOP is the sole responsibility of the customer. Since the POT or MPOP is an inherent part of Access Service, the Point of Termination may be moved as set forth in Section 2.11.4F.

2.2.6 Substitutions, Changes and Rearrangements

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 tariff, and is not limited to a specific service or technology.
- 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, rearrangement or change, the transmission parameters will remain within the range set forth in the technical reference publications for the service involved. The Telephone Company shall not be responsible if any such substitution, rearrangement or change renders any customer furnished services obsolete or requires modification or alteration thereof or otherwise affects their use or performance.

If such substitution, rearrangement or change 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 requirements.

Section 2 - General Regulations

2.3 Refusal and Discontinuance of Service

Unless the regulations pertaining to Interference or Impairment (Section 2.5.6) or Connections (Section 2.6) apply, if a customer fails to comply with regulations pertaining to Maintenance of Service (Section 6.5), Unlawful and Abusive Use (Section 2.5.1), Damage to Facilities (Section 2.5.7), Availability for Testing (6.2), Payment of Rates, Charges and Deposits (Section 2.8), including any payments to be made by it on the dates and times herein specified, the Telephone Company may, on thirty (30) days written notice by receipted delivery to the person designated by that customer to receive such notices of noncompliance:

- A. Refuse additional applications for service and/or refuse to complete any pending orders for service by the noncomplying customer at any time thereafter. The Telephone Company may also refuse to accept and process any requests from end users or from the customer to designate that customer as the end user's Primary Interexchange Carrier (PIC), as described in Section 15, following. If an end user contacts the Telephone Company to designate the customer as the end user's PIC, the end user will be given the choice of either remaining with the end user's existing PIC or selecting a new PIC other than the customer. If the Telephone Company does not refuse additional applications for service or PIC changes to the customer on the date specified in the thirty (30) days notice, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to refuse additional applications for service to the noncomplying customer without further notice and
- B. Discontinue the provision of the services to the noncomplying customer at any time thereafter. In the case of such discontinuance, all applicable charges, including termination charges, shall become due. If the Telephone Company does not discontinue the provision of the services involved on the date specified in the thirty (30) days notice, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to discontinue the provision of the services to the noncomplying customer without further notice.

Section 2 - General Regulations

2.4 Telephone Company Liability

- A. The Telephone Company's failure to provide or maintain services under this tariff 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.
- B. The Telephone Company's liability, if any, for its willful misconduct is not limited by this tariff. 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 C. 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 service was affected. This liability for damages shall be in addition to any amounts that may otherwise be due the customer under this tariff as a Credit Allowance for a Service Interruption.
- C. The Telephone Company shall not be liable for any act or omission of any customer providing a portion of a service, nor shall the Telephone Company for its own act or omission hold liable any customer providing a portion of a service.
- D. The Telephone Company is not liable for damages to the customer or end user 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.
- E. The Telephone Company shall be indemnified, defended and held harmless by the customer against any claim, loss or damage arising from the customer's or the customer's end user's use of services offered under this tariff, involving:
 - (1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from the customer's or the customer's end user's own communications;
 - (2) Claims for patent infringement arising from the customer's or the customer's end user's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the customer or the customer's end user;
 - (3) All other claims arising out of any act or omission of the customer or the customer's end user in the course of using services provided pursuant to this tariff.

Section 2 - General Regulations

2.4 Telephone Company Liability (Cont'd)

- 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 tariff. The Telephone Company will defend the customer against claims of patent infringement arising solely from the use by the customer of services offered under this tariff and will indemnify such customer for any damages awarded based solely on such claims.
- G. 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.
- H. The regulation for the installation, use and restoration of Telecommunications Service Priority (TSP) System services shall be subject to Part 64.401, Appendix A, of the Federal Communications Commission's Rules and Section 9 following. Customers, which provide Local Exchange Access Service are responsible for TSP services for their end users.
- I. The Telephone Company shall not be liable for any act or omission of any individual, partnership, association, joint stock company, trust, corporation, government entity or other entity who subscribes to the services offered under this tariff and has not received a certificate of public convenience and necessity from the Connecticut Department of Public Utility Control or has failed to comply with any other statutory or regulatory provision. The Telephone Company shall be indemnified, defended and held harmless by any such entity from any and all claims by any person relating to such entity's use of the services provided herein.

Section 2 - General Regulations

2.5 Obligations of the Customer2.5.1 Unlawful and Abusive Use

The services provided under this tariff shall not be used for an unlawful purpose or used in an abusive manner. Service will not be furnished if any law enforcement agency, acting within its jurisdiction, advises that such service is being used or will be used in violation of law, or if the Telephone Company receives other evidence that such service is being or will be so used.

A. Abusive use includes:

- 1) The use of the service of the Telephone Company for a call or calls, anonymous or otherwise, in a manner reasonably expected to frighten, abuse, torment, or harass another;
- 2) The use of the service in such a manner as to interfere unreasonably with the use of the service by one or more other customers.

B. The Telephone Company shall, upon written request from a customer or another Interexchange Carrier, terminate service to any Telephone Company subscriber or customer identified as having utilized service provided under this tariff in the completion of abusive or unlawful telephone calls. Service shall be terminated by the Telephone Company as provided for in its general and/or local exchange service tariffs.

C. In such instances when termination occurs, as in B. preceding, the Telephone Company shall be indemnified, defended and held harmless by the customer or any other Exchange Carrier or party against any claim, loss or damage arising from the Telephone Company's actions in terminating such service, unless caused by the Telephone Company's negligence.

2.5.2 Equipment Space and Power

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 tariff 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.

2.5.3 Design of Customer Services

Subject to the provisions of Section 2.2.5, 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.

Section 2 - General Regulations

2.5 Obligations of the Customer (Cont'd)2.5.4 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.

2.5.5 Assignment or Transfer of Service

The customer may not assign or transfer the use of services provided under this tariff. However, where there is no interruption of use or relocation of the services, such assignment or transfer may be made to:

- A. another customer, whether an individual, partnership, association, corporation, or another Certified Local Exchange Carrier, 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
- B. 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 regulations and conditions contained in this tariff shall apply to such assignee or transferee.

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 obligations existing at the time of the assignment or transfer.

2.5.6 Interference or Impairment

- A. All signals for transmission over the services provided under this tariff shall be delivered by the customer balanced to ground except for ground start and duplex (DX) type signaling.

Section 2 - General Regulations

2.5 Obligations of the Customer (Cont'd)2.5.6 Interference or Impairment (Cont'd)

- B. 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 tariff 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.
- C. If such characteristics or methods of operation are not in accordance with A. and B. 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 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 this period of temporary discontinuance, credit allowance for service interruptions is not applicable.

2.5.7 Damage to Facilities

The customer shall reimburse the Telephone Company for damages to Telephone Company facilities utilized to provide services under this tariff 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.

Section 2 - General Regulations

2.5 Obligations of the Customer (Cont'd)

2.5.8 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 tariff, any circuit, apparatus, system or method provided by the customer.
- 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 tariff, 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 tariff; 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 tariff.

Section 2 - General Regulations

2.6 Connections

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

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications

When the same Switched Access Service(s) is(are) used for both interstate and intrastate applications, all charges, including optional features charges, i.e., nonrecurring, monthly and/or usage, will be prorated between interstate and intrastate on the basis of the projected percentage of interstate usage (PIU), expressed as a whole number, i.e., a number from 0 to 100.

Interstate usage consists of calls which enter a customer network in a different state than where the called station (as designated by the called station number) is situated. Calls that enter a customer network within the same state as that in, which the called station is situated are classified as intrastate communications.

2.7.1 Charge Determination

The intrastate charges are determined as follows:

A. For Monthly and Nonrecurring Chargeable Rate Elements

The projected percentage of intrastate use, expressed in decimal form, is multiplied by the quantity of chargeable elements and the stated tariff rate.

B. For Usage Sensitive (i.e., access minutes) Chargeable Rate Elements

The projected percentage of intrastate use, expressed in decimal form, is multiplied by the actual use and the stated tariff rate.

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications
(Cont'd)2.7.2 Initial Jurisdictional Report Requirements

Where the customer orders new trunks that augment an existing trunk group that carries both interstate and intrastate traffic and the PIU is determined from the actual call detail, the PIU applied to the provisioning and billing of the new trunks requested by the customer will also be determined from the actual call detail for the entire trunk group. In such instances, the Access Service Request used by the customer to order the new trunks cannot reflect a PIU of 100%.

A. Feature Groups A and B (FGA and FGB)

For all FGA individual lines or multiline hunt group arrangements and FGB trunks or trunk group arrangements the customer shall state the projected interstate usage percentage for each service ordered.

For all groups the number of access minutes for a group will be multiplied by the projected interstate percentage to develop the interstate access minutes. Intrastate access minutes are developed by subtracting the number of interstate minutes from the total access minutes for the group.

B. Feature Group D (FGD), 500 Access Service, 700 Access Service, 800 Database and 900 Access Service

- 1) Jurisdiction can be determined from Call Detail - When the jurisdiction can be determined from Call Detail (e.g., originating FGD MTS traffic) the Telephone Company will bill the actual intrastate usage for each end office on a monthly basis as provided by the call detail.
- 2) Insufficient Call Detail to Determine Jurisdiction - When originating or terminating call details are insufficient to determine jurisdiction the customer shall provide to the Telephone Company the interstate percentage for the traffic types (e.g., 500 originating, 700 originating, 800 originating and 900 originating) by LATA. If the customer does not provide a percentage for originating 700 Access Service, the Telephone Company will designate a PIU default factor of 41% for that service.

C. Directory Assistance Service

When a customer orders Directory Assistance Service the customer shall provide the projected interstate percentage for terminating use in their order for service as a whole number, i.e., a number from 0 to 100, for each Directory Access Service group ordered. An optional method the customer may adopt is to use its terminating traffic from its premises to the involved Directory Assistance Location and calculate the projected interstate percentage as set forth in B. preceding.

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications
(Cont'd)2.7.2 Initial Jurisdictional Report Requirements (Cont'd)D. Reserved For Future Use

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E. Dedicated Signaling Transport (DST) Service and Line Information Data Base (LIDB) Validation Service

The jurisdictional report requirements for DST and LIDB are described in 12.4 following.

F. SNET SONET Network Service (SSNS),* Entrance Facilities and Direct-Trunked Transport Facilities

When a customer orders Switched SSNS, Entrance Facilities and/or Direct-Trunked Transport Facilities the customer shall, in its order, provide to the Telephone Company the projected interstate percentage of use (PIU) in a whole number (a number of 0 through 100) for each Switched SSNS, Entrance Facility and a separate PIU for each Direct-Trunked Transport Facility. These PIU factors will account for both the originating and terminating traffic of all services using these facilities. The Telephone Company will derive the projected intrastate PIU by subtracting the projected interstate percentage provided by the customer from 100 (100 - customer percentage = intrastate percentage).

At the customer's option, a LATA-level PIU factor may be provided for all Switched SSNS, Entrance Facilities or for all Direct-Trunked Transport facilities provided in the LATA. These PIU factors will account for both the originating and terminating traffic of all services using these facilities within the LATA. The specified percentage will be applied to all Switched SSNS, all Entrance Facilities or to all Direct-Trunked Transport facilities within the LATA.

The Switched SSNS, Entrance Facility and Direct-Trunked Transport facility PIU must be provided to the Telephone Company upon ordering service, and thereafter, on a quarterly basis. Provisions for updating the interstate jurisdictional report as specified in 2.7.4 will apply.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications
(Cont'd)2.7.2 Initial Jurisdictional Report Requirements (Cont'd)G. Tandem-Switched Transport

For each Tandem-Switched Transport minute of use provided to the customer, rates and charges will be apportioned by the Telephone Company between interstate and intrastate based upon the PIUs used to apportion the rates and charges for tandem routed feature group MOU as set forth in 2.7.2 A and B preceding.

H. Expanded Interconnection

When a customer orders a Cross-Connect Termination to Direct-Trunked Transport at a serving wire center, end office or tandem switch, for which no Cross-Connect Termination service PIU has been previously reported, the customer shall, in its order, provide to the Telephone Company the Projected Interstate Percentage of Use (PIU) in a whole number (a number 0 through 100) for each Cross-Connect Termination to Switched Access services. The PIU factor will account for both the originating and terminating traffic of all Switched Access services using these terminations. The Telephone Company will derive the projected intrastate PIU by subtracting the projected interstate percentage provided by the customer from 100 (100 - customer percentage = intrastate percentage).

The Cross-Connect Termination PIU must be provided to the Telephone Company upon ordering service, and thereafter, on a quarterly basis. Provisions for updating the interstate jurisdictional report as specified in 2.7.4 will apply.

I. Signaling for Tandem Switching

When a Tandem Switching Provider (TSP) orders Signaling for Tandem Switching, the TSP shall provide to the Telephone Company a Signaling for Tandem Switching PIU in a whole number (a number of 0 through 100). The Telephone Company will derive the projected intrastate PIU by subtracting the projected interstate percentage provided by the customer from 100 (100 - customer percentage = Intrastate percentage).

At the customer's option, a Letter on File which specifies the PIU for Signaling for Tandem Switching may be provided to the Telephone Company. The Letter on File will be used by the Telephone Company to develop the projected intrastate percentage.

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications (Cont'd)2.7.2 Initial Jurisdictional Report Requirements (Cont'd)I. Signaling for Tandem Switching Cont'd)

The Signaling for Tandem Switching PIU must be provided to the Telephone Company upon ordering service, and thereafter, on a quarterly basis. Provisions for updating the interstate jurisdictional report as specified in 2.7.4 will apply.

At the customers' option, a LATA-level PIU factor may be provided for all Signaling for Tandem Switching provided in the LATA. The specified percentage will be applied to all signaling for Tandem Switching within the LATA.

When a TSP orders Entrance Facilities or Cross-Connect Terminations and Direct-Trunked Transport facilities for use with Signaling for Tandem Switching, for which no PIU has been previously reported, the TSP shall, in its order, provide to the Telephone Company the projected PIU for each Entrance Facility or Cross-Connect Termination and Direct-Trunked Transport facility as specified in 2.7.2 F and 2.7.2 H, as applicable.

2.7.3 Projected Intrastate Percentage

The projected intrastate percentage of use for originating and terminating access minutes is obtained by subtracting the interstate percentage from 100.

2.7.4 Jurisdictional Report Updates

The customer shall update the projected interstate jurisdictional report, effective the first day of each quarter, i.e., January, April, July and October. The customer shall forward a revised report to the Telephone Company, to be received no later than 20 days after the first of each quarter. The revised report shall show the interstate and intrastate percentage of use for the past three months ending the last day of December, March, June and September, respectively, for each service arranged for intrastate use.

The revised report will serve as the basis for the next three months billing and will be effective on the next bill date for that service. No prorating or back billing will be done based on the report. If the customer does not supply the reports, the Telephone Company will assume the percentages to be the same as those provided in the last quarterly report, with the exception of originating 700 Access Service. The Telephone Company, until notified differently, will designate for originating 700 Access Service a PIU factor of 41% that is effective from the first date the customer takes service. If no quarterly report has ever been received from the customer, the Telephone Company will assume the percentages to be the same as those provided in the order for service.

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications (Cont'd)2.7.5 Jurisdictional Report Verification

The customer shall keep records of call detail from which the percentage of interstate and intrastate use can be ascertained and, upon request of the Telephone Company, make the records available for inspection. Such a request may be initiated by the Telephone Company on behalf of the Department of Public Utility Control no more than once per year. The customer shall supply the data within 20 calendar days of the Telephone Company request.

2.7.6 Special Access Jurisdictional Reporting

When a customer orders Special Access Service under this tariff, the customer shall supply the projected intrastate percentage as 100.

2.7.7 Revisions to Existing Line or Trunk Groups

Except where Telephone Company measured access minutes are used to determine intrastate usage, the last customer reported interstate percentage of use will be used until the customer submits a revised projected interstate percentage for an in-service end office.

When the customer adds or discontinues lines or trunks to an existing end office or Telephone Company access tandem, the customer shall furnish a projected interstate percentage that applies to the remaining lines or trunks. The revised report will serve as the basis for future billing and will be effective on the next bill date. No prorating or back billing will be done based on the report.

2.7.8 Determination of Common Line Charges

After the adjustments as set forth in Section 2.7.4 preceding have been applied, when necessary, to Switched Access Service access minutes, charges for the involved customer account will be determined as follows:

A. Access minutes for all rated Switched Access Service subject to Carrier Common Line charges will be multiplied by the Common Line Access per minute rates as set forth in Section 4.3.3 following.

B. Terminating Common Line Access per minute charge(s) apply to:

- all terminating access minutes of use;
- all originating access minutes of use associated with FGA Access Services where the off-hook supervisory signaling is forwarded by the customer's equipment when the called party answers;

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications (Cont'd)2.7.8 Determination of Common Line Charges (Cont'd)

B. (Cont'd)

- all originating access minutes of use associated with calls placed to 700, 800 series and 900 numbers, less those originating access minutes of use associated with calls placed to 700, 800 series and 900 numbers for which the customer furnishes for each month a report of either the number of calls or minutes or a report of the percent of calls or minutes that terminate in a Switched Access Service that is assessed Carrier Common Line and Marketing Expense charges.

When the customer makes this report available to the Telephone Company in advance of billing, these minutes of use will be charged on the current bill as originating minutes of use as set forth in D. following.

If a billing dispute arises concerning the customer provided report, the Telephone Company will request the customer to provide the data the customer used to develop the report. The customer shall supply the data within 30 days of the Telephone Company request. If the customer fails to provide the requested data within 30 days, the Telephone Company will apply originating access charges.

When this report is not available to the Telephone Company until after billing, it shall be used by the Telephone Company to calculate and post a credit or debit to the customer's account. The credit or debit shall be posted to the customer's account within 30 days of the receipt of the report. The credit or debit shall be calculated by multiplying the number of access minutes of use, for which a credit or debit is determined to be applicable, times the difference between the terminating and originating Carrier Common Line charges in effect when the calls were completed.

If the customer does not supply the monthly reports, the Telephone Company will assume the common line percentages to be the same as those provided in the last monthly report. No prorating or back billing will be done based on the report.

For those cases in which a monthly report has never been received from the customer, the originating per minute access charges will apply to all 700, 800 series and 900 calls.

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications
(Cont'd)

2.7.8 Determination of Common Line Charges (Cont'd)

C. The originating Common Line Access per minute charge(s) apply to:

- all originating access minutes of use;
- less those originating access minutes of use associated with FGA Access Services where the off-hook supervisory signaling is forwarded by the customer's equipment when the called party answers;
- less all originating access minutes of use associated with calls placed to 700, 800 series and 900 numbers;
- plus all originating access minutes of use associated with calls placed to 700, 800 series and 900 numbers for which the customer furnishes for each month a report of either the number of calls or minutes or a report of the percent of calls or minutes that terminate in a switched Access Service that is assessed Carrier Common Line and Marketing Expense charges, and for which a corresponding reduction in the number of terminating access minutes of use has been made as set forth in C. preceding.

D. End Office Line Port charge(s) apply to:

- An End Office Line Port is required for the line termination of Feature Group A and WATS Access Lines. The End Office Line Port will be assessed on a flat monthly basis to the Feature Group A and the WATS Access Line customer for each equipped line. This charge is set forth in Section 4.3.11.

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications (Cont'd)2.7.9 Identification and Rating of VoIP-PSTN TrafficA. Scope

This Section applies to VoIP-PSTN Traffic exchanged between the Telephone Company and the customer in time division multiplexing ("TDM") format that originates and/or terminates in Internet protocol ("IP") format. VoIP-PSTN traffic originates and/or terminates in IP format if it originates from and/or terminates to an end-user customer of a service that requires Internet protocol-compatible customer premises equipment.*

- (1) This Section governs the identification of originating and terminating intrastate toll VoIP-PSTN traffic and facilities to which switched access rates apply (unless the parties have agreed otherwise) in accordance with the transitional Intercarrier Compensation framework for VoIP-PSTN traffic adopted by the Federal Communications Commission in its Report and Order, FCC Release No. 11-161 (Nov. 18, 2011) ("FCC Order"). Specifically, this Section establishes the method that will be used to identify the percentage of the customer's intrastate access traffic that will be treated as intrastate toll VoIP-PSTN traffic (referred to in this tariff as "Relevant VoIP-PSTN Traffic").
- (2) This Section applies to originating and terminating intrastate switched access minutes of use ("MOU") and facility rate elements of all Access customers.
- (3) The customer shall not modify its reported PIU factor to account for the VoIP-PSTN Traffic for MOU and/or facility rate elements.

* Although the Telephone Company has taken the position that this tariff, by its own terms, already applies to VoIP-PSTN traffic, as defined herein, the Telephone Company has included this Section in the tariff out of an abundance of caution to prevent any claim that it does not so apply, and to implement the decision by the Federal Communications Commission in its Report and Order in WC Docket Nos. 10-90, etc., FCC Release No. 11-161 (Nov. 18, 2011) ("FCC Order") that VoIP-PSTN access traffic should be exchanged at interstate access rates (unless the parties have agreed otherwise). By its terms, the FCC Order is prospective only, and does not address preexisting law with regard to the applicability of intercarrier compensation or the enhanced service providers ("ESP") exemption to VoIP-PSTN Traffic. Including this section in the tariff in no way alters or otherwise affects the applicability of this tariff to VoIP-PSTN Traffic before the effective date of the FCC Order.

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications (Cont'd)2.7.9 Identification and Rating of VoIP-PSTN Traffic (Cont'd)B. Rating of VoIP-PSTN Traffic

The Relevant VoIP-PSTN Traffic exchanged between the customer and the Telephone Company or another provider and facility rate elements identified in accordance with this tariff section will be billed at rates equal to the Telephone Company's applicable tariffed interstate switched access rates as specified in Frontier Telephone Companies Tariff FCC No. 11, unless the corresponding intrastate rate is lower. If the intrastate rate is lower then that rate will be used for billing. Hereafter, these billed rates will be referred to in this tariff as the relevant "VoIP Rates".

C. Calculation and Application of Percent-VoIP-Usage Factors¹

The Telephone Company will determine the number of Relevant VoIP-PSTN Traffic originating MOU and the originating facility rate elements effective July 1, 2014 to which VoIP Rates will be applied under subsection B., above, by applying the Percent VoIP Usage ("PVU") factor to the originating intrastate access MOU and the facilities between the Telephone Company and the customer. The PVU factors will be derived and applied as follows:

- (1) The customer will calculate and furnish to the Telephone Company a factor (the "PVUC") on an ACNA basis, which would aggregate traffic from all Carrier Identification Codes ("CICs") or Operating Company Numbers ("OCNs") associated with the ACNA. This PVUC represents the percentage (whole number) of the originating intrastate access MOU that the customer receives from the Telephone Company end users in the state, which is sent from the Telephone Company that is terminated in IP format at the customer's end user. This PVUC shall be based on information such as the number of the customer's retail VoIP subscriptions in the state (e.g., as reported on FCC Form 477), traffic studies, actual call detail, or other relevant and verifiable information satisfactory to the Telephone Company.

¹ Consistent with FCC regulations (47 CFR 51.913(a)), for the period of July 2012 through June 2014 Intrastate VoIP originating usage and originating dedicated facilities charges are required to be at the Intrastate rate and rate structure. Effective July 1, 2013, the Terminating usage and dedicated facilities are at the Interstate rate structure and the lower of the Interstate or Intrastate rates.

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications (Cont'd)2.7.9 Identification and Rating of VoIP-PSTN Traffic (Cont'd)C. Calculation and Application of Percent-VoIP-Usage Factors (Cont'd)

(2) The Telephone Company will calculate and periodically update a (the "PVUT") VOIP usage factor for the Telephone Company. This factor (percentage) is calculated on an individual basis: the intrastate originating minutes delivered to the customer which were originated in IP format by the Telephone Company's end users divided by the total intrastate originating access MOU that the Telephone Company delivered to the customer's end users. This PVUT shall be based on information such as the number of the customer's retail VoIP subscriptions in the state (e.g., as reported on FCC Form 477), traffic studies, actual call detail, or other relevant and verifiable information.

(3) The Telephone Company will develop a customer Percent VoIP Usage ("PVU") factor combining the customer's PVUC factor with the Telephone Company's PVUT factor.

(a) The PVU calculation below is applied when the Telephone Company does not bill based on actual call detail records for the Telephone Company's intrastate IP traffic at VoIP Rates.

$PVU = PVUC + [PVUT \times (1 - PVUC)]$ is applied to the Telephone Company's end user's originating intrastate MOU and facility rate elements.

Example: The customer reported their PVUC as 40%. The Telephone Company's PVUT is 10%. This results in the following:
 $PVU = 40\% \text{ plus } (10\% \text{ times } (1 - 40\%)) = 46\%$

This means that 46% of the originating intrastate MOU exchanged between the Telephone Company's end users and the customer will be rated at VoIP Rates.

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications
(Cont'd)2.7.9 Identification and Rating of VoIP-PSTN Traffic (Cont'd)C. Calculation and Application of Percent-VoIP-Usage Factors (Cont'd)

(3) (Cont'd)

- (b) The PVU calculation below is applied when the Telephone Company bills are based on the actual originating call detail records for the Telephone Company's intrastate IP traffic at VoIP Rates.

The formulas for usage and facility rate elements will be as follows:

$PVU = PVUC \times (1 - PVUT)$ applied to the Telephone Company's TDM end user's originating intrastate MOU.

$PVU = PVUC + [PVUT \times (1 - PVUC)]$ applied to the facility rate elements.

Example: The Telephone Company has identified that there were 10,500 originating intrastate MOU from the Telephone Company's IP end users and delivered to the customer's end users. The customer reported their PVUC as 40%. The Telephone Company's PVUT is 10%. This results in the following:
 $PVU = 40\% \text{ times } (1 - 10\%) = 36\%$

This means that 36% of the originating intrastate MOU exchanged between the Telephone Company's TDM end users and the customer will be rated at VoIP Rates and the originating intrastate 10,500 MOU will also be rated at VoIP Rates. For the originating facility rate elements, the formula that is applied to the intrastate dedicated facilities is as follows:

$PVU = 40\% \text{ plus } (10\% \text{ times } (1 - 40\%)) = 46\%$
Therefore, 46% of the originating intrastate facilities will be rated at VoIP Rates.

- (4) The Telephone Company will apply the customer's PVUC to originating traffic exchanged between the third party providers (e.g. Independent Telephone Companies and local exchange carrier) subtending the Telephone Company's access tandem and customer.

The customer may elect to provide a different factor ("PVUC3") that represents the originating VoIP-PSTN traffic that is exchanged between the third party providers and customer.

- (5) If the customer does not furnish the Telephone Company with a PVUC pursuant to the preceding paragraph C.(1), the Telephone Company will utilize a customer PVUC of 0%.

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications
(Cont'd)2.7.9 Identification and Rating of VoIP-PSTN Traffic (Cont'd)D. PVU Factor Updates

The customer may update the PVUC factor quarterly using the method set forth in Subsection C.(1) and (4), above. If the customer chooses to submit such updates, it shall forward to the Telephone Company, no later than 15 days after the first day of January, April, July and/or October of each year, a revised PVUC factor based on data for the prior three months, ending the last day of December, March, June and September, respectively. The Telephone Company will use the revised PVUC to calculate a revised PVU. The revised PVU factor will only apply prospectively and serve as the basis for billing until superseded by a new PVU.

The customer must update the PVUC factor no later than June 1, 2014 to reflect the use of originating VOIP traffic as delineated in Subsection (C)(1) and (4) or the Telephone Company will utilize a customer PVUC of 0%.

E. PVU Factor Verification

Not more than twice in any year, the Telephone Company may ask the customer to verify the PVUC factor furnished to the Telephone Company. The customer shall comply, and shall reasonably provide the records and other information used to determine their PVUC, as specified in section C.(1), and (4), above. The customer shall retain and maintain (for verification purposes) the records and other information used to determine the PVUC, for at least 12 months after the PVUC is furnished to the Telephone Company (or longer if any other section of the Telephone Company's tariffs or applicable law requires a longer period). The verification process shall be conducted consistent with the provisions in Section 2.7.5 of Frontier Telephone Companies Tariff FCC No. 11.

Section 2 - General Regulations

2.7 Switched Access Service Used for Both Interstate and Intrastate Applications
(Cont'd)2.7.9 Identification and Rating of VoIP-PSTN Traffic (Cont'd)F. Verification Process

The Telephone Company will review these customer provided PVUC records referenced in (E) above. If the review results represent what the Telephone Company considers to be a substantial deviation from the customer's previously reported PVUC or if the PVUC appears unreasonable as compared to other related types of data, the Telephone Company will contact the customer within 30 days. This deviation issue will be dealt with in one of the following ways. The current PVUC will continue to be utilized until resolution from either of the 2 methods below.

- 1) The Telephone Company and the customer will come to an agreement as to an appropriate PVUC within 30 days of the provision of the PVUC records.
- 2) Within 90 days of the receipt of these records, the Telephone Company will review or audit these records. If these PVUC records are not available or these records are not substantive enough to calculate a PVUC, then a PVUC factor of zero will be assigned. This zero PVUC will be utilized until either a PVUC can be agreed upon between the Telephone Company and the customer or an audit can be completed utilizing records acceptable for an audit conclusion. When an audit has been completed employing the records acceptable for an audit conclusion, the PVUC resulting from the audit will be employed until the next customer provided PVUC is available as referenced in the (D) or (E) procedures above.

Section 2 - General Regulations

2.8 Payment Regulations2.8.1 Deposits

In order to safeguard its interests, the Telephone Company may require a deposit, to be held by the Telephone Company, as a guarantee of the payment of rates and charges. Such a deposit may be required prior to, or at any time after the provision of a service and will only be required with customers that have no established credit or have a proven history of late payments to the Telephone Company. A deposit will not be required of a customer that is a successor of a company which has established credit and has no history of late payments to the Telephone Company. The 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 regarding the prompt payment of bills.

When 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 deposits will also be refunded or credited to the customer's account when the customer has established credit or 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.

Interest on any deposit shall be paid pursuant to Connecticut General Statute §16-262j, as amended from time to time.

Section 2 - General Regulations

2.8 Payment Regulations (Cont'd)2.8.2 Billing and Payment Dates

The Telephone Company will establish a monthly billing date for each customer account and shall bill all charges incurred by, and credits due to the customer under this tariff on a current basis. Charges are billed in advance for services to be provided during the next billing period, except for usage sensitive charges, which are billed in arrears. The bill will cover nonusage sensitive charges for the next billing period, any known unbilled nonusage sensitive charges for prior billed periods, and usage charges accrued since the last billing date. Any known unbilled usage charges or adjustments for prior periods will also be applied to the bill.

Bills are due in immediately available funds 31 days after the billing date or by the next billing date, whichever is the shortest interval, except when this would cause payment to be due on a Saturday, Sunday or Holiday. If the payment due date falls on a Saturday, Sunday or a Holiday, the payment date shall be the first business day following such Saturday, Sunday or Holiday.

Immediately available funds denote 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.

The holidays covered by this regulation include New Year's Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, the second Tuesday in November and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed.

If any portion of the payment is received by the Telephone Company after the payment date, or if any portion of the payment is received by the Telephone Company in funds which are not immediately available to the Telephone Company, then a late payment penalty shall be due to the Telephone Company. The late payment penalty shall be the portion of the payment not received by the payment date multiplied by a late factor. The late factor shall be, depending on the services provided the customer under this tariff:

1) 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 Telephone Company, or
- (b) 0.000590 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 Telephone Company, or

2) Late payment charge of 1.5% applied each month to the total remaining unpaid balance of the customer's bill.

Section 2 - General Regulations

2.8 Payment Regulations (Cont'd)2.8.3 Billing Disputes

In the event of a billing dispute, the billing dispute date is the date the customer presents sufficient written documentation to the Telephone Company to support its claim for incorrect billing. Sufficient written documentation consists of the following information, where such information is relevant to the dispute:

- A clear and full explanation of the basis of the dispute, including what the customer believes is incorrect (e.g., nonrecurring charge; mileage; circuit identification) and the reason why the customer believes the bill is incorrect (e.g., monthly rate billed not same as in tariff; facility not ordered; service not received)
 - The account number under which the bill was rendered
 - The date of the bill
 - The invoice number
 - The circuit number, line number, trunk group number, Two-Six Code (TSC), end office or tandem identification, or other appropriate facility identification
 - The exact dollar amount in dispute
 - The universal service order code(s) (USOCs) associated with the service
 - The Purchase Order Number(s) and dates involved for disputes involving order activity
 - Details sufficient to identify the specific amount(s) and item(s) in dispute
 - The name of the person responsible for the customer's dispute
 - Additional data as the Telephone Company reasonably requests from the customer to resolve the dispute. The request for such additional information shall not affect the customer's dispute date as set forth preceding.
- A. Any payments withheld pending settlement of the dispute shall be subject to the late payment penalty as set forth in 2.8.2(b) preceding.
- B. If the customer disputes the bill in writing on or before the payment date and pays the undisputed amount on or before the payment date, any late payment charge for the disputed amount will not start until 10 working days after the payment date.

Section 2 - General Regulations

2.8 Payment Regulations (Cont'd)2.8.3 Billing Disputes

C. If the billing dispute is resolved in favor of the customer, no late payment penalty will apply to the disputed amount.

- (1) In addition, if the customer disputes the bill amount in writing within 90 days of the payment date and pays the total amount (i.e., the undisputed amount and the disputed amount) on or before the payment date and the billing dispute is resolved in the favor of the customer, the Telephone Company will refund the disputed amount plus a disputed amount penalty from the date the customer paid the bill to the date of resolution of the dispute. If the customer files a claim in writing more than 90 days after the payment date and pays the total amount on or before the payment date and the billing dispute is resolved in favor of the customer, the Telephone Company will refund the disputed amount plus a disputed amount penalty from the date the claim was filed to the date of resolution of the dispute.
- (2) The disputed amount penalty shall be the disputed amount resolved in the customer's favor times a penalty factor. The penalty 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 first date to and including the last date of the period involved, or
 - (b) 0.000590 per day, compounded daily for the number of days from the first date to and including the last date of the period involved.

2.8.4 Adjustments for Services Established or Discontinued in a Billing Period

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 tariff will be prorated to the number of days or major fraction of days based on a 30 day month. Upon request, the Telephone Company will furnish such detailed information as may reasonably be required for verification of any bill if such information is available.

Section 2 - General Regulations

2.8 Payment Regulations (Cont'd)2.8.5 Rounding

When a rate in this tariff 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.

2.8.6 Multiple Copies of Bills

When more than one copy of a customer bill for services provided under the provisions of this tariff is furnished to the customer, an additional charge applies for each additional copy of the bill as set forth in Section 9.1.

2.9 Billing of Access Service Provided by Multiple Companies

When an Access Service is ordered by a customer where one end of the service is in one Exchange Telephone Company operating territory and the other end is in another Exchange Telephone Company operating territory, the Exchange Telephone Companies involved will agree upon a billing, design and ordering arrangement which is consistent with the provisions contained in this section and the Ordering and Billing Forum standards, Multiple Exchange Carrier Access Billing (MECAB) and Multiple Exchange Carrier Ordering and Design (MECOD). The multiple bill arrangement, as described in Section 2 of the Telephone Company's Interstate Access Tariff, is the only option available to the customer. If any changes are made in these arrangements, the Exchange Telephone Companies involved will give affected customers 30 days notice prior to implementation.

At the time an order is placed, the customer will be notified of the arrangement which will apply and any pertinent information pertaining thereto, e.g., the entity to which payment should be made, the entity to which billing inquiries should be made, the entity which will be responsible for adjustments to bills, etc.

Section 2 - General Regulations

2.10 Minimum Period Regulations2.10.1 General

The minimum period is the length of time a customer is required to make payment when Access Services are provided. The minimum period for any Access Services provided is one month, except as follows:

- A. The minimum period for Switched Access Service FGD, 500 Access Service, 800 Database and 900 Access Service which are provided from an end office equipped with equal access capabilities is three months.
- B. The minimum service period for Switched Access Service Automatic Scheduled Testing, Cooperative Scheduled Testing and Manual Scheduled Testing Services is one year and annually thereafter.
- C. The minimum period for a Specialized Service is established with each individual case filing. If not specified, the minimum period is one month.
- D. The minimum service period for DS3 (44.736 Mbps) High Capacity Special Access is a 1 year term plan. After the 1, 3 or 5** year term is satisfied, the customer must select a renewal option as referenced in Section 5.12.4(A) (1).
- E. The minimum period for Directory Assistance Service is three months.
- F. The minimum period for 1.544 Mbps High Capacity Special Access Services, Switched Access Services, and Local Exchange Access Service offered under an Optional Payment Plan (OPP) is three months.
- G. The minimum period for Switched Access Service and Local Exchange Access Service offered under an Optional Payment Plan (OPP) is twelve months.
- H. The minimum period for SNET SONET Network Service*is twelve months.
- I. The minimum period for Optical Carrier Network (OCN) Point-to-Point Service is twelve (12) months for a one year Term pricing Plan (TPP), thirty-six (36) months for a three year TPP, and sixty (60)** months for a five year TPP. After the minimum period is satisfied, the monthly extension rate will apply unless a TPP is selected.

2.10.2 Minimum Period Charges

When a service is discontinued prior to the expiration of the minimum period, a minimum period charge will apply. In addition, all nonrecurring charges associated with the provision of the service will be billed, e.g., installation of service and/or optional features, Service Order Modification Charges, Additional Labor Charges, etc.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

**Effective November 9th, 2013, customers may not establish new term plans greater than 36 months and term plans may not be renewed or extended for a term greater than 36 months.

Section 2 - General Regulations

2.10 Minimum Period Regulations (Cont'd)2.10.2 Minimum Period Charges (Cont'd)A. Services with a Minimum Period of One Month or Less

The minimum period charge will be computed based on the minimum monthly charge for the capacity ordered, as set forth in Section 6 of Tariff FCC No. 11.

B. Services with a Minimum Period Greater Than One Month

- (1) With the exception of Directory Assistance Service the minimum period charge will be the lesser of (a) the Telephone Company's total service or (b) the total monthly charges, at the rate level in effect at the time service is discontinued, for the remainder of the minimum period. The minimum charge for Directory Access service is equal to the total nonrecoverable costs.
- (2) The minimum period charge for 44.736 Mbps High Capacity Service is 100% of the monthly rate applicable to the initial 12 month period of the payment plan. In addition, a Termination Liability charge associated with the one, three or five year Optional Payment Plan (OPP) may apply as set forth in 2.11.1.1 following.
- (3) The minimum period charge for 1.544 Mbps High Capacity Special, Switched and Local Exchange Access Services offered under an Optional Payment Plan (OPP) is 100% of the monthly rate applicable to the initial 3-month period of the plan. In addition, a Termination Liability charge associated with the OPP may apply as set forth in 2.11.1.1. following.
- (4) The minimum period charge for SNET SONET Network Service* is 100% of the monthly rate applicable to the initial 12 month period of service.
- (5) The minimum period charge for Optical Carrier Network (OCN) Point-to-Point Service is 12 months.

2.10.3 Effect of Rearrangements and Changes on the Minimum PeriodA. Rearrangements Which Change the Minimum Period

The following service rearrangements and changes will be treated as the discontinuance of an existing service and the installation of a new service. A new minimum period will be established for the new service and all associated nonrecurring charges will apply for the new service. The customer will also remain responsible for all outstanding minimum period obligations associated with the disconnected service.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 2 - General Regulations

2.10 Minimum Period Regulations (Cont'd)2.10.3 Effect of Rearrangements and Changes on the Minimum Period (Cont'd)A. Rearrangements Which Change the Minimum Period (Cont'd)

- (1) A change of customer of record, i.e., Access Service is provided and billed to a different entity with no assumption of outstanding charges and/or liabilities.
- (2) A move to a different building.
- (3) A change of service type, i.e., Switched Access to Special Access, one type of Special Access to another, one type of Switched Access to another, Local Exchange Access to Switched Access or Special Access, or Switched or Special Access to Local Exchange Access, except as set forth in Section 6 of Tariff FCC No. 11.
- (4) A change in the type of Special Access Service Channel Termination.
- (5) A change in Switched Access Service or Directory Assistance Service Interface Group.
- (6) Change in Switched Access Service traffic type.
- (7) Change from two-point to multipoint or from multipoint to two-point Special Access Service.
- (8) A change in STP Access Mileage connection.
- (9) A change in STP Port Termination.
- (10) A change in STP Access Connection.
- (11) A change in Entrance Facility or Direct-Trunked Transport capacity.
- (12) A decrease in capacity of SNET SONET Network Services,* e.g., a change from OC12 to OC3 level of service.

B. Changes Which Do Not Change the Minimum Period

The following administrative changes will be made without charge to the customer records if they result in the continued provision and billing of the Access Service.

- (1) Change of customer name,
- (2) Change of customer or customer's end user premises address when the change is not a result of a physical relocation of equipment,
- (3) Change in billing data, i.e., name, address, contact name or telephone number,
- (4) Change of customer circuit identification,
- (5) Change of customer test line number,
- (6) Change of customer or customer's end user contact name or telephone number,
- (7) Change of jurisdiction, or
- (8) Change resulting from assignment or transfer of service with the assumption of outstanding charges and/or liabilities as set forth in Section 2.5.5.

A move of a point of termination at the customer premises or a move of a customer premises to a new location within the same building without an interruption of service or billing, other than that required to make the move, will not result in a change in the minimum period requirements.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 2 - General Regulations

2.11 Types of Rates and Charges

This section contains information pertaining to the different types of rates and charges in this tariff.

2.11.1 Monthly Rates (MR)

Flat recurring rates that apply each month, or fraction thereof, that a service or specific rate element is provided. For billing purposes, each month is considered to have 30 days.

* Rearrangement charges, which apply to Local Exchange Access Service, are in Section 18.1.

(D)

2.11.1.1 Optional Payment Plans (OPPs)

A. Description

An Optional Payment Plan (OPP) is a provision that allows a customer to select commitment period or term. Special Access DS3 (High Capacity 44.736 Mbps) Services are available with OPPs of 1, 3 and 5* year terms. Switched, Local Exchange Access DS3 (High Capacity 44.736 Mbps) Services and Frame Relay DS3 Port Connections are available with OPPs of 3 and 5 year terms. All other services are available with OPPs of 1, 3 and 5* year terms. During the effective term, rate decreases will automatically be applied to the monthly payments for the remaining months of the OPP. Monthly rates for services installed under this arrangement will not be subject to Telephone Company-initiated rate increases. Rate changes due to zone restructures after June 23, 1996 will flow through to the affected rate elements.

The following services are offered under an OPP:

- (1) DS3 (High Capacity 44.736 Mbps) Service rates and charges which apply to services billed under an OPP are set forth in Section 6.3.1 of Tariff FCC No. 11 and Section 5.12.4 of this intrastate Tariff.

(D)

* Effective November 9th, 2013, customers may not establish new term plans greater than 36 months and for Optional Payment Plan (OPP) term plans may not be extended for a term greater than 36 months.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)2.11.1.1 Optional Payment Plans (OPPs) (Cont'd)A. Description (Cont'd)

- (2) DS1 (High Capacity 1.544 Mbps) Services offered under an OPP will have monthly rates reduced by a fixed percentage for the Entrance Facility, Channel Termination, Direct Trunked Transport, DS1 Inter-Wire Center Transport and Interoffice Transmission Facilities Mileage and DS1-VG Multiplexer rate elements as set forth in Section 6.3.1 of Tariff FCC No. 11 and Section 5.12.4 of this intrastate Tariff. The amount of the discount percentage based on the length of the commitment period selected by the follows:

(D)

1 Year	5%
3 Year	15%
5 Year*	25%

- (3) Fractional DS1 service rates and charges which apply to services billed under an OPP are set forth in 5.12 following.

Customers subscribing to an OPP will be subject to nonrecurring charges as set forth in Section 6.3.1 of Tariff FCC No. 11 and Section 5.12.4 of this intrastate tariff for installation and in 2.11.4 C & D following for rearrangements of services covered by the plan.

(D)

Nonrecurring charges will not be spread over an OPP term. If the customer subscribes to an OPP on an existing service and requests no other changes to the service, no nonrecurring charge will apply.

B. Termination Liability

A termination liability applies during the selected commitment period. If service is disconnected in full or in part prior to the end of the selected commitment period, the customer is liable for a termination liability charge. Further, except as provided in C, D and E following, when a customer cancels an OPP prior to the end of the selected commitment period, the customer is liable for a termination liability charge.

The termination liability charge applies to each service disconnected or, in the case of cancellation of an OPP, to each service, which had been included in the canceled OPP.

It is the customer's responsibility to give the Telephone Company notice of the intent to terminate an OPP. Recurring charges will apply for a period of one month from the date the Telephone Company receives the termination notice or until the requested termination date, whichever period is longer. These charges will apply during this period whether or not the customer continues to use the service.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)2.11.1.1 Optional Payment Plans (OPPs) (Cont'd)B. Termination Liability (Cont'd)

The termination liability charge is calculated as set forth in (1) or (2) following. The Telephone Company will apply the option, which produces the lowest termination liability charge to the customer.

(1) Option 1

Customers requesting termination of service are liable for the minimum period service charge and the following termination liability percentages. The termination liability charges are applied as follows:

- DS3 termination liability percentages are applied to the applicable Entrance Facility, Channel Termination, Direct Trunked Transport Mileage, DS3-DS1 Multiplexer, DS3 Inter-Wire Center Transport and DS3 Interoffice Transmission Facilities monthly rates for the remaining months of the OPP as follows:

<u>OPP</u>	<u>Percentages</u>
1 Year Plan	75
3 Year Plan	75
5 Year Plan	60

- DS1 and Fractional DS1 termination liability will be assessed at 50% of the applicable Entrance Facility Channel Termination, Direct Trunked Transport, Mileage, DS1-VG Multiplexer, DS1 Inter-Wire Center Transport and DS1 Interoffice Transmission Facilities monthly rates for the remaining months of the Optional Payment Plan (OPP) as follows:
 - (a) For disconnects on or prior to the end of the minimum period, the termination liability charge applies to each month and fraction thereof remaining between the end of the minimum period and the end of the selected commitment period.
 - (b) For disconnects after the end of the minimum period but prior to the end of the selected commitment period and for OPP cancellations prior to the end of the selected commitment period, the termination liability charge applies to each month and fraction thereof in the balance of the selected commitment period.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)2.11.1.1 Optional Payment Plans (OPPs) (Cont'd)B. Termination Liability (Cont'd)

(2) Option 2

For DS3 services discontinued prior to the end of the minimum period customers are liable for the minimum period service charge and the termination liability charge will be the difference between the full monthly rates and the OPP monthly rates for the period the plan has been in effect.

For DS1, Fractional DS1, 56 Kbps, 64 Kbps, and Frame Relay Service discontinued prior to the end of the minimum period, customers are liable for the minimum period service charge and the termination liability charge will be the difference between the full monthly rates and the OPP monthly rates for the period the plan has been in effect.

For services discontinued after the end of the minimum period of a plan but prior to the end of the selected commitment period, the following applies:

- Where there is no OPP period less than the actual time the service(s) have been in effect, the termination liability charge will be the difference between the full monthly rates and the selected OPP monthly rates for the period the plan has been in effect.
- Where there is an OPP period less than the actual time the service(s) have been in effect, the termination liability charge will be the difference between the monthly rates for the longest OPP period that could have been satisfied prior to discontinuation of the service and the monthly rates for the selected commitment period multiplied by the actual number of months the plan has been in effect.

For example:

If a customer subscribes to a 5 year OPP and terminates service during the 48th month, the longest OPP period that could have been satisfied is three years. The customer's termination liability would be calculated as follows:

(3 year OPP monthly rate - 5 year OPP monthly rate) X 48

The monthly rates used to calculate termination liability charges are not subject to the reductions set forth in Section 6.1.3 of Tariff FCC No. 11 and 5.3.3 of this intrastate Tariff.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)2.11.1.1 Optional Payment Plans (OPPs) (Cont'd)B. Termination Liability (Cont'd)

When a customer disconnects some, but not all, of its 44.736 Mbps Services, the monthly rates used to calculate termination liability charges are applied in ascending order beginning with the lowest applicable rates.

The termination liability charge applies in addition to applicable minimum period charges.

C. Portability

Portability allows a customer to replace a service in an OPP with another service for the balance of the commitment period. Termination liability will not apply when the customer meets the requirements for portability as specified below:

- The replacement service must be of the same speed as the disconnected service and must not already be in an OPP.
- The orders to accomplish the replacement are placed with the Telephone Company within sixty(60) days of the disconnect order.
- The number of services included in the OPP remains the same.

D. Additions of Service

When a customer with an existing OPP wishes to increase the number of services of the same type between the same two locations, it has the following options:

- (1) Subscribe to the additional services under standard rates.
- (2) Subscribe to the additional services under a separate OPP at the then effective OPP rate.
- (3) Cancel the existing OPP and include both the existing and the additional services under a new OPP for a commitment period equal to or longer than the original period. No termination charges apply to such cancellation.

E. Extension of Commitment Period*

A customer may, at any time prior to the expiration of the selected commitment period for an existing OPP or month-to-month plan, change to an OPP with a longer commitment period at the then effective OPP rates. No termination liability charges will apply for any services extended under the longer commitment period. The monthly rates applicable for the longer commitment period will apply effective with the customer's next bill day following the request for the change.

* Effective November 9th, 2013, customers may not establish new term plans greater than 36 months and term plans may not be extended for a term greater than 36 months.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)2.11.1.1 Optional Payment Plans (OPPs) (Cont'd)F. Rate Regulations

Where an OPP is requested coincident with the connection of new service, it will be effective with the establishment of service.

Where an OPP is requested on existing service, the effective date will be the date negotiated with the customer.

At the end of its selected commitment period, the customer will have the option of subscribing to any then effective OPP or of retaining the service under the standard rates in effect at that time. If the customer does not choose one of the preceding options prior to the expiration date of the commitment period, monthly extension rates will be applied upon expiration of the commitment period.

G. Conversion of Existing Shared Use Facilities

In some instances customers may choose to mix Switched, Special and Local Exchange Access channels on the same DS1 or DS3 facility. When ordering a new Switched, Special or Local Exchange Access facility covered by an OPP or when converting an existing month-to-month Switched, Special or Local Exchange Access facility to an OPP, all channels (Switched, Special and Local Exchange Access) on the facility must be covered by their respective (Switched, Special and Local Exchange Access) OPP of the same term length and expiration date.

H. Zone Restructure

Rates for DS1 and DS3 services (See Section 6.3.1 of Tariff FCC No. 11 and 5.12.4 of this intrastate Tariff) from those Zone 2 central offices previously designed as Zone 1 offices (i.e., New Haven 02, New Haven 03, Bridgeport 01, and Danbury 00) which were ordered under OPPs prior to June 23, 1996, will be "grandfathered" at rates in effect as of June 23, 1996. These rates will remain grandfathered until such time as the applicable OPP term expires, or the grandfathered rate equals or exceeds the Zone 2 rates, whichever is earlier.

2.11.1.2 Daily Rates (DR)

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

The application of daily rates during a consecutive 30-day period is as follows. Daily rates will be topped at an amount equal to the monthly rate, i.e., the charge to the customer for usage filed at daily rates will not exceed the monthly rate. For each day or partial day of usage after the daily rates have been topped, a charge equal to 1/30th of the monthly rate will apply.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)2.11.1.3 Switched Access Commitment Discount PlanA. Description

The Switched Access Commitment Discount Plan is an optional plan, which offers customers a succession of guaranteed, declining usage rates over a five-year period. All Feature Group B and Feature Group D access usage is eligible to be included in this plan. Discounted switched usage rate elements that comprise the plan are listed below with references to the tariff sections in which the applicable rate schedules are set forth.

- a. Carrier Common Line Charges (Section 4.3.3)
- b. Local Switching (Section 6.3.2 of Tariff FCC No. 11)
- c. Information Surcharge (Section 6.3.4 of Tariff FCC No. 11)
- d. Switched Transport Interconnection Charge (Section 6.3.1 of Tariff FCC No. 11)

The Commitment Discount Plan rates apply only on an "all or nothing" basis; *i.e.*, a customer may not choose a subset of the Commitment Plan rate elements. In the event that the sum of the Telephone Company's standard rates for the above rate elements falls below the sum of Commitment Plan rates, the customer will automatically be billed the rates with the lesser sum. The length of the customer's five-year commitment period will not be affected by such a change to standard rates.

Customers subscribing to the plan within three months of the effective date of this tariff will also receive a credit equivalent to the difference between the first year discount rate and the standard non-discounted rate multiplied by the sum of the customer's billed MOU for the period between July 1, 1996 and the effective date of the customer's order.

B. Customer Requirements

To initiate participation in the Switched Access Commitment Discount Plan, the customer is required to sign an authorization agreement. This agreement will specify the Carrier Identification Codes (CICs) and billing account numbers, which will be included in the plan.

In order to continue participation in the Commitment Plan, the customer must meet one of the following requirements for each successive twelve-month period:

- a. Maintain 95% of the customer's prior 12 months' total of interstate and intrastate access MOU, (excluding Feature Group A MOU); or)

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)

2.11.1.3 Switched Access Commitment Discount Plan (Cont'd)

B. Customer Requirements (Cont'd)

- b. Provide certification, via a third party independent auditor, that 90% or more of the customer's total switched access MOU originating in the Company's geographical serving area have been switched by the Company pursuant to its tariffs. Such certification shall be provided to the Company within two months of the end of each twelve-month period. The auditor may be selected by the customer, but shall be subject to the Company's approval.

For purposes of meeting the requirements of this section, the first twelve-month period will begin on the effective date of the customer's order and each succeeding period will begin twelve months thereafter.

C. Termination Liability

In the event the customer fails to meet either of the requirements described above for any twelve-month period, the customer will be assessed any difference between the actual billed amount and the amount which would have been assessed based on the nondiscounted rates in existence from the time the discounted rates were first applied. Interest shall be applied at the rate of 8% annually for the number of days from the original payment date to and including the date that the customer makes payment for the amount of the difference. The customer's participation in the Commitment Discount Plan will also be terminated.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)2.11.2 Usage Sensitive Rates

Usage rates are normally associated with Switched Access Service and Local Exchange Access Port Service. These rates apply on a per access minute, a per call or per originating local port minute of use basis, and are accumulated over a monthly period.

2.11.3 Distance Sensitive Rates

The application of distance sensitive rates, i.e., Switched Transport, Special Access Channel Mileage, SNET SONET Network Service*, Channel Mileage, Optical Carrier Network (OCN) Point to Point Service, and Local Exchange Access Inter-Wire Center Transport and Interoffice Transmission Facilities for unbundled network elements and Direct Transport for network interconnection requires the determination of the airline distance between a serving wire center (SWC) and an end office or two or more serving wire center (SWC) locations as follows:

A. Determine the SWC locations:

- (1) Switched Transport - The SWC location that serves the customer location and the end office location where the call originates or terminates. Exceptions to this general rule are set forth in Section 6.2.1 of Tariff FCC No. 11, Mileage Measurement.
- (2) Special Access Service Including Switched Access Direct-Trunked Transport and Dedicated Signalling Transport

- The SWC locations may be:

- (a) two SWCs associated with a customer premises,
- (b) a SWC and a Telephone Company Hub location,
- (c) two Telephone Company Hub locations, or
- (d) a SWC and a Telephone Company Access Tandem or End Office

When Hubs are involved, mileage is computed and rates are applied separately for each section of the Channel Mileage or Direct-Trunked Transport. However, when any service is routed through a Hub for purposes other than customer specified bridging or multiplexing, e.g., the Telephone Company routes via a Hub location for test access purposes, rates will be applied only to the distance calculated between the SWCs associated with the customer premises, end office or Telephone Company Access Tandem.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)2.11.3 Distance Sensitive Rates (Cont'd)

A. Determine the SWC locations: (Cont'd)

- (3) Local Exchange Access - Inter-Wire Center Transport and Interoffice Transmission Facilities for Unbundled Network Elements and Direct Transport for Network Interconnection

The SWC location may be:

- (a) the SWC associated with the End Office where customer purchased Loops and/or Ports,
- (b) a SWC and a Telephone Company Hub Location, or
- (c) two Telephone Company Hub Locations.
- (d) the SWC location that serves the customer location (e.g., office location where the call originates)

B. Compute the mileage between the SWC locations:

- (1) Look up the V&H coordinates of the SWCs in National Exchange Carrier Association Tariff FCC No. 4, Wire Center Information and Interconnection.
- (2) Determine the difference between the V&H coordinates, respectively, by subtracting the smaller coordinate from the larger coordinate.
- (3) Square the V&H differences separately.
- (4) Add the squares of the two differences and divide the sum by 10.
- (5) Take the square root of the result obtained in (4).
- (6) Round any fractional value up to the next integer.

<u>Example</u>	<u>V</u>	<u>H</u>	
SWC A -	5016	1430	
SWC B -	5038	1453	
Differences -	22	23	
Differences Squared -	484	529	Sum of squared differences - 1013
			Sum divided by 10 - 101.3
			Square root - 10.0648
			Rounded to - 11

C. Application of mileage:

- (1) For Tandem-Switched Access Service, multiply the mileage by the Tandem-Switched Transport facility rate and the access minutes to be billed.
- (2) For Direct-Trunked Transport, determine the applicable capacity, which is utilized and multiply the applicable rates times the mileage.
- (3) For Special Access Service and Interoffice Transmission Facilities, determine the applicable rate mileage band into which the computed mileage falls and multiply the applicable rates times the mileage.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)2.11.4 Nonrecurring Charges (NRCs)

One-time charges that apply for a specific work activity, e.g., installation, rearrangements, moves, etc.:

A. Installation of Service

Nonrecurring charges apply to each service installed.

For Switched Access Service which is ordered on a per line or per trunk basis, the charge is applied per line or trunk.

B. Installation of Optional Features and Functions

Nonrecurring charges apply for the installation of certain Switched Access Service Optional Features and Special Access Service Optional Features and Functions. Such charges apply whether the feature is installed coincident with the initial installation of service or at any time subsequent to the installation of the service, i.e., a service rearrangement.

Nonrecurring charges for Local Exchange Access Service Features apply.

(D)

C. Switched Access and Directory Assistance Service Rearrangements

- (1) If a customer request involves the addition of an optional feature or function, which has a separate nonrecurring charge, the nonrecurring charge applies.
- (2) A nonrecurring charge as specified in Section 6.3.2 (E) of Tariff No. 11 900 Access Service following applies to a customer in the operating territory of the Telephone Company. The charge applies to the initial loading of a 900 NXX code required to establish service and to any additional NXX codes required. The charge also applies in the same manner for any subsequent request for additions of NXX codes.
- (3) If, due to technical limitations of the Telephone Company, a customer could not combine its 500 Access Service, 800 Database or 900 Access Service traffic with its other trunk side Switched Access Services, no charge shall apply to combine these trunk groups when it becomes technically possible.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)2.11.4 Nonrecurring Charges (NRCs) (Cont'd)C. Switched Access and Directory Assistance Service Rearrangements (Cont'd)

- (4) If the change involves the reconfiguration of an existing Direct-Trunked Transport facility from 1) an existing DS1 capacity facility into part of a DS3 capacity facility either Direct-Trunked Transport, Special Access or SNET SONET Network Service, or 2) an existing DS1 on a DS3 capacity onto a different DS3 capacity, or 3) an existing DS3 capacity to an SNET SONET Network Service, a unique nonrecurring charge referred to as a rollover charge will apply to the existing high capacity facility as set forth in 5.12.4 of this intrastate Tariff.

The rollover charge applies to services requiring no additional change(s) at the time of the rollover. If the customer requests any change be made to the Feature Group Service at the time of rollover, the appropriate rearrangement charge(s) shall apply.

- (5) If the change involves the retermination of an existing Switched Transport DS1 or DS3 Direct-Trunked Transport Service from the existing point of termination to a DS1 or DS3 cross-connect provided to the collocated space of an interconnect customer subscribing to Expanded Interconnection, then a unique retermination charge shall be assessed per DS1 or DS3. This retermination charge will only apply if the existing DS1 or DS3 service is routed through the same central office as the interconnect customer's collocated space. If the existing DS1 or DS3 service is not routed through the same central office as the interconnect customer's collocated space, then normal rearrangement charges shall apply as specified herein.

The DS1 and DS3 retermination charges are set forth in 5.12.4A of this intrastate Tariff.

- (8) For all other changes, including the addition of, or modifications to, optional features without separate nonrecurring charges, a charge equal to the nonrecurring charge for the addition of a trunk will apply as set forth in Section 6.3.1 (F) of Tariff FCC No. 11. When an optional feature is required for an entire transmission path group, an end office or a Telephone Company access tandem switch, rather than on each transmission path, only one such charge will apply, i.e. the charge will not apply per transmission path.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)

2.11.4 Nonrecurring Charges (NRCs) (Cont'd)

D. Special Access Service Rearrangements

- (1) If a change involves the addition of an optional feature or function, which has a separate nonrecurring charge, the nonrecurring charge applies.
- (2) If the change involves the addition of another leg to an existing multipoint Special Access Service, the nonrecurring charge for the channel termination rate element will apply for the leg that is being added only.
- (3) If the change involves changing the type of signaling on a Voice Grade Special Access Service, a charge equal to the Voice Grade channel termination rate element nonrecurring charge will apply per service termination affected.
- (4) If the change involves the reconfiguration of an existing High Capacity facility into part of a higher bit rate multiplexed Special Access or Direct-Trunked Transport High Capacity facility, or to an SNET SONET Network Service*, a unique charge referred to as a rollover charge will apply to the existing High Capacity facility.

The rollover charge applies to services requiring no additional change(s) at the time of the rollover. If the customer requests any change be made to the service at the time of rollover, the appropriate rearrangement charge(s) shall apply.

Rollover charges are set forth in 5.12.4A following.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)

2.11.4 Nonrecurring Charges (NRCs) (Cont'd)

D. Special Access Service Rearrangements (Cont'd)

- (5) If the change involves the retermination of an existing Special Access DS1 or DS3 service from the existing point of termination to a DS1 or DS3 cross-connect provided to the collocated space of an interconnect customer subscribing to Expanded Interconnection, then a unique retermination charge shall be assessed per DS1 or DS3. This retermination charge will only apply if the existing DS1 or DS3 service is routed through the same central office as the interconnect customer's collocated space. If the existing DS1 or DS3 service is not routed through the same central office as the interconnect customer's collocated space, then a normal rearrangement charge shall apply as specified herein.

The DS1 and DS3 retermination charges are set forth in 5.12.4A.

- (6) For all other changes, including the addition of optional features without separate nonrecurring charges, a charge equal to a channel termination rate element nonrecurring charge will apply. Only one such charge per service will apply per change.

E. Local Exchange Access Service Rearrangements

Nonrecurring charges for Local Exchange Access Service rearrangements are in Tariff Section 18. Additional nonrecurring charges which may apply are defined in Section 18.1, Local Exchange Access Service.

(D)

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)2.11.4 Nonrecurring Charges (NRCs) (Cont'd)F. Moves

A move involves a change in the physical location of (a) the point of termination at the customer premises or (b) the customer premises. The charges for the move depend on whether the move is to a new location within the same building or to a different building. These charges do not apply to Local Exchange Access Loop Service or Wholesale Local Service. The appropriate charges are set forth in Section 18.1 of this Tariff. (D)

- (1) Moves Within the Same Building - The charge will be an amount equal to one half of the nonrecurring charge, i.e., installation charge, for the service or Switched Access Service capacity affected. There will be no change in minimum period requirements.
- (2) Moves to a Different Building - Moves to a different building will be treated as a discontinuance, and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new service and the customer will remain responsible for satisfying all outstanding minimum period charges for the discontinued service.
- (3) Moving a Service Subject to a Maximum Termination Liability (MTL)

When a service with a maximum termination liability charge is moved to a new location, the customer may elect:

- (a) to pay the unexpired portion of the MTL charge for the service, if any, with the application of a nonrecurring charge and the establishment of a new MTL charge for such service at the new location, or
- (b) to continue service subject to the unexpired portion of the MTL charge, if any, and pay the estimated costs of moving such service, provided that the customer requests these charges be quoted prior to ordering the service move. Move charges include the estimated costs of removal, restoration of services or facilities necessitated by the move, transportation, storage, reinstallation, engineering, labor, supervision, materials administration, and any other specific items of cost attributed to the move.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)

2.11.4 Nonrecurring Charges (NRCs) (Cont'd)

G. Re-establishment of Service Following Fire, Flood or Other Occurrence

- (1) 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:
 - (a) The service is of the same type as was provided prior to the fire, flood or other occurrence.
 - (b) The service is for the same customer.
 - (c) The service is at the same location on the same premises.
 - (d) 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 allowed time period.
- (2) 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.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)2.11.5 Service Installation GuaranteeA. General

The Telephone Company assures that when a customer orders certain Access Services, as specified in B. following, the service will be installed and available for customer use no later than the Confirmed Service Date (due date).

For each eligible service, failure of the Telephone Company to meet a Confirmed Service Date will result in a credit as shown in 2.11.6(B) for that service when the responsibility for the failure is solely the Telephone Company's.

B. Services Subject to the Service Installation Guarantee

The services listed in the Missed Installation Credit Schedule found below will be credited for a missed installation on a Confirmed Service Date as show:

Missed Installation Credit Schedule

Services	Credit Amount
Switched Transport - Entrance Facility DS3	\$600.00
Switched Transport - Entrance Facility DS1	\$350.00
Switched Transport - Direct-Trunked Transport DS3	\$600.00
Switched Transport - Direct-Trunked Transport DS1	\$350.00
Special Access DS3 High Capacity Service	\$600.00
Special Access DS1 High Capacity Service	\$350.00
Special Access Fractional DS1 High Capacity Service	\$350.00
Special Access DDS	\$250.00

When a Credit Allowance Does Not Apply

- (1) When failure to meet the confirmed service date occurs because of conditions listed in Sections 2.3 and 2.5.
- (2) The customer requests an expedited order.
- (3) The customer provides an incorrect address.
- (4) The customer and/or premises is inaccessible.
- (5) The customer changes interface requirements subsequent to placing the order.
- (6) The customer is not ready to accept service on the confirmed service date.
- (7) Building facilities, including space, cable support structures, building risers and entrance facilities to be provided by builder or owner or owner's subcontracted vendors, are not ready on the confirmed service date.

Section 2 - General Regulations

2.11 Types of Rates and Charges (Cont'd)2.11.5 Service Installation Guarantee (Cont'd)B. Services Subject to the Service Installation Guarantee (Cont'd)When a Credit Allowance Does Not Apply (Cont'd)

- (8) The customer orders termination beyond the network interface.
- (9) Services are provided under Special Construction as specified in Section 10.
- (10) Specialized Service or Arrangements as set forth in Section 7 or Individual Case Basis tariff filings as set forth in Section 8.
- (11) When the Telephone Company (Telco) is not the designated Access Service Coordination Exchange Carrier (ASC-EC) and the confirmed due date is not met by the Local Exchange Company (LEC) acting as the ASC-EC for its portion of the service. (See Diagram below)
- | | | |
|-------------|---------|----------------|
| | Telco | Another |
| Telco | Credit | Credit |
| Misses Date | applies | applies |
| Another LEC | Credit | Credit |
| Misses Date | applies | does not apply |
- (12) Service Rearrangements and Moves within the same building as described in Section 2.11.4 C, D and E.
- (13) When the delay is caused by work stoppages, civil disturbances, criminal actions; or by fire, flooding or other occurrences attributed to an Act of God and other circumstances beyond the Telephone Company's reasonable control.
- (14) To the derived services of a multiplexed 1.544Mbps Service or the derived switched services of a shared use High Capacity Service.
- (15) When Special Access is provided with Network Reconfiguration Service (NRS).
- (16) When the nonrecurring installation charges associated with the service are waived or zero rated.
- (17) For installations of Optional Features and Functions or installations of services that do not have a corresponding Nonrecurring rate element.

In addition, Service Installation Guarantees will not apply during a declared National Emergency. Priority installation of National Security Emergency Preparedness (NSEP) telecommunications services shall take precedence.

Section 2 - General Regulations

2.11.6 Network Upgrades to SNET SONET Network Services*

- A. When an existing DS1 or DS3 high capacity service OPP customer converts their existing DS1 and DS3 services to upgrade their network topology to SNET SONET Network Service, termination liability will not apply on the OPPs if the total service capacity subscribed to on SNET's network remains the same (or increases) between the same two locations.
- B. Network Optimization Waiver - The Network Optimization Waiver will allow customers to reconfigure existing DS1 and DS3 Special and Switched Access services to connect to SNET SONET Network Service to improve utilization in the customer's network. This feature will waive the nonrecurring rearrangement charges for the DS1 and DS3 services reconfigured. The reconfigured services should be identified at the time that the new SNET SONET Network Service is ordered and the network reconfiguration will be treated as a coordinated project.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 2 - General Regulations

2.12 Credit Allowance for Service Interruptions2.12.1 General

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this tariff or in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer. An interruption period starts when an unusable service is reported to the Telephone Company and ends when the service is usable.

The credit allowance(s) for an interruption or for a series of interruptions shall not exceed the sum of (a) the monthly rates; or (b) the assumed minutes of use charge, whichever is (are) applicable for the service interrupted in any one monthly billing period.

Credit allowances for service interruptions in 2.12. of this tariff do not apply to 1G Dedicated Ethernet.

For applicable service interruption credit allowances, see terms and conditions associated with the service.

2.12.2 When a Credit Allowance Applies

In case of an interruption to any service not due to the negligence of the customer, allowance for the period of interruption shall be as follows:

A. Switched Access Service and Directory Assistance Service

A credit allowance for service interruptions will be applied to Switched Access Service and Directory Assistance Service depending on whether or not the interruption is associated with a service that is usage rated or monthly flat rated as set forth in (1) and (2) following:

(1) Credit Allowance for Usage Rated Services

For Switched Access Service Tandem-Switched Transport, Tandem-Switched Directory Transport, and Interconnection Charge, where such services are billed on a measured, usage sensitive basis, a credit allowance does not apply.

If the service experiencing an interruption includes associated optional features being billed monthly recurring rates, credit for the associated features will be billed at the rate of 1/30th of the applicable monthly rates for each period of 24 hours or major fraction thereof that the interruption continues.

Section 2 - General Regulations

2.12 Credit Allowance for Service Interruptions (Cont'd)2.12.2 When a Credit Allowance Applies (Cont'd)A. Switched Access Service and Directory Assistance Service (Cont'd)(2) Credit Allowance for Monthly Flat Rated Services

For Switched Access Service Entrance Facilities, Direct-Trunked Transport, and Direct-Trunked Directory Transport with monthly recurring rates as set forth in 4.3.1 A and B and 11.6 B, 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 all associated monthly rates for the facility or service (including any monthly rated optional features associated with this transport facility or service) for each period of 30 minutes or major fraction thereof, that the interruption continues, and as specified in Section 2.12.2.F.

When a Switched Access Direct-Trunked facility experiences an interruption of service, a credit applies to the facility itself as described above. When a customer who has both Direct-Trunked and Tandem Access facilities serving an end office experiences an interruption of service greater than 2 hours, the customer will receive an additional credit based on the traffic on the out-of-service facility that is diverted to the tandem and charged at tandem rates. The MOU credit will be derived by assuming 9000 MOU per trunk per month; therefore, the daily credit would be limited to 300 MOU per trunk. The credit will be based upon an assumed tandem transport facility mileage of 20 miles.

For example, if a DS1 carrying 24 trunks is out-of-service for 4 hours, the outage time is equal to 240 MOU per trunk. The credit is calculated as follows:

$$\begin{array}{rcl}
 & 240 & \text{minutes} \\
 & \times 24 & \text{trunks (DS1)} \\
 = & 5760 & \text{MOU credit, multiplied by Tandem} \\
 & & \text{Switched Transport rates for 20 miles}
 \end{array}$$

Any outage exceeding 5 hours would be credited at 5 hours (5 hours X 60 minutes/hour = 300 total minutes out of service for one trunk). The daily MOU credit is limited to 300 per day.

This credit is only applicable if the customer has purchased tandem trunks to the tandem that serves the end office where the out-of-service Direct-Trunked facility terminates.

For transport facilities using the multiplexing feature, credit will be allowed as set forth following:

Section 2 - General Regulations

2.12 Credit Allowance for Service Interruptions (Cont'd)2.12.2 When a Credit Allowance Applies (Cont'd)A. Switched Access Service and Directory Assistance Service (Cont'd)

Multiplexed services - the monthly charge 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.

When a service which rides a channel 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.

For multiplexed service ordered under the Shared Network Arrangement, the Host Subscriber, as well as each Service User, must notify the Telephone Company of any service outage in order to receive their portion of the credit allowance.

Dedicated Signaling Transport - consisting of a 56 kbps circuit, the monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service from the customer's point of interconnection to the Telephone Company's STP (i.e., STP Access Mileage, STP Access Connection and STP Port Terminations).

B. Special Access Services (other than Video Service) and Frame Relay Service

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, and as specified in Section 2.12.2F.

The monthly charges used to determine the credit shall be as follows:

- (1) Two-point services - the monthly charge shall be the total of all the monthly rate element charges associated with the service.
- (2) Multipoint services - the monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service that is inoperative between the Hub and a customer premises.

Section 2 - General Regulations

2.12 Credit Allowance for Service Interruptions (Cont'd)2.12.2 When A Credit Allowance Applies (Cont'd)B. Special Access Services (other than Video Service) and Frame Relay Service (Cont'd)

- (3) Multiplexed services - the monthly charge 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.

When a service which rides a channel 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.

- (4) Special Access Services Subject to an Error Performance Standard (Wideband Data, WD1-3; Digital Data, DA1-4; and High Capacity, HC1) - any period during which the error performance is below that specified for the service will be considered as an interruption.
- (5) For multiplexed service ordered under the Shared Network Arrangement, the Host Subscriber, as well as each Service User, must notify the Telephone Company of any service outage in order to receive their portion of the credit allowance.

C. Video Special Access 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:

(1) Two-point services

- (a) 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 fraction thereof that the interruption continues.
- (b) 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 fraction thereof that the interruption continues.

(2) Multipoint services

- (a) 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 fraction thereof that the interruption continues.

* This regulation is limited to existing customers at existing locations as of April 1, 2004.

Section 2 - General Regulations

2.12 Credit Allowance for Service Interruptions (Cont'd)2.12.2 When a Credit Allowance Applies (Cont'd)C. Video Special Access Services (Cont'd) *(2) Multipoint services (Cont'd)

(b) 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 fraction thereof that the interruption continues.

(c) the credit for the monthly or daily charges includes the charges for the distribution amplifier only when the distribution amplifier is inoperative.

(3) Multiple Interruptions - Two or more interruptions which occur during period of 5 consecutive minutes shall be considered as one interruption.

D. Specialized Access Services

Specialized Access Services provided under the provisions of Section 8 shall be administered in the same manner as those set forth for Switched or Special Access Service unless other regulations are specified with the individual case filing.

E. Credit Allowance for Directory Assistance (DA) Calls

When a DA location or DA operator equipment or terminals are out of service due to Telephone Company equipment failure and a customer DA call has been forwarded to a DA operator, a credit allowance will be applied to the customer's account. The credit will be equal to the rate for a Directory Assistance Service Call set forth in Section 11. plus an amount equal to the average per call rate for Directory Transport set forth in Section 11.

F. Service Maintenance Guarantee (SMG) *

The customer shall be credited the Service Maintenance Guarantee (SMG) credit, specified below, for service interruptions of 2 hours or more in duration. The SMG credit will be applied on the following services:

Special Access DDS (Section 5.12)

Special Access Fractional DS1 High Capacity Service (Section 5.12)

Special Access DS1 High Capacity Service (Section 5.12)

Special Access DS3 High Capacity Service (Section 5.12)

Switched Transport - DS1 and DS3 Entrance Facilities and Direct-Trunk Transport (Section 6.3.1 of Tariff FCC No. 11)

* This regulation is limited to existing customers at existing locations as of April 1, 2004.

Section 2 - General Regulations

2.12 Credit Allowance for Service Interruptions (Cont'd)2.12.2 When a Credit Allowance Applies (Cont'd)F. Service Maintenance Guarantee (SMG) (Cont'd) *

This credit allowance is in addition to the credit allowance in Section 2.12.2A(2) and B. The SMG credit allowance can only be applied once in any one monthly billing period, on a per circuit basis. The SMG credit allowance is applied to the customer bill in addition to the existing monthly service rates, and in addition to any existing credit allowances. The total credit allowance available to the customer, regardless of the number of service interruptions in any one monthly billing period, will not exceed 100% of the combined monthly rates per affected service.

Interruption Period Applicable Credit

More than 30 minutes, but less than 2 hours	1/1440th per 30 minute interval as stated in Section 2.12.2A(2) and 2.12.2B	
2 hours but less than 4 hours	DS3	\$1075
	DS1	\$120
	Fractional DS1	\$60
	DDS	\$45
	Voice Grade	\$30
Over 4 hours	DS3	\$2150
	DS1	\$240
	Fractional DS1	\$120
	DDS	\$90
	Voice Grade	\$60

For service interruptions 4 hours or greater, the customer shall be credited as follows:

- (i) For the initial 4 hour outage in a 30 day period, in lieu of the credit described in 2.12.2A(2) and 2.12.2B, the customer will be credited as shown in the schedule below.
- (ii) Additional service interruptions that are 4 hours or greater that occur in the same 30 day period will be calculated at the rate of 1/1440 per 30 minute interval.

The total credit allowance available to the customer regardless of the number or type of service interruptions within a 30-day period will not exceed 100% of the combined monthly rates per affected service.

Interruption PeriodApplicable Credit

More than 30 minutes but less than 4 hours	1/1440th per 30 minute interval as stated in Section 2.12.2A(2) and 2.12.2B	
4 Hours or more	Metallic	\$5.00
	Telegraph	\$5.00
	Video	\$10.00
	Voice Grade	\$10.00
	DDS	\$15.00
	Fractional DS1	\$120.00
	DS1	\$120.00
	DS3	\$380.00

* This regulation is limited to existing customers at existing locations as of April 1, 2004.

Issued: October 17, 2014

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Section 2 - General Regulations

2.12 Credit Allowance for Service Interruptions (Cont'd)2.12.2 When a Credit Allowance Applies (Cont'd)G. SNET SONET Network Service (SSNS)* Premium Service Maintenance Guarantee

SNET SONET Network Service (SSNS) is offered with the Premium Service Maintenance Guarantee, which assures uninterrupted service. If service is interrupted for longer than a minute and is due to an SNET facility failure, the customer will be credited 100% of the monthly rate for the applicable SSNS rate elements of the service affected. Only one such credit may be applied in any single month's billing period.

H. Local Exchange Access Service

A credit allowance for service interruptions will be applied to Local Exchange Access Service as follows:

Loop, Port and Wholesale Local Services

No credit is allowed for interruptions to service of less than twenty-four hours. Interruptions of twenty-four hours or over, which are reported to the Telephone Company or detected by the Telephone Company, and which are not due to the negligence or willful act of the customer's end user or customer are credited to the customer at the proportional monthly charge involved for each twenty-four hours or major fraction thereof of interruption. An interruption period starts when an unusable service is reported to the Telephone Company and ends when the service is usable.

Inter-Wire Center Transport and Interoffice Transmission Facilities

For Local Exchange Access Service, Inter-Wire Center Transport and Interoffice Transmission Facilities, with monthly recurring rates, 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 all associated monthly rates for the facility or service (including any monthly rated optional features associated with this transport facility or service) for each period of 30 minutes, or major fraction thereof, that the interruption continues, and as specified in Section 2.12.2F.

(D)

(D)

When Local Exchange Access Service, Inter-Wire Center Transport and Network Interconnection facilities experience an interruption of service, a credit applies to the facility itself as described above.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 2 - General Regulations

2.12 Credit Allowance for Service Interruptions (Cont'd)2.12.2 When a Credit Allowance Applies (Cont'd)H. Local Exchange Access Service (Cont'd)Multiplexing

The monthly charge 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. Video Service Maintenance Guarantee *

The Video Service Maintenance Guarantee provides a service credit of 100% of the monthly or daily rate, as applicable, for a service interruption of greater than one hour in duration.

The following Video Services are offered with the Video Service Maintenance Guarantee:

- Broadcast Video Service
- Digital Video Service
- Supertrunking Video Service
- Multichannel Video Service

The Video Service Maintenance Guarantee can only be applied once in any one monthly billing period, on a per circuit basis, or per leg affected basis for multipoint circuits. For daily rated services, the Video Service Maintenance Guarantee can only be applied once per daily billing period, on a per circuit basis, or per leg affected basis for multipoint circuits.

When a service, which rides a channel 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.

2.12.3 When a Credit Allowance Does Not Apply

No credit allowance will be made for:

- A. Interruptions caused by the negligence of the customer.
- B. Interruptions of a service due to the failure of equipment or systems provided by the customer or others.
- C. Interruptions of a service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.

* This regulation is limited to existing customers at existing locations as of April 1, 2004.

Section 2 - General Regulations

2.12 Credit Allowance for Service Interruptions (Cont'd)2.12.3 When a Credit Allowance Does Not Apply (Cont'd)

- D. Interruptions of a 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.
- E. 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 Section 10. 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.
- F. Periods when the customer elects not to release the service for testing and/or repair and continues to use it on an impaired basis.
- G. Periods of temporary discontinuance as set forth in Section 2.3, Refusal and Discontinuance of Service.
- H. Periods of interruption as set forth in Section 6.
- I. An interruption or a group of interruptions, resulting from a common cause, for amounts less than one dollar.
- J. Interruption of service caused by a customer's failure to provide notification to the Telephone Company of media stimulated mass calling events as set forth in Section 6.1.17 of Tariff FCC No. 11, Customer Requirements.
- K. DS1 service provided as free (unframed) format.

2.12.4 Use of an Alternative Service During a Service Interruption

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 tariffed rates and charges for the alternative service used.

2.12.5 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 1/1440 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.

Section 2 - General Regulations

2.13 Definitions

Certain terms used in this tariff are defined as follows:

900 Access Service Screening Office

The term "900 Access Service Screening Office" denotes an end office or access tandem that performs the customer identification function required to provide 900 Access Service to all customers.

Access Code

The term "Access Code" denotes a uniform seven digit code assigned by the Telephone Company to an individual customer. The seven digit code has the form 101XXXX and 950-XXXX.

Access Minutes

The term "Access Minutes" denotes that usage of exchange facilities in intrastate service for the purpose of calculating chargeable usage. On the originating end of an intrastate 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 intrastate 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 intrastate call shall terminate when the calling or called party disconnects, whichever event is recognized first in the originating exchanges, as applicable.

Access Tandem

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

Additional Listing

An additional listing is any listing, regardless of form, in addition to the primary listing.

Agent

The term "Agent" denotes that person or persons who have authority to allow the Telephone Company to place public telephones on their premises, who have the authority to presubscribe the public telephones on their premises as set forth in Section 15 following, and who make public telephones on their premises available for public use.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Alternate Billing Service (ABS)

The term "Alternate Billing Service" (ABS) denotes the processing and recording of all calls not Direct Distance Dialed (1+) and billed to an account other than the account associated with the originating line. ABS calls include Collect Calls and Third Number Billed Calls.

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.

Authorized Billing Agent

The term "Authorized Billing Agent" denotes a third party hired by a telecommunications service provider to perform billing and collection services for the telecommunications service provider.

B8ZS

The term "B8ZS" (Bipolar with 8 Zero Substitution) denotes a line code which allows transport of an all-zero octet over a DS1 1.544 Mbps High Capacity channel. B8ZS enables Clear Channel Capability on DS1 1.544 Mbps High Capacity service.

Billed Number Screening (BNS)

The term "Billed Number Screening" (BNS) denotes a service which utilizes a data base to determine specific characteristics and/or customer preferences on a billed line number. Examples would include whether or not the line is a public telephone and whether the billed customer associated with the line will accept a collect call.

Billing Name and Address

The term "Billing Name and Address" (BNA) denotes the name and address provided to the Telephone Company by each of its local exchange customers to, which the Telephone Company directs bills for its services.

Bit

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

Business Day

The term "Business Day" denotes the times of day that the Telephone Company is open for business. This is 8:00 A.M. to 5:00 P.M., Monday through Friday.

Section 2 - General Regulations

2.13 Definitions (Cont'd)

C Band

1525-1565 nanometers (unit of spatial measurement that is one billionth of a meter)

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.

Call-Out

A customer required dispatch outside of normal business hours when a technician is not available for dispatch.

Calling Party Number

The term "Calling Party Number" denotes the SS7 out of band signaling parameter which automatically transmits the ten-digit directory number, associated with a calling station, to the customer's premises.

Carrier Identification Code

The term "Carrier Identification Code" (CIC) denotes a numerical four digit code that identifies the end users' selected Interexchange Carrier.

Carrier Identification Parameter

The term "Carrier Identification Parameter" denotes the SS7 out of band signaling parameter, which identifies and transmits the CIC information to the customer's premises.

Carrier Selection Parameter

The term "Carrier Selection Parameter" denotes the SS7 out of band signaling parameter, which identifies whether the dialing end user accessed the customer's network through a presubscribed line or by dialing the customer's 101XXXX code.

(D)

(D)

Section 2 - General Regulations

2.13 Definitions (Cont'd)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).

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 an End User's Telephone Exchange Service when dialed on a local basis.

Centrex CO Service

The term "Centrex CO Service" denotes a service that uses a portion of a Telephone Company central office switch to meet the customer's internal needs. It serves as the customer's interface with the local and interexchange networks by linking the customer's main stations to the Telephone Company switch with subscriber loops.

Centrex CO-like Service

The term "Centrex CO-like Service" denotes a service, which operates in a manner, which is the same as Centrex CO, e.g., ESSEX, Centron, Centraflex, Airport Service, Hotel-Motel Service

Certified Local Exchange Carrier (CLEC)

The term "Certified Local Exchange Carrier" refers to a local exchange service provider, which has received a Certificate of Public Convenience and Necessity to provide local exchange services for specific modified Labor Market Areas in the State of Connecticut.

Channel(s)

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

Channel Service Unit

The term "Channel Service Unit" denotes 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.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Channelize

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

Charge Number

The term "Charge Number" denotes the SS7 out of band signaling parameter, which is equivalent to the ten-digit billing number of the calling station. The Charge Number is equivalent to the ANI available with MF signaling.

Circuit Code

The term "Circuit Code" is a numerical code that may be used to signify the type of call. The Circuit Code is analogous to the OZZ in MF signaling.

Clear Channel Capability (CCC)

The term "Clear Channel Capability" (CCC) denotes the transport of twenty-four 64 Kbps channels over a 1.544 Mbps Capacity Service via B8ZS line code.

Commingling⁽¹⁾

Commingling means the connecting, attaching or otherwise linking of an unbundled network element, or a combination of unbundled network elements, to one or more facilities or services that a requesting telecommunications carrier has obtained at wholesale from the Telephone Company, or the combining of an unbundled network element, or a combination of unbundled network elements with one or more such facilities or services. Commingle means the act of commingling.

⁽¹⁾ In the event the Commission or a court, pursuant to any regulatory or judicial review of the Commission's *Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, Report and Order and Order on Remand and Further Notice of Proposed Rulemaking, CC Docket No. 01-338, FCC 03-36, para. 581 (released Aug. 21, 2003) (*Triennial Review Order*), vacates, stays, remands, reconsiders, or rejects the portion of the Triennial Review Order requiring ILECs to permit commingling, the terms and conditions of this tariff authorizing commingling, which are identified with a footnote, shall cease to be effective as of the effective date of the Commission order or the issuance of the court's mandate. In that event, the Telephone Company will provide customers that have commingled UNE(s) and/or UNE Combination(s) with wholesale services obtained under this Tariff written notice that, within 30 days, customers must either convert such UNE(s) or UNE Combination(s) to a comparable service, or disconnect such UNE(s) and/or UNE Combination(s) from those wholesale services. Failure to provide the Telephone Company instructions to convert or disconnect such UNE(s) and/or UNE Combination(s) within 30 days, as described above, shall be deemed authorization to convert the UNE(s) and/or UNE Combination(s) to comparable access services at month-to-month rates.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Committed Information Rate (CIR)

A statistically guaranteed level of transmission or guaranteed bandwidth that the Ethernet network will provide to the Basic Connection when information (or data) needs to be transmitted.

Coin Station

See Public Telephone.

Common Channel Signaling Network (CCSN)

The term "Common Channel Signaling Network" (CCSN) denotes a specialized digital signaling network separate from the regular message (voice) network, which interconnects computerized switching systems and has access to special data bases.

Common Line

The term "Common Line" denotes a line, trunk, public 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.

Confirmed Service Date

The term "Confirmed Service Date" denotes the date on which work activity is scheduled to be completed by the Telephone Company and the service is ready for use by the customer. The Confirmed Service Date is provided by the Telephone Company to the customer.

Continuity

The term "Continuity" shall be defined as a single, uninterrupted path along a circuit from the Minimum Point of Entry (MPOE) or other demarcation point to the Point of Interface ("POI") located on the horizontal side of the Main Distribution Frame ("MDF").

Crossconnect Termination

An intra-building DS1, DS3, or 2 wire channel from the customer's Point of Termination (POT) to the Telephone Company DSX-1 panel, DSX-3 panel, or main distribution frame (MDF) and is provided out of the Expanded Interconnection section of this Tariff, Section 14.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Customer(s)

The term "Customer(s)" denotes any individual, partnership, association, joint-stock company, trust, corporation, governmental entity or other entity which subscribes to the services offered under this tariff and has received a Certificate of Public Convenience and Necessity from the Connecticut Department of Public Utility Control and has complied with all other applicable statutory and regulatory provisions.

Dedicated Signaling Transport (DST)

The term "Dedicated Signaling Transport (DST)" denotes the transport of out-of-band signaling information between the Telephone Company's CCSN and a customer's CCSN on facilities dedicated to the use of a single customer.

Detail Billing

The term "Detail Billing" denotes the listing of each message and/or rate element for which charges to a customer are due on a bill prepared by the Telephone Company.

Digital Service Crossconnect

The term "Digital Service Crossconnect" denotes a facility for circuit rearrangement, patching, and testing purposes. The DSX is designated DSX-N, where N represents the hierarchy of the digital network. For example, DSX-1 for DS1 signals and DSX-3 for DS3 signals.

Digital Subscriber Line (DSL)

The term "Digital Subscriber Line" (DSL) describes various technologies and services. The "x" in "xDSL" is a placeholder for the various types of DSL services.

Digital Subscriber Line Access Multiplexer (DSLAM)

The term "Digital Subscriber Line Access Multiplexer" (DSLAM) is defined as a piece of equipment that links end-user DSL connections to a single high-speed switch, typically ATM or IP.

Direct-Trunked Transport

The term "Direct-Trunked Transport" denotes a Switched Transport facility between a customer's serving wire center and an end office or DA location or Telephone Company access tandem on circuits dedicated to the use of a single customer.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Directory Assistance (Intrastate)

The term "Directory Assistance" denotes the provision of telephone numbers by a Telephone Company operator when the operator location is accessed by a customer by dialing 555-1212.

Directory Assistance Location

The term "Directory Assistance Location" denotes a Telephone Company office where Telephone Company equipment first receives the Directory Assistance call from a customer's premises and selects the first operator position to respond to the Directory Assistance call.

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. It may be utilized when Feature Group A is being used in the terminating direction (from the point of termination with the customer to the local exchange end 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.

E-911

Enhanced 911 Service provides for all end users serviced by a Public Safety Answering Point (PSAP), the capability of dialing the PSAP by means of an abbreviated dial code "9-1-1".

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.

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.

Section 2 - General Regulations

2.13 Definitions (Cont'd)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 trunks. Included are 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 an intrastate telecommunications service that is not a carrier. When a carrier or Certified Local Exchange Carrier uses a telecommunications service for administrative purposes they shall be deemed an end user. A person or entity that offers telecommunications services exclusively as a reseller shall be deemed to be an "end user" if all resale transmissions offered by such reseller originate on the premises of such reseller.

Entrance Facility

The term "Entrance Facility" denotes a Switched Transport dedicated facility between a customer premises and a customer's premises serving wire center that provides a customer with switched access transport between the customer's premises and its serving wire center.

Entry Switch

See First Point of Switching.

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 that area.

Ethernet Virtual Connection (EVC)

A logical connection between the customer demarcation point and the Ethernet network.

Exit Message

The term "Exit Message" denotes an SS7 message sent to an end office by the Telephone Company's tandem switch to mark the carrier connect time when the Telephone Company's tandem switch sends an initial address message to a customer.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Facilities

The term "Facilities", denotes any cable, poles, conduit, microwave or carrier equipment, wire center distribution frames, central office switching equipment, etc., utilized to provide intrastate services as offered under tariffs referenced in this tariff.

First-Come, First-Served

The term "First-Come, First-Served" denotes a procedure followed when the first service order received will be the first service order processed.

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 Switched Access service feature that provides additional values for the information indicator digits available with the Automatic Number Identification (ANI)/Charge Number feature on originating calls. These additional digits identify the type of line that is originating the call for billing, screening, and routing purposes.

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 tariff, and which are considered grandfathered under Part 68 of the F.C.C.'s Rules and Regulations.

Grandfathered Obsolete

The term "Grandfathered Obsolete" refers to existing services that may not be installed for new end users of the customer, and may not be moved to a new location for existing end users. However, based on the individual circumstances, the customer may add to the service for the existing end user at the existing end user location only, subject to the availability of facilities. Upon the Company's notification to the customer and the DPUC that the service is to be withdrawn, the customer may not change or add to the service.

Ground Start

The term "Ground Start" denotes a supervisory signal given at certain types of equipment by connecting one side of the line to ground.

Section 2 - General Regulations

2.13 Definitions (Cont'd)High Frequency Portion of the Loop (HFPL)

The term "High Frequency Portion of the Loop" (HFPL) is defined as the frequency above the voice band on a copper loop facility that is being used to carry traditional POTS analog circuit-switched voice band transmissions. The voice band frequency of the spectrum is 300 to 3,000 Hertz (possibly up to 3,400 Hertz) and provides that DSL technologies that operate at frequencies generally above 20,000 Hertz will not interfere with voice band transmission. The Telephone Company shall only make the HFPL available to a CLEC in those instances where the Local Exchange Company is also providing retail POTS (voice band circuit switched) service on the same local loop facility to the same end user.

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.

Individual Case Basis (ICB)

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 tariff are developed based on the circumstances in each case.

Initial Address Message

The term "Initial Address Message" denotes an SS7 message 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.

Integrated Services Digital Network

"Integrated Services Digital Network" (ISDN) is a switched network providing end to end digital connectivity for the simultaneous transmission of voice and data Basic Rate Interface-ISDN (BRI-ISDN) and provides for digital transmission of two 64 Kbps bearer channels and one 16 Kbps data channel (2B+D).

Section 2 - General Regulations

2.13 Definitions (Cont'd)Inter-Wire Center Transport

"Inter-Wire Center Transport" provides for the transmission facilities between serving wire centers (SWCs) associated with the port, loop, or multiplexing services and the location of the Certified Local Exchange Carrier's collocated space.

Interexchange Carrier (IC)

The term "Interexchange Carrier" (IC) denotes any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged for hire in the provision of interexchange communication services by wire or radio, between two or more exchanges.

Interexchange Communications Services

Communications services provided across exchange boundaries, or between extended local areas (exchange service areas), equivalent to long distance toll.

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.

L Band

1565-1605 nanometers (unit of spatial measurement that is one billionth of a meter).

Line Information Data Base (LIDB)

The term "Line Information Data Base" (LIDB) denotes a data base system that is designed to provide on-line call treatment information in response to a query from the CCS7 network.

Line Side

"Line Side" refers to a central office switch connection that has been programmed to treat the circuit as a local line connected to a telephone. Line side connections generally offer only those transmission and signaling features appropriate for a connection between a central office and an ordinary telephone.

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.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Local Access and Transport Area (LATA)

The term "Local Access and Transport Area" denotes a geographic area established for the provision and administration of communications service. It encompasses one or more designated exchanges, which are grouped to serve common social, economic and other purposes.

Local Service Area

The term "Local Service Area" denotes a geographical area, as defined in the Telephone Company's Local and/or General Exchange Service tariff, within which an end user (Telephone Exchange Service subscriber) may complete calls without incurring toll charges.

Local Service Provider

The term "Local Service Provider" refers to the local exchange carrier providing retail service directly to a Connecticut end user. The local service provider may or may not provide any physical network components in the provision of that end user's service.

Local Tandem Switch

The term "Local Tandem Switch" denotes a local Telephone Company switching unit by which local or access telephonic communications are switched to and from an End Office Switch.

Loop

The term "Loop" refers to a transmission path between the Minimum Point Of Presence (MPOP) at an end user location and the Main Distribution Frame (MDF) or Digital Crossconnect Bay (DSX-1) of the Telephone Company designated serving wire center.

Loop Start

The term "Loop Start" denotes a supervisory signal given by customer-provided equipment in response to completing the loop current path.

Main Distribution Frame

The term "Main Distribution Frame" (MDF) denotes the primary termination point for the outside plant (loop) and the line side of the switch (port) for the interconnection of elements to provide service.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Major Fraction Thereof

The term "Major Fraction Thereof" is any period of time in excess of 1/2 of the stated amount of time. As an example, in considering a period of 24 hours, a major fraction thereof would be any period of time in excess of 12 hours exactly. Therefore, if a given service is interrupted for a period of thirty six hours and fifteen minutes, the customer would be given a credit allowance for two twenty four-hour periods for a total of forty eight-hours.

Maritime Radio Common Carriers (MRCCs)

The term "Maritime Radio Common Carriers (MRCCs)" denotes carriers, which are regulated under Part 81 of the Federal Communications Commission's Rules and Regulations.

Media Access Control (MAC) Address

A data link layer protocol that defines how packets are transmitted on a local area network.

Media Stimulated Mass Calling Events

The term "Media Stimulated Mass Calling Events" denotes the use of Switched Access Service for calls to 800, 900, etc. telephone numbers in response to television and radio advertising for which a substantial call volume is anticipated during a short period of time. Media stimulated mass calling is highly peaked and often used in conjunction with call counting services for public opinion polls, marketing surveys, etc.

Message

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

Minimum Point of Presence

The term "Minimum Point of Presence" (MPOP) denotes the interface point at the customer's end user location.

Multicast Traffic

Ethernet frames that are forwarded to multiple destinations that are identified using a multicast group address.

Multiplex

The term "Multiplex" denotes the process or equipment for combining a number of individual channels into a common spectrum or into a common bit stream for transmission. Conversely, Multiplex also refers to the separation of a common spectrum or bit stream into individual channels.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Network Control Signaling

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

Network Service Provider

The term "Network Service Provider" refers to a local exchange carrier providing one or more physical network components of an end user's service. The network service provider may or may not also be the local service provider.

Non-Standard xDSL-Based Technology

The term "Non-Standard xDSL-Based Technology" is a loop technology that is not presumed acceptable for xDSL deployment as defined in this Tariff.

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.

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.

Operating Company Number

The term "Operating Company Number" denotes a four-character alphanumeric identifier used to determine the company of the NPA-NXX code-holders.

Originating Direction

The term "Originating Direction" denotes the use of Access Service for the origination of calls from an end user premises to a customer premises.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Originating Point Code (OPC)

The term "Originating Point Code" (OPC) is used to identify each Operator Service System (OSS) location used in the provisioning of LIDB Validation Service.

OZZ Code

The term "OZZ" is a numerical code that may be used to signify the type of call. The OZZ is used with MF Signaling.

Packet Delivery Rate (PDR)

Defined as the actual amount of useful and non-redundant information that is transmitted or processed from end-to-end across the Ethernet network. It is a function of bandwidth, error performance, congestion and other factors. PDR will be defined as a percentage of Ethernet frames offered to the network that successfully traverse the network, end-to-end, within the Committed Information Rate (CIR), and within a calendar month. Packet delivery is measured by averaging sample measurements taken during a calendar month from NTE to NTE to which the customer ports are attached.

Plain Old Telephone Service

The term "Plain Old Telephone Service" (POTS) denotes basic telephone service for the transmission of human speech.

Point of Termination

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

Port

The "Port" is the point of interface/access connection to the Telephone Company's public switched network. This may be a switch line side interface or switch trunk side interface.

Premises

The term "Premises" denotes a building, or a portion of a building in a multitenant building, or buildings on continuous property (except Railroad Right-of-Way, etc.) not separated by a public highway, except for a customer that offers Telecommunications Services exclusively as a reseller. This term is not to be limited to one building, but applies as well to a complex, or campus-type configuration of buildings.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Presumed Acceptable for Deployment

The term "Presumed Acceptable for Deployment" denotes; a loop technology that complies with existing industry standards; has been successfully deployed by another carrier in any state without significantly degrading the performance of other services; or has been approved by the FCC, any state commission, or an industry standards body.

Primary Listing

A "Primary Listing" for residence service is a single line entry in the white pages of the directory section, which serves the end user's location. A primary listing for business service includes a single line white page listing as described for residence service, as well as a single line yellow page listing in the same directory.

Prime Service Vendor

The term "Prime Service Vendor" denotes the status of the Telephone Company when contracting directly with the user of Telecommunications Service Priority TSP Service.

Public Telephone

The term "Public Telephone" denotes public payphones, both coin and coinless, that are available to the general public for public convenience. They are located in public or semipublic places where customers can originate telephone calls and pay the applicable charges.

Query

The term "Query" denotes a request for specific information generated by a computer processor and sent to an application, i.e., a database with a predefined set of responses expected.

Radio Common Carriers (RCCs)

The term "Radio Common Carriers (RCCs)" denotes carriers, which are regulated under Part 22 of the Federal Communications Commission's Rules and Regulations.

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 F.C.C.'s Rules and Regulations.

Release Message

The term "Release Message" denotes an SS7 message sent in either direction to indicate the release of a specific circuit.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Remote Switching Modules and/or Remote Switching Systems

The term "Remote Switching Modules and/or Remote Switching Systems" denotes small, 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 a customer.

Service Control Point

The term "Service Control Point" (SCP) denotes an SS7 network element whose function is to serve as a control interface between the SS7 network and one or more databases.

Service Management System (SMS)

The term "Service Management System" (SMS) denotes the main operations support system of the 800 Database Service network. It is used to create and maintain subscriber records that are downloaded to SCPs for use in processing subscriber calls.

Service Provider Local Number Portability

"Service Provider Local Number Portability" allows an end user to retain its telephone number when switching local exchange service to a Certified Local Exchange Carrier, while remaining in the same geographic area (i.e., wire center).

Service Switching Point (SSP)

The term "Service Switching Point" (SSP) denotes a switch in the Telephone Company's CCS7 network equipped with the ability to interact with a database using SS7 messages to obtain call routing information.

Serving Wire Center

The term "Serving Wire Center" denotes the wire center from which the customer designated premises would normally obtain dial tone from the Telephone Company.

Shared Network Arrangement

The term "Shared Network Arrangement" denotes a service offering whereby a Service User may connect subtending services to a Host Subscriber's multiplexed High Capacity Special Access service or Direct-Trunked Transport, and the Telephone Company will maintain separate customer records and billing.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Signal Transfer Point

The term "Signal Transfer Point" (STP) denotes a switch in the Telephone Company's CCS7 network, which provides access and performs message routing and screening.

Signaling System 7 (SS7)

The term "Signaling System 7 (SS7)" denotes the signaling protocol version used in the Common Channel Signaling Network.

Signaling for Tandem Switching

The term "Signaling for Tandem Switching" denotes the Carrier Identification Code (CIC) and the OZZ code on an MF signaling basis and the CIC and Circuit Code on an SS7 basis. This information is needed to perform tandem switching functions.

SNET SONET Network Service*

SNET SONET Network Service (SSNS) provides dedicated transport utilizing Synchronous Optical Network (SONET) transmission standards.

Splitter

The term "Splitter" is defined as a device that divides the data and voice signals concurrently moving across the loop, directing the voice traffic through copper tie cables to the switch and the data traffic through another pair of copper tie cables to multiplexing equipment for delivery to the packet-switched network. A Splitter may be directly integrated into the Digital Subscriber Line Access Multiplexer (DSLAM) equipment or may be externally mounted.

Storage Area Network

Network which links host computers, storage servers, and systems.

Subcontractor

The term "Subcontractor" denotes the status of the Telephone Company when contracting directly with a Prime Service Vendor to provide Telecommunications Service Priority (TSP) to a service user.

Subtending End Office of an Access Tandem

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

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Switching System

The term "Switching System" denotes the Telephone Company facilities, including hardware and/or software, which are used to perform switching functions within a central office, end office or tandem office.

Tandem-Switched Directory Transport

The term "Tandem-Switched Directory Transport" denotes a facility between the DA location and The Telephone Company SWC or a Telephone Company access tandem when usage is switched at the access tandem.

Tandem-Switched Transport

The term "Tandem-Switched Transport" denotes a Switched Transport facility between an end office and the Telephone Company access tandem that provides a customer with Switched Access Transport for usage that switches at the access tandem.

Tandem Switching Provider

The term "Tandem Switching Provider" (TSP) denotes any customer that receives Signaling for Tandem Switching from Telephone Company equal access end offices so that the customer may install their own tandems to provide tandem-switching services.

Telecommunications Relay Service (TRS)

The term "Telecommunications Relay Service (TRS)" denotes the process where end-user dialed calls are routed to a TRS Provider's Center for delivery to the Telephone Company. The Telephone Company in turn directs the call, via FGD Switched Access Service, to an access tandem for delivery to the selected Interexchange Carrier of choice.

Telecommunications Relay Service (TRS) Provider

The term "Telecommunications Relay Service (TRS) Provider" denotes the authorized provider of TRS in the state.

Telecommunications Service Provider

The term "Telecommunications Service Provider" denotes interexchange carriers, operator service providers, enhanced service providers, and any other provider of telecommunications services.

Terminating Direction

The term "Terminating Direction" denotes the use of Access Service for the completion of calls from a customer premises to an end user premises.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Termination Charge

The term "Termination Charge" denotes a charge that is applicable should a customer discontinue special construction or specialized service or arrangements, etc., prior to the expiration of its termination liability period. This charge is computed at the time of discontinuance and in no case will it ever exceed the maximum termination liability (charge), which was agreed to by the customer at the time the Special Construction or Specialized Services or Arrangements, etc. was undertaken.

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 channels consisting of any form or configuration of facilities 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 interchangeable trunks, which are traffic engineered as a unit to establish connections between switching systems.

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 in a two-wire entity (e.g., a central office switch).

Unicast Traffic

Ethernet frames forwarded from one station to another using the individual address.

Uniform Service Order Code (USOC)

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.

Section 2 - General Regulations

2.13 Definitions (Cont'd)Unknown Unicast Traffic

Ethernet frames that contain a destination address that has not been "learned" by the network equipment and is treated for an address with no dynamic filtering entry present.

V and H Coordinates Method

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.

Wire Center

The term "Wire Center" denotes a building in which one or more central offices, used for the provision of Telephone Exchange Services, are located.

xDSL Loop

An xDSL Loop refers to a 2-wire or 4-wire copper local loop transmission facility between a distribution frame (or its equivalent) in the Telco's central office and the loop demarcation point at an End-User premises, that may be conditioned at CLEC's request, in order for CLEC to provide xDSL-based services.

Zero Minus Transfer (0-)

The term "Zero Minus Transfer (0-)" denotes the transfer of an end user call to a specific IC by a Telephone Company operator.

900 Access Service Screening Office

The term "900 Access Service Screening Office" denotes an end office or access tandem that performs the customer identification function required to provide 900 Access Service to all customers.

xDSL Capable Loop

An xDSL Capable Loop is defined as a loop that a CLEC may use to deploy xDSL technologies.

Zero Minus Transfer (0-)

The term "Zero Minus Transfer (0-)" denotes the transfer of an end user call to a specific IC by a Telephone Company operator.

900 Access Service Screening Office

The term "900 Access Service Screening Office" denotes an end office or access tandem that performs the customer identification function required to provide 900 Access Service to all customers.

Section 3 - Ordering Regulations

3.1 General

This section sets forth the regulations and order related charges for ordering Access Service.

An Access Order is used to provide a customer with Access Service or to make changes to existing Access Services.

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

Available inventory is limited and does not include facilities previously ordered. The Telephone Company will make every reasonable effort to maintain sufficient available inventory to provide Access Service in accordance with a customer's requested service date intervals. To the extent that service can be provided, Access Orders will be satisfied from available inventory.

Except as provided below, the Telephone Company shall permit a requesting telecommunications carrier to commingle an unbundled network element or a combination of unbundled network elements with wholesale services obtained from the Telephone Company, to the extent provided by and subject to the terms and conditions of the requesting telecommunications carrier's interconnection agreement with the Telephone Company (or, if applicable, of the Telephone Company's intrastate tariffs). ⁽¹⁾

⁽¹⁾ In the event the Commission or a court, pursuant to any regulatory or judicial review of the Commission's *Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, Report and Order and Order on Remand and Further Notice of Proposed Rulemaking, CC Docket No. 01-338, FCC 03-36, para. 581 (released Aug. 21, 2003) (*Triennial Review Order*), vacates, stays, remands, reconsiders, or rejects the portion of the Triennial Review Order requiring ILECs to permit commingling, the terms and conditions of this tariff authorizing commingling, which are identified with a footnote, shall cease to be effective as of the effective date of the Commission order or the issuance of the court's mandate. In that event, the Telephone Company will provide customers that have commingled UNE(s) and/or UNE Combination(s) with wholesale services obtained under this Tariff written notice that, within 30 days, customers must either convert such UNE(s) or UNE Combination(s) to a comparable service, or disconnect such UNE(s) and/or UNE Combination(s) from those wholesale services. Failure to provide the Telephone Company instructions to convert or disconnect such UNE(s) and/or UNE Combination(s) within 30 days, as described above, shall be deemed authorization to convert the UNE(s) and/or UNE Combination(s) to comparable access services at month-to-month rates.

Section 3 - Ordering Regulations

3.1 General (Cont'd)

The Telephone Company need not provide access to (1) an unbundled DS1 loop in combination, or commingled, with a dedicated DS1 transport or dedicated DS3 transport facility or service, or to an unbundled DS3 loop in combination, or commingled, with a dedicated DS3 transport facility or service, or (2) an unbundled dedicated DS1 transport facility in combination, or commingled, with an unbundled DS1 loop or a DS1 channel termination service, or to an unbundled dedicated DS3 transport facility in combination, or commingled, with an unbundled DS1 loop or a DS1 channel termination service, or to an unbundled DS3 loop or a DS3 channel termination service, unless the requesting telecommunications carrier certifies that all of the following conditions are met⁽¹⁾

- (1) The requesting telecommunications carrier has received state certification to provide local voice service in the area being served or, in the absence of a state certification requirement, has complied with registration, tariffing, filing fee, or other regulatory requirements applicable to the provision of local voice service in that area.
- (2) The following criteria are satisfied for each combined circuit, including each DS1 circuit, each DS1 combined circuit, and each DS1 equivalent circuit on a DS3 facility:
 - (i) Each circuit to be provided to each end user customer will be assigned a local number prior to the provision of service over that circuit;
 - (ii) Each DS1-equivalent circuit on a DS3 facility must have its own local number assignment, so that each DS3 must have at least 28 local voice numbers assigned to it;
 - (iii) Each circuit to be provided to each end user customer will have 911 or E911 capability prior to the provision of service over that circuit;
 - (iv) Each circuit to be provided to each end user customer will terminate in a collocation arrangement that meets the requirements detailed below;

⁽¹⁾ In the event the Commission or a court, pursuant to any regulatory or judicial review of the Commission's *Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, Report and Order and Order on Remand and Further Notice of Proposed Rulemaking, CC Docket No. 01-338, FCC 03-36, para. 581 (released Aug. 21, 2003) (*Triennial Review Order*), vacates, stays, remands, reconsiders, or rejects the portion of the Triennial Review Order requiring ILECs to permit commingling, the terms and conditions of this tariff authorizing commingling, which are identified with a footnote, shall cease to be effective as of the effective date of the Commission order or the issuance of the court's mandate. In that event, the Telephone Company will provide customers that have commingled UNE(s) and/or UNE Combination(s) with wholesale services obtained under this Tariff written notice that, within 30 days, customers must either convert such UNE(s) or UNE Combination(s) to a comparable service, or disconnect such UNE(s) and/or UNE Combination(s) from those wholesale services. Failure to provide the Telephone Company instructions to convert or disconnect such UNE(s) and/or UNE Combination(s) within 30 days, as described above, shall be deemed authorization to convert the UNE(s) and/or UNE Combination(s) to comparable access services at month-to-month rates.

Section 3 - Ordering Regulations

3.1 General (Cont'd)

(2) (Continued)

(v) Each circuit to be provided to each end user customer will be served by an interconnection trunk that meets the requirements detailed below;

(vi) For each 24 DS1 combined circuits or other facilities having equivalent capacity, the requesting telecommunications carrier will have at least one active DS1 local service interconnection trunk that meets the requirements detailed below; and

(vii) Each circuit to be provided to each end user customer will be served by a switch capable of switching local voice traffic.

A collocation arrangement meets the requirements in (iv) above if it is:

(1) Established pursuant to section 251(c)(6) of the Act and located at the Telephone Company's premises within the same LATA as the customer's premises, when the Telephone Company is not the collocater; and

(2) Located at a third party's premises within the same LATA as the customer's premises, when the Telephone Company is the collocater.

An interconnection trunk meets the requirements of (v) and (vi) above in this certification if the requesting telecommunications carrier will transmit the calling party's number in connection with calls exchanged over the trunk and the trunk is located in the same LATA as the customer premises served by the DS1 circuit.⁽¹⁾

⁽¹⁾ In the event the Commission or a court, pursuant to any regulatory or judicial review of the Commission's *Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, Report and Order and Order on Remand and Further Notice of Proposed Rulemaking, CC Docket No. 01-338, FCC 03-36, para. 581 (released Aug. 21, 2003) (*Triennial Review Order*), vacates, stays, remands, reconsiders, or rejects the portion of the Triennial Review Order requiring ILECs to permit commingling, the terms and conditions of this tariff authorizing commingling, which are identified with a footnote, shall cease to be effective as of the effective date of the Commission order or the issuance of the court's mandate. In that event, the Telephone Company will provide customers that have commingled UNE(s) and/or UNE Combination(s) with wholesale services obtained under this Tariff written notice that, within 30 days, customers must either convert such UNE(s) or UNE Combination(s) to a comparable service, or disconnect such UNE(s) and/or UNE Combination(s) from those wholesale services. Failure to provide the Telephone Company instructions to convert or disconnect such UNE(s) and/or UNE Combination(s) within 30 days, as described above, shall be deemed authorization to convert the UNE(s) and/or UNE Combination(s) to comparable access services at month-to-month rates.

Section 3 - Ordering Regulations

3.2 Provision of Basic Customer Information

The customer shall furnish all information necessary for the Telephone Company to provide and bill for the requested service. In addition to the service-specific ordering information set forth in Section 3.6, the customer shall provide:

- A. The customer or End User name(s) and premises address(es) where service(s) will be terminated.
- B. The billing name and address (when different from the customer name and address), and
- C. The customer contact name(s) and telephone number(s) for the following provisioning activities:
 - order negotiation and confirmation,
 - interactive design,
 - installation and
 - billing.

Section 3 - Ordering Regulations

3.3 Access Order Service Date Intervals

The date on which the Telephone Company receives a firm order commitment from the customer and sufficient information to allow processing of an Access Order is referred to as the Application Date, or Order Date. The customer is advised of the Application Date at the time the Telephone Company gives the customer a firm order confirmation.

To the extent that the requested Access Service can be made available with reasonable effort, the Telephone Company will provide the service in accordance with the customer's requested interval or requested service date.

The time required to provision the service (i.e., the interval between the Application Date and the Service Date) is known as the service interval and is established by the Telephone Company.

Schedules that specify installation intervals will also specify the services and quantities of the services that can be provided as specified in Sections 3.3.1(b) and (c). The Telephone Company will adhere to the intervals as specified in Section 3.4.2(a) except during circumstances beyond its direct control (i.e., acts of God, governmental requirements, work stoppages and civil commotions). Standard Intervals only apply when facilities and equipment are available.

Access Services will be installed during Telephone Company business days. If a customer requests that installation be done outside of normally scheduled work hours, and the Telephone Company agrees to this request, the customer will be subject to applicable charges described in Section 6.7 (Additional Labor).

3.3.1 Negotiated Interval

The Telephone Company will negotiate a service date interval with the Customer when:

- (a) There is no standard interval for the service, or
- (b) The quantity of Access Services ordered exceeds the quantities specified in Section 3.4.2 (1)(a), or
- (c) The customer requests a service date beyond the applicable standard interval service date.

Standard Intervals	
Analog/Voice Grade/DSO	10 days
DS1	7 days*
DS3	7 days*
OC3/OC12	7 days*

The Telephone Company will offer a service date based on the type and quantity of Access Services the customer has requested. The negotiated interval may not exceed by more than six months the standard interval Service date, or, when there is no standard interval, the Telephone Company offered service date.

* Interval only applied where facilities and equipment exist. When facilities and equipment do not exist the interval is dependent upon the complete installation of new facilities and equipment.

Section 3 - Ordering Regulations

3.4 Access Order Modifications

The customer may request a modification of an access order at any time prior to notification by the Telephone Company that service is available for the customer's use. 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 order modification, the Telephone Company will schedule a new service date. All charges for access order modifications will apply on a per order, per occurrence basis.

Any increase in the number of Special Access Service channels or Switched Access Service lines, trunks, capacity, Directory Transport facilities, or STP

Port Terminations will be treated as a new Access Order. The new order is 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.

An order modification charge will apply on a per order per occurrence basis for each access order modified. The applicable charge is:

	<u>Charge</u>
Order Modification Charge per Order	\$31.88

3.4.1 Service Date Change Charge

Access Order service dates for the installation of new services or rearrangements of existing services may be changed, but the new service date may not exceed the original service date by more than 30 calendar days. When, for any reason, the customer cannot accept the service for a period not to exceed 30 calendar days, and the Telephone Company delays the start of service accordingly, a Service Date Change Charge will apply. If the customer requested service date is more than 30 calendar days after the original service date, the order will be cancelled by the Telephone Company and reissued with the appropriate cancellation charges applied. However, for Special Access, the customer may indicate that the Telephone Company may start billing for the service on the 31st day beyond the original service date of the Access Order.

Section 3 - Ordering Regulations

3.4 Access Order Modifications3.4.1 Service Date Change Charge (Cont'd)

A new service date may be established that is prior to the original service date if the Telephone Company determines it can accommodate the customer's request without delaying service dates for orders of other customers. 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 Section 3.4.2 will 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. A Service Date Change Dispatch Charge will apply per occurrence when a technician is dispatched to the customer's premises the customer is not ready for service. The applicable charge is:

The applicable charge is:

	<u>Charge</u>
Service Date Change Charge	\$26.50
Per Order	

Service Date Change Dispatch
Charge per Occurrence

Per Order The applicable charge is: \$200.00

Failure to notify, as noted below, the Telephone Company prior to the original service date to request a different service date will result in the application of a Service Date Change Dispatch Charge for installation, moves and rearrangement of services. If a Telephone Company technician is dispatched to the customer's premises on the scheduled service date and the customer is not ready to accept service or the customer has failed to notify the Telephone Company before 3:00PM (ET) on the business day prior to the scheduled service date that the service date needs to be changed, a Service Date Change Dispatch Charge will apply.

If the customer reschedules the service date, a Service Date Change Charge, as set forth following will also apply. If the customer cancels the service date, cancellation charges will also apply in accordance with terms and conditions for cancellation charges as set forth in 5.5 following. Cancellation of the order will not preclude the application of the Service Date Change Charge and/or the Service Date Change Dispatch Charge assessed for prior occurrences on the same order.

Section 3 - Ordering Regulations

3.4 Access Order Modifications3.4.2 Expedited Order Charge

- (1) Analog (Voice Grade), DSO (Digital Data), Entrance Facilities (Voice Grade, DS1, DS3) and High Capacity (DS1, DS3) Access Services, OC-3 and OC-12 Point-to-Point Services.

If a customer desires that service be provided on a due date earlier than the standard interval, the customer may request that service be provided on an expedited service interval. To qualify for an expedited interval the customer may provide End User premises access, where needed, until 11PM (EST), Monday-Friday.

When the customer requests a 0-2 day expedite interval on DS3, Analog (Metallic, Telegraph, Direct Analog, Wideband Analog), DSO (Wideband Data, Base Rate), DS1 128, 256, 384, 512 768 Kbps, Entrance Facilities (Voice Grade, DS1, DS3) and DS1/DS3 Access Service, the request must be received by the Company by 8:30 AM (EST), Monday-Friday. All 0-2 expedite interval requests received after 8:30 AM (EST) will reflect an application date of the next business date and the due date will also be pushed out by one business day. Expedite charges will be based on the interval between the application date and the due date.

On OC3/OC-12 services, when a customer requests a 4, 5, or 6 day expedite, the request must be received by the Company no later than 8:30 AM (EST), Monday-Friday. If received after 8:30AM the order will reflect an application date of the next business date and the due date will also be changed to the next business day. Expedite charges will be based on the interval between the application date and the due date.

If, upon reviewing availability of equipment, facilities and scheduled workload, the Company agrees to provide service on an expedited basis and the customer accepts this proposal, an Expedite Order Charge (in the case of Analog, DSO, Voice Grade/DS1 Entrance Facilities and High Capacity DS1 Access Services) or Expedite Circuit Charge (in the case of DS3 Entrance Facilities and High Capacity DS3 Access Services, OC-3 and OC-12 Point-to-Point Services) will apply.

The maximum number of circuits that may be expedited is limited to twelve (12) two-point or six (6) multi-point Analog/DSO circuits at the same location; a limit of nine (9) DS1 circuits at the same location; and a limit of two (2) DS3 circuit at the same location, a limit of one (1) OC-3 point-to-point circuit at the same location. When the number of access circuits exceeds the maximum threshold the service interval will be negotiated.

If the Telephone Company determines that service can be provided on an expedited basis, the following charges will apply based on the agreed upon expedited service interval. The Expedited Order Charge (in the case of Analog, DSO, Voice Grade/DS1 Entrance Facilities and High Capacity DS1 Access Services) applies on a per order basis, regardless of the number of circuits on the order. The Expedited Circuit Charge (in the case of DS3 Entrance Facilities, High Capacity DS3 Access Services, OC-3 and OC-12 Point-to-Point Services) applies on a per circuit basis.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 3-9

Section 3 - Ordering Regulations

3.4.2 Expedited Order Charge (Cont'd)

Analog (Voice Grade), DSO (Digital Data), Entrance Facilities (Voice Grade, DS1, DS3) and High Capacity (DS1, DS3) Access Services, OC-3 and OC-12 Point-to-Point Services (Cont'd)

Analog/Voice Grade/DSO Access Service	
Expedited Service Intervals	Expedite Order Charge
9 days	\$375.00
8 days	\$425.00
7 days	\$475.00
6 days	\$525.00
5 days	\$575.00
4 days	\$625.00
3 days	\$675.00
2 days	\$1,500.00
1 day	\$2,000.00
0 days	\$2,500.00
DS1 Access Service	
Expedited Service Intervals	Expedite Order Charge
6 days	\$525.00
5 days	\$575.00
4 days	\$625.00
3 days	\$675.00
2 days	\$1,500.00
1 day	\$2,000.00
0 days	\$2,500.00
High Capacity DS3 Access Service	
Expedited Service Intervals	Expedite Circuit Charge
6 days	\$1,500.00
5 days	\$2,000.00
4 days	\$2,500.00
3 days	\$3,000.00
2 days	\$3,500.00
1 day	\$4,000.00
0 days	\$4,500.00
OC-3 Point-to-Point Services	
Expedited Service Intervals	Expedite Order Charge
6 days	\$1,900.00
5 days	\$2,500.00
4 days	\$3,200.00
OC-12 Point-to-Point Services	
Expedited Service Intervals	Expedite Order Charge
6 days	\$2,400.00
5 days	\$3,200.00
4 days	\$4,500.00

Section 3 - Ordering Regulations

3.4.2 Expedited Order Charge (Cont'd)(1) Analog (Voice Grade), DSO (Digital Data), Entrance Facilities (Voice Grade, DS1, DS3) and High Capacity (DS1, DS3) Access Services (Cont'd)

- (a) In addition to Expedited Order Charges or Expedited Circuit Charges, special construction charges may apply, if the Telephone Company determines that additional cost will be incurred.
- (b) If the Telephone Company is subsequently unable to meet an agreed upon expedited service date, no Expedite Order Charge or Expedite Circuit Charge will apply, unless the missed service date was caused by the customer.
- (c) The Telephone Company will adhere to the expedite intervals as specified above, except during circumstances beyond its direct control (i.e., acts of God, governmental requirements, work stoppages and civil commotions).
- (d) When the request for expediting occurs subsequent to the issuance of the Access Order, a Service Date Change Charge as specified in Section 3.4.1 preceding, also applies.
- (e) If an expedited service date is missed due to the customer not being ready for service, then the Expedite Order Charge or Expedite Circuit Charge will apply. In this instance, the Service Date Charge and Dispatch Charge may also apply. If the customer, subsequently requests expedite service for the same circuit or order (prior to service installation), then an Additional Expedited Order Charge or Additional Expedited Circuit Charge will also apply.

(2) For all Access Services, excluding Analog (Voice Grade), DSO (Digital Data), Entrance Facilities (Voice Grade, DS1 DS3) and High Capacity (DS1, DS3) Access Services

If the customer desires that service be provided on an earlier date than that which has been established for the Access Order or the provision of the Access Service, the customer may request that service be provided on an expedited basis. If the Telephone Company determines that service can be provided on the requested date and that additional labor costs or extraordinary costs are required to meet the requested service date, the customer will be notified and will be provided with an estimate of the additional charges involved. The total charge to the customer for the additional engineering may not exceed the estimated amount by more than 10%. If the customer instructs the Telephone Company to proceed, such additional charges will be billed to the customer as follows:

To calculate the additional labor charges, the Telephone Company, will, upon authorization from the customer to incur the additional labor charges, keep track of the additional labor charges used to meet the request of the customer and will bill the applicable labor charges as set forth in Section 6.7.

Section 3 - Ordering Regulations

3.4 Access Order Modifications (Cont'd)3.4.2 Expedited Order Charge (Cont'd)

- (2) For all Access Services, excluding Analog (Voice Grade), DSO (Digital Data), Entrance Facilities (Voice Grade, DS1 DS3) and High Capacity (DS1, DS3) Access Services (Cont'd)
- (a) **Extraordinary Costs:** The special construction terms and conditions specified in Frontier Telephone Companies Tariff FCC No. 7 will be used by the Telephone Company to determine charges to recover the extraordinary costs which may be involved. Authorization to incur the costs and to bill the customer will be in accordance with the terms and conditions of Frontier Telephone Companies Tariff FCC No. 7.
 - (b) When the request for expediting occurs subsequent to the issuance of the Access Order, a Service Date Change Charge as set forth in Section 3.4.1 preceding, also applies.
 - (c) If the Telephone Company is subsequently unable to meet an agreed upon expedited service date, no Expedite Order Charge or Expedite Circuit Charge will apply, unless the missed service date was caused by the customer.
 - (d) The Telephone Company will adhere to the expedite intervals as specified above, except during circumstances beyond its direct control (i.e., acts of God, governmental requirements, work stoppages and civil commotions)

3.4.3 Design Change Charge

The Telephone Company will review the requested change, notify the customer whether the change constitutes 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 on a per order, per occurrence basis, for each order requiring a design change.

If a change of service date is required, the Service Date Change Charge as set forth in Section 3.4.1 preceding will also apply.

- A. Design changes include such things as the addition or deletion of optional features or functions or a change in the type of Transport Termination (Switched Access only), type of channel interface, type of Interface Group or technical specification package. The Design Change Charge applies on a per order, per occurrence basis for each design change, as follows:

	<u>Charge</u>
Design Change Charge	\$37.07

- B. Design changes do not include a change of customer premises, end user premises, end office switch, Switched Transport Feature Group type, or Switched Transport capacity or Special Access Service channel type or SNET SONET Network Service* OCN level. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate cancellation charges applied.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 3 - Ordering Regulations

- 3.5 Cancellation of an Access Order (for the following Special Access Services: Optical Carrier Network (OCN) Point-to-Point Service, 1G Dedicated Ethernet², Basic Switched Ethernet Service², Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)¹ (D)
(D)
(T)

Cancellation charges are applicable when (1) a customer cancels 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, and (2) a customer requests a decrease in the number of ordered Special Access Service channels Switched Access (as applicable in this section) Service lines, trunks, capacity, Directory Transport capacity, or STP Port Terminations. The latter will be treated as a partial cancellation.

3.5.1 Cancellation Date

The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the order is to be cancelled. A 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 within 30 calendar days after the original service date, the customer has the choice of the following options:

- canceling the Access Order with the application of cancellation charges, or
- for Special Access Service (as applicable in this section), have billing for the service commence on the 31st day beyond the original service date of the Access Order.

3.5.2 Cancellation Charge

When a customer cancels an Access Order for the installation of service, a Cancellation Charge will apply as follows:

- A. Installation of Switched or Special Access Service (as applicable in this section) facilities is considered to have started when the Telephone Company incurs any cost in connection therewith or in preparation thereof which would not otherwise have been incurred.
- B. Where the customer cancels an Access Order prior to the start of installation of access facilities, no charges shall apply.
- C. Where installation of access facilities has been started prior to the cancellation, the charges specified in (1) or (2) following, whichever is lower, shall apply.
 - (1) A charge equal to the costs incurred in such installation, less net salvage. Such charge is determined as detailed in D. following.
 - (2) The charge for the minimum period of Switched or Special Access Service (as applicable in this section) ordered by the customer.

¹ MON Ring Service is Grandfathered Obsolete effective December 1, 2012. (T)
² 1G Dedicated Ethernet and Basic Switched Ethernet Service are grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date. (N)
(N)

Section 3 - Ordering Regulations

3.5 Cancellation of an Access Order (Cont'd)3.5.2 Cancellation Charge (Cont'd)

D. Charges applicable as specified in C. (1) preceding include the non-recoverable cost of equipment and material ordered, provided or used, plus the non-recoverable cost of installation and removal including the costs of engineering, labor, supervision, transportation, rights-of-way and other associated costs.

E. When a customer cancels an order for the discontinuance of service, no charges apply for the cancellation.

F. If the Telephone Company misses a service date by more than 30 days except due to circumstances such as acts of God, governmental requirements, work stoppages and civil commotions, the customer may cancel the Access Order without incurring cancellation charges.

3.5.3 Cancellation of an Access Order (for the following Special Access Services: Optical Carrier Network (OCN) Point-to-Point Service, 1G Dedicated Ethernet², Basic Switched Ethernet Service², Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)¹

(D)
(D)
(T)

Cancellation charges are applied based upon the type of special access service being cancelled which is categorized as either, 1) "point to point" service or 2) "non-point to point" service. However, at no time will cancellation charges apply until costs for installation of facilities have been incurred by the Telephone Company. Service installation costs incurred by the Telephone Company start on the application date, when the Telephone Company confirms the order with the customer.

Cancellation charges for "point to point" services are based upon the date that a customer cancels an Access Order with respect to the Design Layout Report Date (DLRD), of the service being provisioned, as described in Section 3.5.3(B)(2) following. The DLRD is the date the Design Layout Report is forwarded to the customer. The DLRD is provided to the customer upon firm order confirmation.

The table below defines the product categories for "point to point" services pertaining to this section:

"Point-to-Point" Services	
Service	Product Category/Type
OC-3 Optical Carrier Network-Point to Point Service	OC-3
OC-12 Optical Carrier Network-Point to Point Service	OC-12
OC-48 Optical Carrier Network-Point to Point Service	OC-48
OC-192 Optical Carrier Network-Point to Point Service	OC-192
1G Dedicated Ethernet ²	1Gig-E

(D)

¹ MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

(T)

² 1G Dedicated Ethernet and Basic Switched Ethernet Service are grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)

(N)

Section 3 - Ordering Regulations

3.5 Cancellation of an Access Order (Cont'd)

3.5.3 Cancellation of an Access Order (for the following Special Access Services:
Optical Carrier Network (OCN) Point-to-Point Service, 1G Dedicated Ethernet (D)
², Basic Switched Ethernet Service ², Multi-service Optical Network (MON) Ring (D)
Service (Grandfathered Obsolete)¹ (Cont'd) (T)

Cancellation charges for "non-point to point" services are applied based on actual costs incurred by the Telephone Company as described in Section 3.5.3(A) (2) and 3.5.3(B) (3) (b) following. The table below lists the "non-point to point" services pertaining to this section:

"Non-Point to Point" Services
Optical Ethernet Metropolitan Area Network
Multi-service Optical Network Ring Service

(A) Cancellation of a letter of agreement

- (1) When facilities must be constructed prior to the Telephone Company receipt of an Access Order where facility assignment is not yet available, due to lack of spare capacity), excluding special construction as described in Tariff F.C.C. No. 7, the customer will be required to submit a written letter of agreement to the Telephone Company which includes a maximum estimate as previously provided by the Telephone Company of the cancellation charges as defined at 5.5.1(A) (2). A customer may cancel a written letter of agreement. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the letter of agreement is to be cancelled. If verbal notice is given, it must be followed by written confirmation within 10 days or it shall be deemed to be void.

If a customer does not place an Access Order for the services within 30 days of receiving notification that the network is ready for the services ordered, the letter of agreement will be deemed cancelled.

¹ MON Ring Service is Grandfathered Obsolete effective December 1, 2012. (T)

² 1G Dedicated Ethernet and Basic Switched Ethernet Service are grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date. (N)
(N)

Section 3 - Ordering Regulations

3.5 Cancellation of an Access Order (Cont'd)

3.5.3 Cancellation of an Access Order (for the following Special Access Services:
Optical Carrier Network (OCN) Point-to-Point Service, 1G Dedicated Ethernet
2, Basic Switched Ethernet Service 2, Multi-service Optical Network (MON) Ring
Service (Grandfathered Obsolete)¹ (Cont'd)

(D)

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(A) Cancellation of a letter of agreement (Cont'd)

(2) When a customer cancels a letter of agreement, cancellation charges will apply as follows:

(a) Installation of facilities is considered to have started when the Telephone Company incurs any cost in connection therewith or on preparation thereof which would not otherwise have been incurred.

(b) Where an Access Order has been issued, cancellation charges shall apply as indicated in Section 3.5.3(B) following.

(c) Applicable letter of agreement cancellation charges will be calculated from the costs incurred by the Telephone Company at the time the letter of agreement is cancelled. The cancellation charge equals:

- (i) Non-recoverable cost of equipment and material ordered, provided or used, and
- (ii) Non-recoverable cost of installation and removal including the cost of engineering, labor, supervision, transportation, rights-of-way and other associated costs.
- (iii) Less previously collected special construction charges, if applicable.

¹ MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

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² 1G Dedicated Ethernet and Basic Switched Ethernet Service are grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)

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Section 3 - Ordering Regulations

3.5 Cancellation of an Access Order (Cont'd)

3.5.3 Cancellation of an Access Order (for the following Special Access Services:
Optical Carrier Network (OCN) Point-to-Point Service, 1G Dedicated Ethernet
², Basic Switched Ethernet Service ², Multi-service Optical Network (MON) Ring
Service (Grandfathered Obsolete)¹ (Cont'd)

(D)

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(B) Cancellation of Access Order

- (1) A customer may cancel an Access Order for installation of service. The Access Order must be cancelled at least one (1) day before the service date.

The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the order is to be cancelled. If verbal notice is given, it must be followed by written confirmation within 10 days or it shall be deemed to be void.

If a customer or customer's end user is unable to accept Access Service and the new service date requested is beyond 30 calendar days of the original service date, the customer has the choice of the following options:

- (a) The Access Order shall be canceled, and charges specified in 3.5.3(B)(2) following will apply, or
- (b) Service shall be accepted, and billing for the service will commence.

In such instances, the cancellation date or the billing date, depending on which option is selected by the customer, shall be the 31st day beyond the original service date of the Access Order. If the customer does not select one of the options, the Telephone Company will begin billing for the service on the 31st day beyond the original service date of the Access Order.

¹ MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

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² 1G Dedicated Ethernet and Basic Switched Ethernet Service are grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)

(N)

Section 3 - Ordering Regulations

3.5 Cancellation of an Access Order (Cont'd)

3.5.3 Cancellation of an Access Order (for the following Special Access Services:
Optical Carrier Network (OCN) Point-to-Point Service, 1G Dedicated Ethernet
2, Basic Switched Ethernet Service 2, Multi-service Optical Network (MON) Ring
Service (Grandfathered Obsolete)¹ (Cont'd)

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(B) Cancellation of Access Order (Cont'd)(2) When Cancellation Charges Apply

When a customer cancels an Access Order (or a part of an order) after it has been issued, but before notification by the Telephone Company that the service is available for use, cancellation charges will apply, even when nonrecurring installation charges would be waived, as follows:

- (a) When a "point to point" special access service is cancelled on or before the Design Layout Report Date (DLRD), a cancellation charge will apply on a per circuit basis as shown in Table A in Section 3.5.3(B) (3) (a).
- (b) When a lower-speed "point to point" service (e.g., OC-3c OCN Point-to-Point Service) with a Connecting Facility Assignment (CFA) of a higher-speed "point to point" or "non-point to point" service (e.g., OC-12 OCN Point-to-Point Service) is cancelled, and a cancelled service has no channel termination or local distribution channel, a cancellation charge will apply on a per circuit basis as shown in Table A in Section 3.5.3(B) (3) (a).
- (c) When a "point to point" service is cancelled after the Design Layout Report Date (DLRD), a cancellation charge will apply on a per circuit basis as shown in Table B, following.

¹ MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

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² 1G Dedicated Ethernet and Basic Switched Ethernet Service are grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 3 - Ordering Regulations

3.5 Cancellation of an Access Order (Cont'd)

3.5.3 Cancellation of an Access Order (for the following Special Access Services:
Optical Carrier Network (OCN) Point-to-Point Service, 1G Dedicated Ethernet
², Basic Switched Ethernet Service ², Multi-service Optical Network (MON) Ring
Service (Grandfathered Obsolete)¹ (Cont'd)

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(B) Cancellation of Access Order (Cont'd)(3) Cancellation Charges(a) Point-to-point Services:

TABLE A Cancellation Charge	
Product Category/Type	Cancellation Charge (Per Circuit)
OC-3	\$600.00
OC-12	\$800.00
OC-48	\$1,200.00
OC-192	\$2,500.00
1Gig-E	\$800.00

(D)

TABLE B Cancellation Charge	
Product Category/Type	Cancellation Charge (Per Circuit)
OC-3	\$2,900.00
OC-12	\$3,100.00
OC-48	\$3,700.00
OC-192	\$4,000.00
1G Dedicated Ethernet ²	\$3,200.00

(D)

(b) Non-point-to-point services:

Applicable charges will be calculated from the costs incurred by the Telephone Company at the time the Access Order is cancelled. The Cancellation Charge equals:

- (i) Non-recoverable cost of equipment and material ordered, provided or used, and
- (ii) Non-recoverable cost of installation and removal including the cost of engineering, labor, supervision, transportation, rights-of-way and other associated

¹ MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

² 1G Dedicated Ethernet and Basic Switched Ethernet Service are grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 3 - Ordering Regulations

3.5 Cancellation of an Access Order (Cont'd)

3.5.3 Cancellation of an Access Order (for the following Special Access Services:
Optical Carrier Network (OCN) Point-to-Point Service, 1G Dedicated Ethernet (D)
², Basic Switched Ethernet Service ², Multi-service Optical Network (MON) Ring (D)
Service (Grandfathered Obsolete)¹ (Cont'd) (T)

(B) Cancellation of Access Order (Cont'd)

(4) When Cancellation Charges Do Not Apply

- (a) When a customer cancels an order for the termination of existing service.
- (b) If the Telephone Company misses a service date by more than 30 days, the customer may cancel the Access Order without incurring cancellation charges.
- (c) Where the customer cancels a letter of agreement prior to the start of installation of access facilities, no charges shall apply.
- (d) Network reconfiguration order.

¹ MON Ring Service is Grandfathered Obsolete effective December 1, 2012. (T)

² 1G Dedicated Ethernet and Basic Switched Ethernet Service are grandfathered as of (N)
January 1, 2019. No add, moves or changes will be allowed after this date. (N)

Section 3 - Ordering Regulations

3.6 Service-Specific Ordering Information

If a PIU is required, the customer must provide its PIU when placing an order for Access Services in accordance with Section 2.7.2 of this tariff.

3.6.1 Switched Access Service

When placing an order for Access Service, the customer shall provide, at a minimum, the following information:

A. Switched Transport and Directory Transport Services

When the customer orders Switched Transport or Directory Transport, the customer may designate one line side or trunk side Switched Access Service or trunk side Directory Assistance Access Service as specified in 3.6.1 B, C, D and 3.6.3, that will use the transport facility. When the customer orders Switched Transport or Directory Transport and specifies that the facility is to be interconnected to another transport facility, the customer must specify compatible channel interfaces.

The minimum information required to order Switched Transport or Directory Transport is set forth in (1) through (3) following. Such information is in addition to the information required to order line side or trunk side Switched Access or Directory Transport as specified in 3.6.1 B, C, D and 3.6.3, as applicable.

(1) Entrance Facility

- (a) The customer premises.
- (b) The connection type (Voice Grade, DS1 or DS3).
- (c) The Switched Transport optional features, if desired including multiplexing).
- (d) Multiplexing is required if the Entrance Facility connection type is different from the Direct-Trunked Transport connection type or, if the Entrance Facility contains Tandem-Switched Transport to more than one access tandem.

If the Entrance Facility is existing, the customer must provide the information as set forth in 3.6.1 B through D following.

(2) SNET SONET Network Service (SSNS)*

- (a) The customer premises.
- (b) The SSNS OCN level (OC3, OC12).
- (c) The SSNS optional features (including ports).
- (d) Multiplexing is required if the SSNS Node port type is different from the Direct-Trunked Transport type or if the SSNS facility contains Tandem Switched Transport to more than one access tandem.

If the SSNS elements are existing, the customer must provide the information as set forth in 3.6.1 B through D as applicable.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 3 - Ordering Regulations

3.6 Service-Specific Ordering Information (Cont'd)

3.6.1 Switched Access Service (Cont'd)

A. Switched Transport and Directory Transport Services (Cont'd)

(3) Direct-Trunked Transport

- (a) The connection type (Voice Grade, DS1 or DS3).
- (b) If multiplexing is requested, the customer must specify each Hub location where the multiplexer or multiplexers are to be installed.
- (c) The Entrance Facility or SSNS* to which the Direct-Trunked Transport facility is interconnected. The Entrance Facility or SSNS Port must be of an equal or higher capacity than the Direct-Trunked Transport facility and must also have a compatible interface. If the Entrance Facility or SSNS is new, additional information as set forth in 3.6.1 A (1) or (2) is also required.
- (d) Multiplexing is required if the Direct-Trunked Transport connection type is different than that required by the central office switch, or if the Direct-Trunked Transport facility contains trunks to more than one central office switch, or if any Special Access circuits will be assigned to the facility.

If the Direct-Trunked Transport facility, the Entrance Facility, or SSNS* is existing, the customer must provide the information as set forth in 3.6.1 B through D, as applicable.

With Direct-Trunked Transport or DA Direct-Trunked Transport to a Telephone Company access tandem, Tandem-Switched Transport or Tandem-Switched Directory Transport is not required to be ordered from the Telephone Company access tandem to the end office.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 3 - Ordering Regulations

3.6 Service-Specific Ordering Information (Cont'd)3.6.1 Switched Access Service (Cont'd)A. Switched Transport and Directory Transport Services (Cont'd)B. Feature Group A (FGA)

- (1) The number of lines.
- (2) The first point of switching (i.e., dial tone office).
- (3) The directionality of the service.
- (4) The Switched Transport and/or Local Switching options desired, if any.
- (5) Whether the off-hook supervisory signaling for the ordered line(s) is to be provided by the customer's equipment or is to be forwarded by the customer's equipment when the called party answers.
- (6) If the FGA is to be provided with an extension to a different LATA, the customer's premises at which the FGA extension is to be terminated.
- (7) Percent Interstate Use (PIU).
- (8) If the service is to be used for resale, it shall also specify which lines are to be arranged in multiline hunt group arrangements and which lines are to be provided as single lines.
- (9) If a new Switched Transport facility is specified, additional information as set forth in 3.6.1 A, is also required. If an existing Switched Transport facility is specified, such facility must have a compatible interface and available capacity to install the FGA service. In addition, the customer must also specify the connecting facility assignment to the FGA being installed.

C. Feature Group B (FGB)

- (1) The number of trunks.
- (2) The end office when direct routing to an end office.
- (3) The Telephone Company access tandem switch when routing via a Telephone Company access tandem switch.
- (4) The Switched Transport and/or Local Switching options desired, if any.

Section 3 - Ordering Regulations

3.6 Service-Specific Ordering Information (Cont'd)3.6.1 Switched Access Service (Cont'd)C. Feature Group B (FGB) (Cont'd)

- (5) When ordering FGB trunks to a Telephone Company access tandem, an estimate of the amount of traffic it will generate to and/or from each end office subtending the access tandem to assist the Telephone Company in its own efforts to project further facility requirements.
- (6) For terminating only access, whether the trunks are to be arranged in trunk group arrangements or provided as single trunks.
- (7) The traffic type must also be specified using the same categories as described in Section 6 of Tariff FCC No. 11 to enable efficient provisioning and billing functions.
- (8) Percent Interstate Use (PIU).
- (9) If a new Switched Transport facility is specified, additional information as set forth in 3.6.1 A is also required. If an existing Switched Transport facility is specified, such facility must have a compatible interface and available capacity to install the FGB service. In addition, the customer must also specify the connecting facility assignment to the FGB being installed.

D. Feature Group D (FGD)

- (1) The number of trunks.
- (2) When direct routing to the end office, the end office.
- (3) When routing via a Telephone Company access tandem switch, (a) the Telephone Company access tandem switch and (b) an estimate of the amount of traffic it will generate to and/or from each end office subtending the Telephone Company access tandem, to assist the Telephone Company in its own efforts to project further facility requirements.
- (4) The traffic type must also be specified using the same categories as described in Section 6. to enable efficient provisioning and billing functions.
- (5) The Switched Transport and Local Switching Options desired, if any.
- (6) If a new Switched Transport facility is specified, additional information as set forth in 5.6.1 A, is also required. If an existing Switched Transport facility is specified, such facility must have a compatible interface and available capacity to install the FGD service.

In addition, the customer must also specify the connecting facility assignment to the FGD being installed.

Section 3 - Ordering Regulations

3.6 Service-Specific Ordering Information (Cont'd)3.6.1 Switched Access ServiceD. Feature Group D, (FGD) (Cont'd)

- (7) When routing the traffic via a Tandem Switching Provider (TSP) Switch (a) the TSP tandem switch and trunk identification code and (b) a Letter of Authorization indicating that the TSP has agreed to transport the customer's traffic.

E. Switched Access Service Traffic Engineering Responsibilities

When Switched Access Service is ordered the customer is responsible to assure that sufficient access facilities have been ordered to handle its traffic.

Determining Number of Trunks - The required number of trunks may be determined by the customer in the following manner for each end office and/or access tandem the customer wishes to serve:

- Determine the greatest number of trunks in use for a single hour, i.e., the busy hour.
- Select the 20 consecutive business days in a calendar year, which add up to the largest number of trunks in use during the busy hour.
- Determine the average number of busy hour trunks by dividing the largest number of trunks in use figure by 20.

3.6.2 Switched Access Service to a Remote Switching Office

When a customer desires Switched Access Service to an end office that is a remote switching office, the customer must order to the host office which controls the remote switching office since all traffic to and/or from a remote switching office must be routed through the host office. In addition, the customer must provide information to the Telephone Company, which includes the traffic distribution to the remote office(s) controlled by the host office.

3.6.3 Directory Assistance (DA) Service

DA can be utilized with FGA, FGB, or FGD Switched Access Service. For Direct-Trunked Transport of Directory Assistance utilizing FGB or FGD directly to the DA location, the customer shall specify the number of trunks required from the customer premises to the DA location. If the DA Service is to be associated with a FGB or FGD Tandem-Switched Transport, the customer shall also specify which FGB or FGD trunk group is to be associated with the DA Service. The customer shall specify the Directory Transport options. The customer shall also specify the Percent Interstate Use (PIU).

Section 3 - Ordering Regulations

3.6 Service-Specific Ordering Information (Cont'd)3.6.3 Directory Assistance (DA) Service (Cont'd)

When Directory Assistance Access Service is ordered, the customer must specify if new or existing Directory Direct-Trunked Transport services are to be used. If new Directory Transport facilities are specified, additional information as set forth in 3.6.1 (A) is also required. If an existing Directory Transport facility is specified, such facility must have a compatible interface and available capacity to install the service. The customer must also specify the connecting facility assignment for the service being ordered.

3.6.4 Special Access Service and SNET SONET Network Service ¹

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The customer must designate the customer premises and/or Hubs involved, the channel type, e.g., Voice Grade, the network channel interface, technical specification package and options desired. For multipoint services, the network channel interface specified at each premises may be different, but all such interfaces shall be compatible.

3.6.5 WATS Access Line Service ² - Grandfathered as of July 31, 2020

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For Intrastate Wats Access Line Service see the Telephone Company's general/local exchange tariffs.

3.6.6 Special Access Surcharge Exemption

Where the Special Access Service is exempt from the Special Access Surcharge as set forth in Section 5., the customer shall furnish the certification with the order, as set forth in that section.

3.6.7 Shared Use Facilities

Shared Use of the same digital high capacity facilities for the provision of Local Exchange Access Unbundled Network Services is permitted. Shared Use of the same digital high capacity facilities for the provision of Switched and Special Access Services is permitted as long as both facilities have the same term plan as referenced in Section 2.11.1.(G). Shared use facilities shall be ordered to a Hub and will be provided as Switched Access Service or Special Access Service. Individual services utilizing Shared Use facilities must be ordered either as Switched Access Service, Special Access Service, or Local Exchange Access Service. When placing the order for such individual service(s), the customer must specify the channel assignment for each service ordered.

¹ Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

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² Wide Area Telephone Service (WATS) offering is grandfathered as of July 31, 2020 and limited to existing subscribers at their existing locations.

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Section 3 - Ordering Regulations

3.6 Service-Specific Ordering Information (Cont'd)3.6.8 500 Access Service, 800 Database Access Service and 900 Access Service

The customer shall order in the same manner which is set forth preceding for ordering FGD. For 500 Access Service or 800 Database Access Service, the customer shall order in trunks through designated Telephone Company Access Tandems. For 900 Access Service, when new NXX(s) are to be opened in the LATA, or when existing NXX(s) are to be deleted, and such change is to occur coincident with the service date established for the order, the customer shall provide such information when placing the order for service. If the change is to occur absent the requirement for additional capacity (i.e., quantities of trunks), the customer shall notify the Telephone Company of the change as set forth in Section 6 of Tariff FCC No. 11. All 500, 800 Series and 900 number assignments and administration shall be in accordance with the North American Numbering Plan (NANP).

For 800 Database Access Service, the customer must also specify whether the 800 Series to POTS number translation optional feature is desired. If this feature is ordered, the customer will have no way of determining that such calls originated as 1-800 Series-NXX-XXXX dialed calls unless the customer also orders the Automatic Number Identification (ANI) optional feature as specified in Section 6 of the Telephone Company's Interstate Access Tariff.

3.6.9 Dedicated Signaling Transport (DST)

For DST, the customer must provide the following information to the Telephone Company at the time of ordering: the number of STP Access Mileage 56 kbps links, the originating point code for the customer's designated premises, the Common Language Location Identifier (CLLI) code of the Telephone Company Signaling Transfer Point, Link Type, the customer designated premises Telephone Number, the contact telephone number for installation and maintenance of the customer's designated premises, and the desired due date of the order.

When ordering DST the customer will provide an estimate of total annual volume and busy hour busy month volume projected for a period of three years. The forecast must be itemized by message type and CCS/SS7 octet load. Octet load must be High Day Busy Hour. The Telephone Company will utilize this forecast to project further facility requirements. An updated forecast providing an estimate of total annual volume and busy hour busy month volume projected for a period of three years should be provided to the Telephone Company every year thereafter. The updated forecast shall be provided to the Telephone Company during the month of January each year.

3.6.10 Feature Group D with Signaling System Seven (SS7) Signaling

For Feature Group D Switched Access Service with the SS7 Signaling Option, in addition to information listed in 3.6.1 D preceding, the customer shall specify a reference to existing signaling connections or reference to a related DST signaling connection order. The customer must also specify any SS7 Common Switching optional features as described in Section 6 of Tariff FCC No. 11.

Section 3 - Ordering Regulations

3.6 Service-Specific Ordering Information (Cont'd)3.6.10 Feature Group D with Signaling System Seven (SS7) Signaling (Cont'd)

For Feature Group D trunks ordered with SS7 signaling, the customer shall provide STP point codes, switching point codes, trunk circuit identification codes and switch type. FGD with SS7 Signaling will be offered to customers as it becomes available and as facilities and resources permit and will be provided as mutually agreed upon by the Telephone Company and the customer based on availability from the customer's location to the Telephone Company Tandem or end office.

3.6.11 Line Information Data Base (LIDB) Validation Service

For LIDB Validation Service, the customer shall provide a LIDB Access Service Order which specifies the originating point codes (OPCs) of the customer's designated Operator Service System (OSS) sending the query or queries and the desired due date of the order.

LIDB Validation Service is provided via DST as set forth in Section 12.1 following, from a customer Signaling Point of Interconnection (SPOI) to the two Telephone Company interconnecting Signal Transfer Points (STPs) located in Hartford and New Haven, Connecticut in order to utilize LIDB Access Service.

Customers may also obtain LIDB Validation Service through a CCS7 transport service provider that has previously ordered DST and LIDB Validation Service from the Telephone Company.

3.6.12 Reserved For Future Use

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Section 3 - Ordering Regulations

3.6.13 Zero Minus Transfer Service (0-)

For Zero Minus Transfer Service ordered in conjunction with FGD as specified in Section 9 following the customer must specify the number of trunk(s) ordered between their premises and the Telephone Company Operator Services Position System locations served by the Operator Services Position System. Zero Minus Transfer trunk(s) are used to carry originating 0- Transfer traffic only, i.e., the end user dials only the 0 digit with no additional digits.

3.6.14 Telecommunications Relay Service (TRS)

FGD Switched Access Service may be used to carry calls originated from the TRS Provider. Customers may use existing tandem routed facilities to carry TRS traffic or order separate FGD Switched Access Service to the tandem switch which serves the TRS Provider's point of interface.

In order to use existing FGD Switched Access facilities, the customer must place an order with the Telephone Company specifying which trunks will route TRS traffic. Existing facilities must terminate in the access tandem which serves the TRS Provider's point of interface.

3.6.15 Shared Network Arrangement

When establishing Special Access Service or Switched Access Service under a Shared Network Arrangement, the Host Subscriber and the Service User must coordinate with each other the design, testing and maintenance of the service; additionally, the Service User must provide to the Telephone Company the Connecting Facility Assignment (CFA) and the High Capacity Billing Account Number (HBAN) of the Host Subscriber.

Section 3 - Ordering Regulations

3.6.15 Shared Network Arrangement (Cont'd)

Upon receipt of a letter of authorization for a Shared Network Arrangement from the Host Subscriber, the Telephone Company will undertake to connect the Service User's circuits to the Host's service and to establish and maintain separate billing for the Service User's portion of the service. In the event that the Service User is requesting a subtending circuit from a Host Shared Network Arrangement with a third-party Host (a cascading Shared Network Arrangement), the Service User must also obtain and provide to the Telephone Company the appropriate HBAN and CFA of the third-party Host, in order to identify the complete circuit for purposes of maintenance and testing continuity.

3.6.16 Signaling for Tandem Switching

For Signaling for Tandem Switching Service, in addition to the information listed in 5.6.1 A preceding, the Tandem Switching Provider (TSP) must provide the following information at the time of ordering:

- (a) A Carrier Identification code (CIC) of that TSP.
- (b) Separate Direct-Trunked Transport originating only facilities to the end office to each end office requested.
- (c) If ordering associated Feature Group D Service on behalf of a customer, the TSP must also provide the information required to order trunk-side Feature Group D Service as specified in 3.6.1 D, as applicable. The TSP must also provide a Letter of Authorization (LOA) indicating that the Feature Group D customer has agreed to allow the TSP to transport its traffic to the customer's POP. The LOA must specify the same information as that requested on the order.
- (d) If ordering Signaling for Tandem Switching on an SS7 basis, the customer shall specify a reference to existing signaling connections or reference to a related Dedicated Signaling Transport signaling connection order as specified in Section 12.
- (e) The TSP must ensure that it will not duplicate any Telephone Company trunk group numbers in accordance with specifications set forth in the Company's Publication: Provisioning for Signaling for Tandem Switching.

Section 3 - Ordering Regulations

3.7 Selection of Facilities for Access Orders

When a customer places an Access Order, it may choose to utilize Special Access facilities previously purchased to a Hub or SNET SONET Network Service* previously purchased to a C.O. Node. If the customer has a high capacity interface for use with Switched Access Service DS1 or DS3, or has a Special Access Service facility purchased to a Hub, or when there are digital high capacity facilities to a Signal Transfer Point (STP) for Dedicated Signaling Transport, the customer must request that specific channels be used to implement the Access Order for all Direct-Trunked Transport and Entrance Facilities. For Tandem-Switched Transport from the Access Tandem to the End Office, the customer will only provide the connecting facility assignment for the Entrance Facility and the Direct-Trunked Transport.

For all other Access Orders, 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 Section 3.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 3 - Ordering Regulations

3.8 Provision of Other Services

- A. Testing Service, Additional Labor, Telecommunications Service Priority (TSP) and Special Facilities Routing shall be ordered with an Access Order or as set forth in B. following. The rates and charges for these services, as set forth in other sections of this tariff, 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. With the agreement of the Telephone Company, the items listed in A. preceding may subsequently be added to the order 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 3.4.3 preceding will apply when an engineering review is required.
- C. Additional Engineering is not an ordering option but will be applied to an Access Order when the Telephone Company determines that Additional Engineering is necessary to accommodate a customer request. Additional Engineering will only be required as set forth in Section 6 following. 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 the 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%.

The regulations, rates and charges for Additional Engineering are as set forth in Section 6 following and are in addition to the regulations, rates and charges specified in this section.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 4-1

Section 4 - Switched Access Service

4.1 Switched Access Service

Switched Access Service is in section 6 of Tariff FCC No 11.

4.1.1 Concurrence

This section concurs in Frontier Telephone Companies Tariff FCC No. 11, Section 6 Switched Access Service, and/or Section 24 Metropolitan Statistical Area Access Services (when the CLLI is an MSA where this section is applicable).

FCC Tariff can be accessed via the following hypertext:
<http://tariffs.citizenscommunications.com>

Exceptions to this concurrence of Frontier Telephone Companies Tariff FCC No. 11, Section 6, are as listed below. The following cited exceptions relate to that specific section in the interstate Tariff FCC No. 11.

4.1.2 General

Feature Group A (FGA) Arrangement (Terminating)

Common Line

Provides for the use of common subscriber plant, as set forth in Section 4.3.11 of the intrastate access tariff. An End Office Line Port will also apply to WATS Access Lines when the arrangement is for line side access and for Feature Group A lines.

4.2 Switched Access Service Rate Categories

4.2.1 Carrier Common Line *

(C)

(D)

* See Frontier Telephone Companies Tariff FCC No. 11 for rates

(D)

(N)

Section 4 - Switched Access Service

4.2 Switched Access Service Rate Categories (Cont'd)4.2.2 Intrastate PICC Application

For end users who have selected a presubscribed intrastate long distance carrier, the Intrastate PICC applies on a per presubscribed line basis and is assessed to the presubscribed intrastate long distance carrier. This charge also applies when a telecommunications carrier has purchased local exchange service for resale. If the local exchange service is provided on a resold basis by a telecommunications carrier other than the Telephone Company, and the end user has not chosen a presubscribed intrastate carrier, the reseller will be assessed the PICC.

When an end user does not have a presubscribed intrastate long distance carrier on the line and the end user receives assistance for a single telephone line to the household's principal residence under a telephone lifeline assistance plan approved by the FCC, the Primary Residence Intrastate PICC will be waived.

A. Single Business Telephone Exchange Service

When an end user is provided a single business Telephone Exchange Service in a state by the Telephone Company, the standard Intrastate PICC rate applies to the service.

B. Residence Telephone Exchange Service

When an user is provided a residence local Telephone Exchange Service in a state by the Telephone Company, under the general or local exchange tariffs, the standard Intrastate PICC rate applies.

C. Integrated Services Digital Network (ISDN)

(1) Basic Rate Interface (BRI) - Grandfathered ¹

(C)

The standard Intrastate PICC rate applies for each BRI service (2 voice-grade equivalent channels plus one data channel).

(2) Primary Rate Interface (PRI)

The ISDN PRI rate applies for each PRI service (23 voice-grade equivalent channels plus one data channel).

¹ ISDN-BRI is grandfathered and limited to existing customers at existing locations as of March 28, 2022. Moves, additions or changes will not be permitted.

(N)

(N)

Section 4 - Switched Access Service

4.2 Switched Access Service Rate Categories (Cont'd)

4.2.2 Intrastate PICC Application (Cont'd)

D. Centrex

(1) Business Centrex

The Centrex Intrastate PICC rate is applied with a 9 to 1 ratio; for every nine lines, one standard intrastate PICC rate applies. When a customer has nine or more Centrex lines, the nine or more Centrex rate applies per line. If a customer has fewer than nine lines, the charge applied is based on the number of Centrex lines. For example, if a customer has four lines, the four line Centrex rate applies per line.

(2) Centrex Dormitory Service

- (a) The standard Intrastate PICC rate applies on lines or trunks that service dormitory quarters.
- (b) The Centrex Intrastate PICC rate is applied to the lines or trunks that are used by the university, college, or school for administrative purposes. The Centrex Intrastate PICC rate is applied with a 9 to 1 ratio. When a customer has nine or more Centrex lines, the nine or more Centrex rate applies per line. If a customer has fewer than nine lines, the charge applied is based on the number of Centrex lines. For example, if a customer has six lines, the six-line Centrex rate applies per line.

E. Multiline Business Service

When an end user is provided more than one business Telephone Exchange Service in the same state by the same Telephone Company, which is not covered by A. preceding, the standard Intrastate PICC rate applies to each business exchange service.

F. Public Telephone

The standard Intrastate PICC rate for Multiline Business Service applies.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 4-4

Section 4 - Switched Access Service

4.3 Switched Access Service Rates and Charges

				<u>Originating</u>	
4.3.1(A)	Tandem Transmission - Non 800				(C)
4.3.1(A) (1)	Tandem Transport Termination-per access minute			\$0.000085	
4.3.1(A) (2)	Tandem Transport Termination-per access minute per mile			\$0.000010	
4.3.1(B)	Remote Tandem Transmission - Non 800				(C)
4.3.1(B) (1)	Tandem Transport Termination-per access minute			\$0.000830	
4.3.1(B) (2)	Tandem Transport Termination-per access minute per mile			\$0.000266	
		<u>Originating</u>	<u>Terminating End Office</u>	<u>Terminating 3rd Party</u>	
4.3.1(C)	Tandem-Switching - Non 800				
4.3.1(C) (1)	- per access minute	\$0.001468	\$0.000000	\$0.000634	(C)
4.3.1(D)	Common Transport Mux - Non 800	\$0.000227		\$0.000082	(C)
4.3.1(E)	Access Tandem Trunk Port - per Access Tandem Trunk Port				
4.3.1(E) (1)	Analog	\$10.41		\$10.41	
4.3.1(E) (2)	Digital	\$85.59		\$56.00	

4.3.1.1 Vintage RatesA. General Regulations

Optional Payment Plan (OPP) vintage rates are those rates that apply to existing services provided under an OPP in the event that the Telephone Company initiates a rate increase. Vintage rates, as set forth following, are classified as vintage because the Telephone Company ensures that rates provided under the OPP will not be increased by the Telephone Company above the OPP rate in effect at the beginning of the Customer's OPP term.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 4-5

Section 4 - Switched Access Service

4.3 Switched Access Service Rates and Charges (Cont'd)4.3.1.1 Vintage Rates (Cont'd)B. Vintage Rates by effective date

The following rates apply for intrastate Switch Access/Dedicated Transport Services installed before July 2, 2013.

<u>Entrance Facility</u>	3 Yr-OPP
DS3 (per DS3)	
Zone 1	\$1,125.00
Zone 2	\$1,150.00
<u>Direct-Trunked Transport /</u>	5 Yr-OPP
DS3 (per DS3)	<u>Mileage Bands</u>
Zone 3	<u>Per Mile</u>
	\$50.00

4.3.2(A)	Local Switching Usage Sensitive Rate - Non 800 per access minute	<u>Originating</u>	(C)
		\$0.007240	
4.3.2(B)	Common Trunk Port - Non 800 -per access minute	<u>Originating</u>	(C)
		\$0.001325	
4.3.2(C)	End Office Trunk Port Digital	Originating	
		\$144.00	

4.3.3 Common Line Access ChargesA. Carrier Common Line Access

- Terminating Per Access Minute	\$.000000
- Originating Per Access Minute	\$.000000

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

4th Revised Page 4-6

Section 4 - Switched Access Service

4.3 Switched Access Service Rates and Charges (Cont'd)

4.3.4	Message Unit Credit-per originating FGA Access Minute		\$0.002179	
4.3.5	800 Database Access Services			
4.3.5(A)	800 Database Basic Query, with 800 Series Number Turnaround	Per Query	\$0.00020000	(R)
4.3.5(B)	Vertical Features per Query, with Premium Handling and Routing Options	per Query	\$0.00000000	

4.3.6 End Office Line Port

	Monthly Rate
- Per End Office Line Port	\$2.12

4.3.7 Intrastate Presubscribed Interexchange Carrier Charge (PICC)

	Monthly Rate
(1) Standard rate per line	
(a) Primary Residence Subscriber	\$1.21
(b) Single Line Business Subscriber	\$1.21
(c) Non-primary Residence Subscriber	\$1.21
(d) Multiline Business Subscriber	\$1.21
(e) Basic Rate Interface (BRI) - Grandfathered ¹	\$1.21
(2) Primary Rate Interface (PRI)	\$6.05
(3) Centrex - per line rate	
- one line	\$1.21
- two lines	\$0.61
- three lines	\$0.40
- four lines	\$0.30
- five lines	\$0.24
- six lines	\$0.20
- seven lines	\$0.17
- eight lines	\$0.15
- nine or more lines	\$0.13

¹ ISDN-BRI is grandfathered and limited to existing customers at existing locations as of March 28, 2022. Moves, additions or changes will not be permitted.

Section 5 - Special Access Service

5.1 General

Special Access Service provides a channel, or transmission path, to connect two or more customer premises⁽¹⁾ or to connect a customer premises to a Telephone Company location where multiplexing functions are performed.

- (1) For the purpose of administering the rates and regulations associated with the provision of Special Access Service, Telephone Company Centrex CO-like Switches, and Telephone Company Answering Service Concentrators are considered to be premises.

Section 5 - Special Access Service

5.2 Service Types

For purposes of ordering, Special Access Services have been categorized by type. The categories are not intended to limit a customer's use of a service, nor to imply that a service is limited to a particular use.⁽¹⁾

The various types of Special Access Services can be further differentiated according to technical parameters, which define the technical characteristics of each service. Customers can order Special Access Services in accordance with predefined technical specifications packages, which are described in the appropriate technical reference publication(s) for the service ordered. In addition, customers may request a custom technical specifications package in association with certain services to meet specific transmission requirements. The Telephone Company will provide customer packages subject to technical feasibility and compatibility. Additional Engineering Charges, as set forth in Section 6, may be required in association with a request for such services.

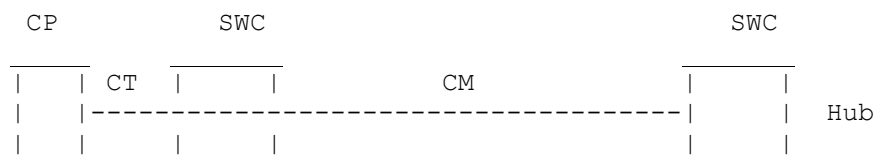
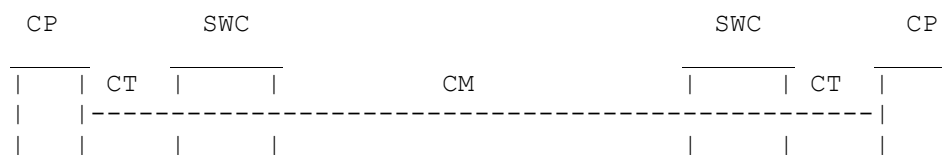
- (1) A customer may use a service in any privately beneficial manner. Upon request, the Telephone Company will arrange service under this tariff such that the customer can select different types of transmission at different times, which is referred to as Alternate Use. Rates, charges and regulations for such arrangements will be handled on an individual case basis as provided by the regulations in Section 8 and will apply in addition to those for the service(s) ordered.

Section 5 - Special Access Service

5.3 Special Access Service Configuration and Arrangements5.3.1 Two-Point Service

A two-point Special Access Service connects:

- A. two customer premises;
- B. a customer premises and a Telephone Company Hub location where bridging and/or multiplexing functions are performed.

Example

Legend: CM - Channel Mileage
CP - Customer Premises

CT - Channel Termination
SWC - Serving Wire Center

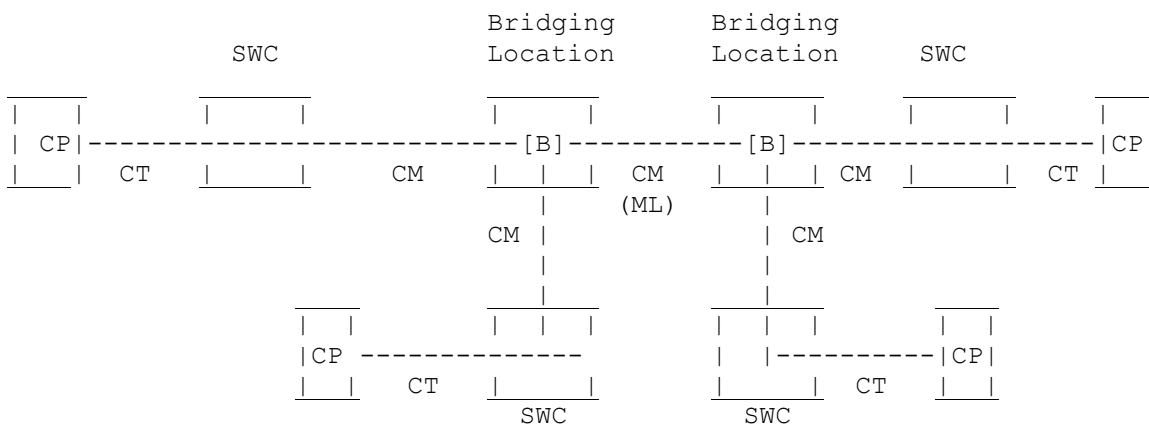
Section 5 - Special Access Service

5.3 Special Access Service Configuration and Arrangements (Cont'd)5.3.2 Multipoint Service

A customer has the option of ordering certain Special Access services, as designated in separate subsections, which follow, to a bridging location to connect three or more customer premises in a multipoint arrangement. When ordering bridging, the customer must specify the desired bridging location(s), as set forth in National Exchange Carrier Association Tariff F.C.C. No. 4.

When Hubs are involved, mileage is computed and rates are applied separately for each section of the Channel Mileage. However, when any service is routed through a Hub for purposes other than customer specified bridging or multiplexing, e.g., the Telephone Company routes a service via a Hub location for test access purposes, rates will be applied only to the distance calculated between the SWCs associated with the customer premises.

Channels are connected to a bridging arrangement through what is referred to as a port. A channel between bridging locations is referred to as a mid-link. Although there is no limitation on the number of mid-links available with multipoint service, when more than three mid-links are provided in tandem, the quality of the service may be degraded.

Example

Legend: B - Bridging Function
CM - Channel Mileage
CP - Customer Premises

CT - Channel Termination
ML - Mid-link
SWC - Serving Wire Center

In this example, rates for four channel terminations, five sections of channel mileage and six bridging ports would apply.

Section 5 - Special Access Service

5.3 Special Access Service Configuration and Arrangements (Cont'd)5.3.3 Video Hubs

The Telephone Company will designate certain Telephone Company locations as Video Hubs. A customer may order service(s) between a customer premises and such Hubs, as set forth in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. At the request of the customer, these services may be connected together at the Hub location to form an end-to-end service between customer premises. The customer will be charged for the setup of each such connection at the rates for Other Labor as set forth in Section 6.

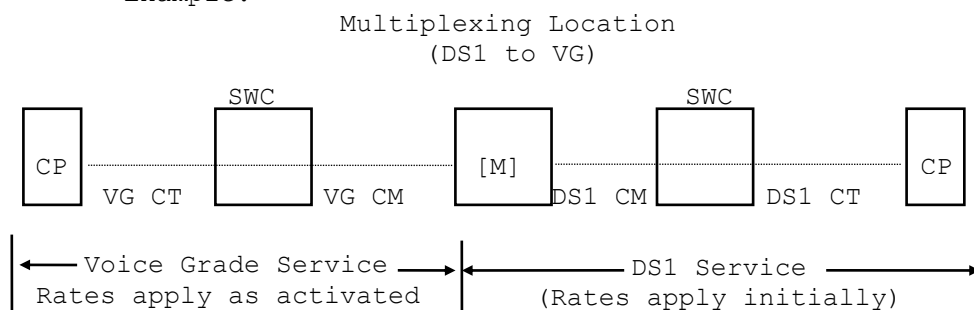
5.3.4 Central Office Multiplexing

A customer has the option of ordering certain Special Access services to a Telephone Company multiplexing location to derive individual lower capacity channels. Descriptions of the types of multiplexing available and the number of individual channels, which may be derived from each type of service may be found in separate subsections which follow. When ordering multiplexing, the customer must specify the desired multiplexing location(s), as set forth in the National Exchange Carrier Association Tariff F.C.C. No. 4. Billing for the higher capacity service to the multiplexing location and the multiplexing function commences on the date specified by the customer on the Access Order.

A. Derived Channel Activation

Channels derived from multiplexing a higher capacity service may be utilized to provide end-to-end services. The customer activates and/or extends the derived channels by placing an order, which includes the individual connecting facility assignment associated with the higher capacity service for each end-to-end service. Such services may be installed initially, or they may be ordered and installed at a later date, at the option of the customer. As individual lower capacity services are installed, rates and charges will be billed. At the option of the customer, these services may include optional features and functions.

Example:



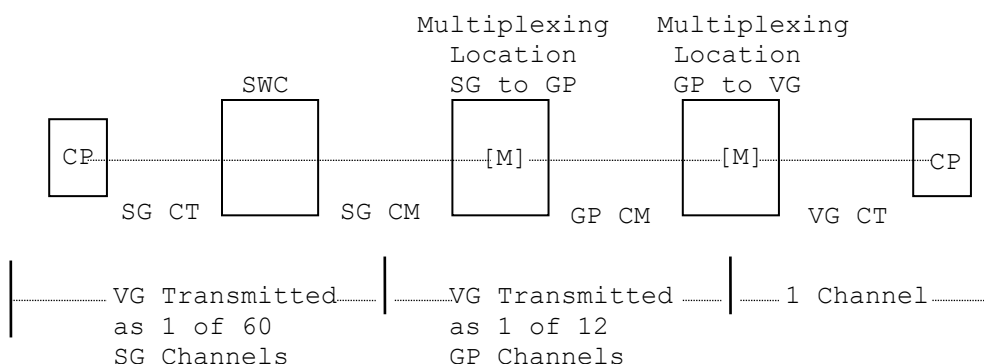
Legend:

CM - Channel Mileage	M - Multiplexing Function
CP - Customer Premises	SWC - Serving Wire Center
CT - Channel Termination	DS1 - 1.544 Mbps High Capacity
VG - Voice Grade	

Section 5 - Special Access Service

5.3 Special Access Service Configuration and Arrangements (Cont'd)5.3.4 Central Office Multiplexing (Cont'd)B. Cascade Multiplexing

When a derived channel of a High Capacity Analog or Digital Service is itself multiplexed to derive additional channels with a lesser capacity, this is referred to as cascade multiplexing. When cascading is ordered, a charge for the additional multiplexing function applies. When cascade multiplexing is performed at a different multiplexing location, as depicted in the example, which follows, Channel Mileage charges apply between the multiplexing locations.

ExampleLegend

CT - Channel Termination
CM - Channel Mileage
GP - Group Wideband Analog Service
M - Multiplexing Function

CP - Customer Premises
SG - Supergroup Wideband Analog Service
SWC - Serving Wire Center
VG - Voice Grade Service

Section 5 - Special Access Service

5.3 Special Access Service Configuration and Arrangements (Cont'd)5.3.4 Central Office Multiplexing (Cont'd)C. Shared Use (Derived Channels Used for Switched and Special Access)

Shared Use refers to a rate application applicable only when the customer orders Special Access High Capacity facilities between a customer designated premises and a Telephone Company Hub or SNET SONET Network Service* to a C.O. Node where the Telephone Company performs multiplexing/demultiplexing functions and the same customer then orders the derived circuits as Switched Access Service. The Network Reconfiguration Service (NRS) is not available for Shared Use services.

The facility will be ordered, provided and rated as High Capacity Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexing) between the customer designated premises and the Telephone Company Hub or SNET SONET Network Service to a C.O. Node. The non-recurring charge that applies when the Shared Use facility is installed will be the nonrecurring charge associated with the appropriate Special Access High Capacity Channel Termination.

As each individual circuit is activated for Switched Access Service, the Special Access High Capacity Channel Termination, Channel Mileage and Multiplexer or SNET SONET Network Service rates will be reduced accordingly (e.g., for Voice Grade capacity of Switched Access Service 1/24th of a DS1 service, 1/672nd of a DS3 service, 1/2016 of an OC3 service, 1/8064 of an OC12 service, etc). Switched Access Service rates and charges, as set forth in Section 4, preceding, or Section 19, following, will apply for each circuit of the Shared Use facility that is used to provide a Switched Access Service. The Switched Access rates on the Shared Use facility to the multiplexer will be at the capacity of the Special Access facility but adjusted for the number of channels for Switched Access including the multiplexer. From the multiplexer, the Switched Access rates apply.

The customer must place an order for each individual Switched or Special Access Service utilizing the Shared Use Facilities and specify the circuit assignment for each such service.

When Special Access Service is provided utilizing a circuit of the Shared Use Facility to a Hub, High Capacity rates and charges will apply for the facility to the Hub as set forth preceding, and individual service rates and charges will apply from the Hub to the customer designated premises. The rates and charges that will apply to the portion from the Hub to the customer designated premises will be dependent on the specific type of Special Access Service that is provided. The applicable rates and charges will include Channel Termination and Channel Mileage rates and charges, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply for the appropriate circuit type.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 5 - Special Access Service

5.4 Special Access Service Rate Categories (Cont'd)

The following rate categories apply to Special Access Services:

5.4.1 Standard Channel Termination

A Standard Channel Termination provides for the transmission facilities between a customer premises and the serving wire center of that premises. One Channel Termination charge applies per customer premises at which the Special Access Service is terminated. This charge applies even if the customer premises and the serving wire center are colocated in a Telephone Company building, e.g., Centrex CO type switch.

A Standard Channel Termination includes a standard network channel interface arrangement based on the technical characteristics of the Telephone Company facilities at the point of termination and the type of signaling capability, which, if required, is provided as an optional feature.

The Standard Channel Termination rate will apply for all Telephone Company Access Connections except High Capacity Services utilizing an Expanded Interconnection Arrangement. A Standard Channel Termination monthly rate will apply even when the customer designated premises and the serving wire center are located in the same Telephone Company building unless the customer establishes an Expanded Interconnection Arrangement, in which case the Cross-Connect Termination monthly rate will apply as specified in Section 14.

5.4.2 Channel Mileage

Channel Mileage provides for the transmission facilities between:

- A. the serving wire centers (SWCs) associated with two customer premises;
- B. a SWC associated with a customer premises and a Telephone Company Hub location;
- C. two Telephone Company Hub locations.

Channel Mileage rates apply according to mileage bands, with two monthly rates applying for each band, i.e., a fixed (flat) rate plus a per mile rate.

5.4.3 Optional Features and Functions

Optional features and functions may be ordered to improve the quality or utility of Special Access Service to meet specific communications requirements. These features and functions are not necessarily identifiable with specific equipment; rather, they represent the overall performance characteristics which may be obtained using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations on the facility, each optional feature and/or function is charged for as a single rate element.

Section 5 - Special Access Service

5.4 Special Access Service Rate Categories (Cont'd)5.4.4 Special Access Surcharge

The Special Access Surcharge compensates the Telephone Company for use of the local exchange network when Special Access Service is connected to a PBX or equivalent device, which is capable of interconnecting the Special Access Service with Telephone Exchange Service.

The Telephone Company will automatically bill the surcharge to the customer who orders each Special Access Service, regardless of whether the interconnection capability exists in the customer's equipment or in a Centrex CO type switch, unless written certification is received from the customer certifying exemption status as set forth following.

A. Surcharge Exemptions

A Special Access Service will be exempt from the surcharge if the customer provides the Telephone Company written certification that the Special Access Service termination is in one of the following categories:

- (1) an open-end termination in a Telephone Company switch of an FX line, including CCSA and CCSA-type ONALS;
- (2) a termination used for TELEX service;
- (3) a termination that, by the characteristics of its operating nature, could not make use of Telephone Exchange Service;
- (4) a termination that interconnects, either directly or indirectly, to the local exchange network where the usage is subject to Carrier Common Line charges, e.g., the Special Access Service accesses only FGA and no local exchange lines, or Special Access Service between customer points of termination or Special Access Service connecting CCSA or CCSA-type equipment (inter-machine trunks); or
- (5) a termination that the customer certifies is not connected to a PBX or other device capable of interconnecting the Special Access Service to Telephone Exchange Service.

Section 5 - Special Access Service

5.4 Special Access Service Rate Categories (Cont'd)5.4.4 Special Access Surcharge (Cont'd)B. Surcharge Exemption Certification

Special Access Services which are terminated as set forth in A. preceding will be exempt from the Surcharge if the customer provides the Telephone Company with a written notification certifying exemption. Such notification shall be provided by the customer (1) at the time the Special Access Service is provided; (2) at such time as the Special Access Service is reterminated in a device not capable of interconnecting to Telephone Exchange Service or (3) at such time as the Special Access Service becomes associated with a Switched Access Service that is subject to Carrier Common Line charges.

If written certification is not received at the time Special Access Service is provided, the surcharge will be applied. Subsequent exemption status will become effective on the certification date indicated by the customer, subject to the regulations in (C) following.

The written certification (1) is to be provided by the customer ordering the service; (2) must be signed by the customer or authorized representative; and (3) must include the category of exemption and the date which the exemption is effective for each termination.

The customer shall also notify the Telephone Company when a Special Access Service with a surcharge exemption is changed or reterminated in such manner that the exemption is no longer applicable.

C. Crediting The Surcharge

The Telephone company will cease billing the Surcharge subject to the receipt of exemption certification. If the status of a Special Access Service was changed prior to the date the exemption certification was received, the Telephone Company will credit the customer's account. Such credit will not exceed ninety (90) days based on the effective date of the change specified in the customer's written certification.

D. Surcharge Monthly Rate Monthly Rate

Special Access Surcharge	
- Per surcharge assessed	\$25.00

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-11

Section 5 - Special Access Service

5.4 Special Access Service Rate Categories (Cont'd)5.4.4 Special Access Surcharge (Cont'd)E. Application of Surcharge

The Surcharge applies on a per voice grade, or voice grade equivalent, basis.

<u>Example:</u>	<u>Special Access Service</u>	<u>Voice Grade or Equivalents</u>	<u>Monthly Charge</u>
	Voice Grade	1	1 x \$25 = \$ 25.00
	Group	12	12 x \$25 = \$ 300.00
	DS1	24	24 x \$25 = \$ 600.00
	DS3	672	672 x \$25 = \$16,800.00

In the case of multipoint circuits, the total number of special access surcharges that apply is one less than the total number of customer designated premises. For example, a multipoint circuit with three customer designated premises would be billed two special access surcharges.

5.4.5 Message Station Equipment Recovery Charge

The Message Station Equipment Recovery Charge was established to recover that portion of message station equipment cost that is assigned to Special Access Service. This charge is assessed only to those customers and services to, which the Special Access Surcharge applies.

	<u>Monthly Rate</u>
Message Station Equipment Recovery Charge	\$0.00

Section 5 - Special Access Service

5.5 Special Access Service Description Summaries

There are two sets of identifying codes associated with each service type:

- A. a three or four position alpha/numeric code set referred to as a Service Designator (SD) and
- B. a four position code set referred to as a Network Channel (NC) Code. The first two alpha characters are directly related to the Service Designator code, while the remaining positions refer to optional features.

A brief description of each Special Access Service type is set forth in the following table. More detailed information regarding these services may be found in separate subsections, which follow and in the appropriate technical reference publication(s) for the service ordered.

<u>Service Type</u> <u>SDs/NCs</u>	<u>Description</u>	<u>Technical Reference Publications</u>
<u>Voice Grade</u>		
VG1/LB VG8/LJ	A channel for the transmission of analog signals in the nominal frequency range of 300 to 3000 Hz.	TR-TSY-000335 PUB 41004, Table 4
VG2/LC VG9/LK		
VG3/LD VG10/LN		
VG4/LE VG11/LP		
VG5/LF VG12/LR		
VG6/LG VGC/LQ		
VG5/LH		
<u>Video</u>		
TV1/TV	A channel for the transmission of a standard 525 line/60 field mono-chrome or National Television Systems Committee signal and one to four associated 5, 15 or 20 KHz audio signal(s).	TR-TSV-000338
TV2/TW		
TVC/TQ		

Section 5 - Special Access Service

5.5 Special Access Service Description Summaries (Cont'd)

<u>Service Type</u> <u>SDs/NCs</u>	<u>Description</u>	<u>Technical</u> <u>Reference</u> <u>Publications</u>
<u>Digital Data</u>	A channel for the digital transmission of synchronous serial data at bit rates of:	TR-NPL-000341
DA1/XA	of: - 2.4 kbps (DA1)	
DA2/XB	- 4.8 kbps (DA2)	
DA3/XG	- 9.6 kbps (DA3)	
DA4/XH	- 56.0 kbps (DA4)	
DA6/XD	- 64.0 kbps (DA6)	
<u>High Capacity</u>	A channel for the transmission of isochronous serial data at bit rates of:	PUB 62411 TR-NPL-000342
HC1/HC	- 1.544 Mbps - 24 equivalent voice grade channels (HC1, also referred to as DS1)	
HC1C/HD	- 3.152 Mbps - equivalent to two DS1 channels (HC1C, also referred to as DS1C)	
HC2/HE	- 6.312 Mbps - equivalent to four DS1 channels (HC2, also referred to as DS2)	
HC3/HF	- 44.736 Mbps - equivalent to 28 DS1 channels (HC3, also referred to as DS3)	
HC4/HG	- 274.176 Mbps - equivalent to 168 DS1 channels (HC4, also referred to as DS4)	
HCO/HS	- A DS1 channel may be multiplexed to derive 64.0 kbps channels (HCO, also referred to as DS0 channels)	

Section 5 - Special Access Service

5.6 Special Access Service Network Channel Interface (NCI) Code Information5.6.1 General

When ordering service, the customer must specify network channel interface (NCI) codes, which relate to the desired electrical interface characteristics of a Special Access Service at the points of termination. The NCI codes which are available at the point of termination are set forth according to service type in separate subsections which follow.

An NCI code may occupy up to a maximum of twelve field positions, including periods, which are used as delimiters. Depending on the type of service, an NCI code may contain up to five components, as shown in the following example and narrative:

<u>0 4</u>	<u>G S</u>	<u>2</u>	<u>C</u>	<u>Z</u>	<u>A</u>
A	B	C	D	E	

- A - Wires two digits which indicate the number of physical conductors which traverse the point of termination, e.g. "04" signifies four-wire;
- B - Signaling two alpha characters which identify the signaling and/or transmission characteristics of the interface, e.g., "GS" specifies a Voice Grade Service with ground start loop signaling;
- C - Impedance a single digit entry which specifies the nominal reference impedance with which the service will be terminated for the purpose of evaluating transmission performance, e.g., "2" signifies 600 ohms;
- D - Options up to three alpha/numeric characters which provide a more specific definition of the technical capability of a specific interface, e.g., a "C", combined with the "GS" preceding indicates a Centrex Foreign Exchange termination; and
- E - Levels for certain services, alpha/numeric positions are used to indicate transmit and receive transmission level information, e.g., "Z" indicates that the signal level received at the point of termination from the Telephone Company will be +7.0 dB; and "A" indicates that the signal level to be transmitted to the Telephone Company will be -16.0 dB.

Section 5 - Special Access Service

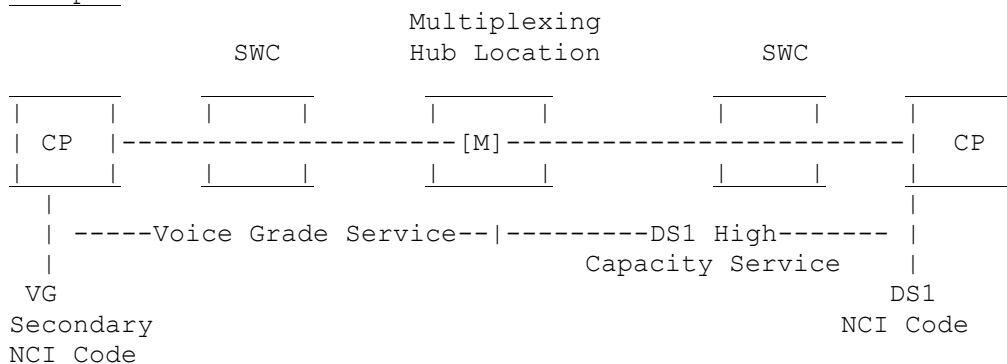
5.6 Special Access Service Network Channel Interface (NCI) Code Information (Cont'd)5.6.2 Network Channel Interface Code Translation Information

A summary of the information required to translate NCI codes is included, by service type, in separate subsections which follow, with the exception of the following transmission level information which is common to more than one service:

<u>Code Level</u>	<u>Code Level</u>	<u>Code Level</u>
A -16 dB	L -6 dB	X +5 dB
B -15	M -5	Y +6
C -14	N -4	Z +7
D -13	P -3	I Fractional levels
E -12	Q -2	O No transmission in this direction (one-way service)
F -11	R -1	Blank Use recommended value shown in the technical reference manual
G -10	S 0.0	
H - 9	T +1	
J - 8	U +2	
K - 7	W +4	

5.6.3 Compatibility

The NCI codes specified for the two ends of a Special Access Service may be different or the same. Furthermore, due to the use of optional central office multiplexing, a Special Access Service may have the NCI code of one service, e.g. Voice Grade, at one point of termination and the NCI code of another service, e.g. DS1 High Capacity, at the other (secondary) point of termination.

Example

Legend: CP - Customer Premises SWC - Serving Wire Center
M - Multiplexing Function

Only certain NCI code combinations are technically compatible. NCI code compatibility information is set forth in the appropriate technical reference publication(s) for the service ordered.

Section 5 - Special Access Service

5.7 Basic Service Descriptions

Voice Grade - a channel for the transmission of analog signals within an approximate bandwidth of 300-3000 Hz.

Video - A channel for the transmission of a standard 525 line/60 field monochrome or National Television Systems Committee signal and one to four associated 5, 15 or 20 KHz audio signal(s).

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56.0 kbps.

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps.

Detailed descriptions of each of the channel types are provided following.

Section 5 - Special Access Service

5.8 Voice Grade Special Access Service5.8.1 Basic Service Description

Voice Grade Service provides a channel for the transmission of analog signals in the nominal frequency range of 300 to 3000 Hz.

Voice Grade Service is provided between customer premises or between a customer premises and a Telephone Company Hub location.

5.8.2 Technical Information

Voice Grade Service is available in accordance with technical information as filed in Section 7 of The Telephone Company Interstate Access Tariff.

5.8.3 Optional Features and FunctionsA. Transmission Enhancement Options

C Conditioning - Provides for the additional control of both attenuation distortion and envelope delay distortion.

Improved Attenuation Distortion - Improved attenuation distortion is provided for additional control of attenuation distortion. The improved attenuation distortion specifications are:

Attenuation Distortion
(Frequency Response)
Relative to 1004 Hz

Frequency Variation	
<u>Range (Hz)</u>	<u>(dB)</u>
404-2804	-1.0 to +2.0
304-3004	-1.0 to +3.0
304-3204	-2.0 to +6.0

Improved Return Loss (Echo Control) - Improved return loss at a four-wire point of termination provides for improved echo control via an upgraded Equal Level Echo Path Loss (ELEPL). Improved return loss at a two-wire point of termination will provide echo control via an upgraded return loss limit. When this option is ordered, Telephone Company equipment may be required at the customer premises.

Section 5 - Special Access Service

5.8 Voice Grade Special Access Service (Cont'd)5.8.3 Optional Features and Functions (Cont'd)A. Transmission Enhancement Options (Cont'd)

Data Capability - Provides for the control of signal to C-notched noise ratio and intermodulation distortion to provide two-point or multipoint transmission characteristics suitable for data communications. When a service equipped with data capability is used for voice transmission, the quality of the voice transmission may not be satisfactory.

Telephoto Capability - Provides for the control of attenuation distortion and envelope delay distortion to provide transmission characteristics suitable for telephotographic communications.

B. Customer Premises Terminating Options

Customer Specified Receive Level - Allows the customer to specify the four-wire receive level at the point of termination within a range.

C. Signaling Capability

Provides the means by which a customer initiates a request for service, holds a connection, or releases a connection. The signaling desired by the customer is specified in the NCI code.

D. Selective Signaling Arrangement

Permits code selective ringing for up to ten stations on a multipoint service.

E. Bridging

Provides the capability of connecting three or more customer premises in a multipoint arrangement at a Telephone Company Hub location on either a two-wire or four-wire basis. The types of bridging available include: Voice, Data, Telephoto, DATAPHONE Select-a-Station, Telemetry and Alarm.

F. Data Station Termination Unit (DST)

Line powered environmental (weather protected) data unit provides 4 wire interface and remote loopback capability at 2713 Hz. Available on VG6 and VG7.

Section 5 - Special Access Service

5.8 Voice Grade Special Access Service (Cont'd)5.8.3 Optional Features and Functions (Cont'd)

The following table shows the optional feature and function availability
(A) for the Voice Grade Service technical specifications packages.

	<u>VG1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>VGC</u>
A. Transmission Enhancements:													
- C Conditioning	-	-	-	-	A	A	A	A	A	A	-	-	A
- Improved Attenuation Distortion	-	-	-	-	A	A	A	A	A	A	-	-	A
- Improved Return Loss													
- At four-wire POT	A	A	A	A	A	A	A	A	A	A	A	A	A
- At two-wire POT	-	A	A	-	-	-	A	-	-	-	-	-	A
- Data Capability	-	-	-	-	-	A	A	-	-	A	-	-	A
- Telephoto Capability	-	-	-	-	-	-	-	-	-	-	A	-	A
B. Certified Carrier Premises Terminating Options:													
- Customer Specified Receive Level	-	A	A	-	-	-	A	A	A	-	-	-	A
C. Signaling Capability													
- Loop-Start	A	A	A	-	-	-	A	A	-	-	-	-	A
- Ground-Start	A	-	A	-	-	-	A	-	-	-	-	-	A
- E&M Lead	-	-	A	-	-	-	A	A	A	-	-	-	A
- Reverse-Battery	-	-	A	-	-	-	A	-	-	-	-	-	A
- Duplex	-	-	A	-	-	-	A	A	A	-	-	-	A
- Single-Frequency	-	A	-	-	-	-	A	A	A	-	-	-	A
- 20-Hz Ringing	-	A	-	-	-	-	-	-	-	-	-	-	A
D. Selective Signaling Arrangement	-	A	-	-	-	-	-	-	-	-	-	-	A
E. Bridging	-	A	-	-	A	A	-	-	-	A	A	A	A
F. PPSN Interface Arrangement	-	-	-	-	-	A	-	-	-	-	-	-	A
G. Data Station Termination Unit (DST)	-	-	-	-	-	A	A	-	-	-	-	-	-

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-20

Section 5 - Special Access Service

5.8 Voice Grade Special Access Service (Cont'd)5.8.4 Rates and Charges

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
A. <u>Channel Termination</u>		
Two-wire, Per point of termination	\$20.00	\$202.90
Four-wire, Per point of termination	\$28.50	\$224.42
B. <u>Channel Mileage</u> - Monthly Rates 1L5XX		
<u>Mileage Bands</u>	<u>Fixed</u>	<u>Per Mile</u>
0	None	None
Over 0	\$19.00	\$1.20
C. <u>Optional Features and Functions</u>		
<u>Transmission Enhancements</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
C Conditioning		
- Per point of termination	\$ 5.23	None
Improved Attenuation Distortion		
- per point of termination	\$ 1.25	None
Improved Return Loss, Two-Wire		
- Per point of termination	\$ 1.54	None
Improved Return Loss, Four-Wire		
- Per point of termination	\$ 1.54	None
Data Capability		
- Per point of termination	\$ 1.18	\$127.31
Telephoto Capability		
- Per point of termination	\$ 7.22	\$129.41

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-21

Section 5 - Special Access Service

5.8 Voice Grade Special Access Service (Cont'd)5.8.4 Rates and Charges (Cont'd)C. Optional Features and Functions (Cont'd)

<u>Customer Premises Terminating Options</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
Customer Specified Receive Level	None	None
Signal Capability - Per point of termination	\$ 1.54	None
++ Insert appropriate two character code to specify the type of signaling, i.e., AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV, or SF		
<u>Bridging</u>		
Voice, Per port		
- Two-Wire	\$ 4.41	None
- Four-Wire	\$ 4.41	None
Data, Per port		
- Two-Wire	\$ 4.41	None
- Four-Wire	\$ 4.41	None
Telephoto, Per port		
- Two-Wire	\$ 4.41	None
- Four-Wire	\$ 4.41	None
<u>DATAPHONE Select-a-Station</u>		
Sequential Arrangement Ports		
- Per two-wire channel connected	ICB	None
- Per four-wire channel connected	ICB	None
Addressable Arrangement Ports		
- Per two-wire channel connected	ICB	None
- Per four-wire channel connected	ICB	None

ICB rates and charges are filed in 5.13.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-22

Section 5 - Special Access Service

5.8 Voice Grade Special Access Service (Cont'd)5.8.4 Rates and Charges (Cont'd)C. Optional Features and Functions (Cont'd)

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
<u>DATAPHONE Select-a-Station</u> (Cont'd)		
Telemetry and Alarm Bridging, Per channel connected		
Active Bridging, Split Band	\$12.49	None
Active Bridging, Summation	\$12.49	None
Passive Bridging	ICB	None
<u>Selective Signaling Arrangement</u> - Per arrangement	ICB	None
Data Station Termination Unit (DST)	\$18.00	None

Section 5 - Special Access Service

5.9 Video Special Access Service5.9.1 Basic Service DescriptionVideo Service

Video service provides a channel for the one-way transmission of a standard 525 line/60 field monochrome, or National Television Systems Committee color, video signal and one or more associated 5, 15 or 20 KHz audio signal(s).

Video service is provided between customer premises or between a customer premises and a Telephone Company Hub location.

- Broadcast Video

Broadcast Video Service is provided at bandwidths of 30 Hz to 6.6 MHz and 30 Hz to 4.5 MHz, and is provided with one to four associated audio signal(s). At the option of the customer, the associated audio signal(s) may either be combined (diplexed) with the video signal or provided as one to four separate channels at the point of interface.

- Digital Video⁽¹⁾ (Grandfathered)

Digital Video service provides for the receipt or hand-off of a one-way baseband or digital video signal at the network interface. The bit rate for digital video service is 45 Mbps. One to four associated audio signal(s) may be provided at 15 or 20 KHz.

Digital Video service is available with two types of channel terminations, TV1D and TVD. The TV1D channel termination provides the customer a baseband network interface for NTSC broadcast quality video input or output, and includes video enabling equipment (CODEC) as part of the network service and may include a fiber optic terminal. The TVD channel termination provides the customer receipt or delivery of digitized video signals to or from the network interface (without CODEC).

Each Digital Video service requires at least one channel termination with video enabling equipment (TV1D) as part of the network service.

5.9.2 Technical Information

Video Services are available in accordance with the technical information as filed in Section 7 of the Telephone Company's Interstate Access Tariff.

Video Service technical specifications, transmission parameters and compatible NCI codes are set forth in Technical Reference TR-TSV-000338.

(1) Effective May 21, 2011, Digital Video service is no longer available to new customers. There is no change for existing customers.

Section 5 - Special Access Service

5.9 Video Special Access Service (Cont'd)5.9.3 Optional Features and FunctionsVideo Switching Arrangements

Video Switching Arrangements allow the customer to switch the connection of their video signals between different end points. The video switch is located in the Telephone Company central office and can be configured to process video connections to and from other channels located on the same or different customer premises. In the case of one-way transmission circuits, one transmit or one receive port of the video switch is required. For two-way transmission circuits, one transmit and one receive port are required. Each customer connected to the video switch is configured for video switching.

The video switch provides customer security within the switch, thereby preventing unauthorized access.

The switch establishes cross connections via a five digit password access code and a standard touchtone telephone located on the customer's premises. Assignment of the switch capability cross connection(s) and the customer's five digit password access code are provided by the Telephone Company. The customer must provide their own standard touchtone telephone and obtain the control circuit from the Telephone company as a separate service.

Video switching arrangements will be provided at video central office locations specified in N.E.C.A. Tariff F.C.C. No. 4.

Video Bridging Arrangement

Video Bridging enables Video Service to be provided in a multipoint configuration.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-25

Section 5 - Special Access Service

5.9 Video Special Access Service (Cont'd)

5.9.4 Rates and Charges

Video Service

	<u>Monthly Rate</u>	<u>Daily Rate</u>	<u>Nonrecurring Charge</u>
A. <u>Channel Terminations</u> - Per Point of Termination			
- <u>Broadcast Video</u>			
	\$400.00	\$200.00	\$250.00
	\$400.00	\$200.00	\$250.00
	\$400.00	\$200.00	\$250.00
	\$400.00	\$200.00	\$250.00
- <u>Digital Video</u> ⁽¹⁾ (<u>Grandfathered</u>)			
	<u>Monthly Rate</u>	<u>Daily Rate</u>	<u>Nonrecurring Charge</u>
TV1D	\$400.00	\$200.00	\$250.00
TVD	\$400.00	\$200.00	\$250.00

B. Channel Mileage - Recurring Rates by Mileage Band

- Broadcast Video

<u>Mileage Bands</u>	<u>Monthly Rate</u>		<u>Daily Rate</u>	
	<u>Fixed</u>	<u>Per Mile</u>	<u>Fixed</u>	<u>Per Mile</u>
0	None	None	None	None
Over 0	\$0.00	\$35.00	\$0.00	\$25.00

- Digital Video

<u>Mileage Bands</u>	<u>Monthly Rate</u>		<u>Daily Rate</u>	
	<u>Fixed</u>	<u>Per Mile</u>	<u>Fixed</u>	<u>Per Mile</u>
0	None	None	None	None
Over 0	\$0.00	\$35.00	\$0.00	\$25.00

(1) Effective May 21, 2011, Digital Video service is no longer available to new customers. There is no change for existing customers.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-26

Section 5 - Special Access Service

5.9 Video Special Access Service (Cont'd)5.9.4 Rates and Charges (Cont'd)C. Optional Features & FunctionsVideo Switching Arrangements

	<u>Daily Rate</u>	<u>Monthly Rate</u>	<u>NRC</u>
- Per Broadcast/Digital Port	\$30.00	\$30.00	None
- Switch Capability			
- per Virtual Switch	\$50.00	\$50.00	None

Video Bridging Arrangement

- Per Broadcast/Digital Port		\$75.00	None

Section 5 - Special Access Service

5.10 Digital Data Special Access Service

5.10.1 Basic Service Description

Digital Data Service provides a channel for duplex four-wire transmission of serial synchronous data with timing provided by the Telephone Company on the received bit stream. The actual bit rate is a function of the channel interface selected by the customer.

Digital Data Service is available via designated Telephone Company Hub locations only and is provided between customer premises or between a customer premises and a designated Telephone Company Hub location.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-28

Section 5 - Special Access Service

5.10 Digital Data Special Access Service (Cont'd)5.10.2 Optional Features and Functions

The following table shows the optional feature and function availability
(A) for the Digital Data Service technical specifications packages:

	<u>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>
Bridging	A	A	A	A
PPSN Interface Arrangement	-	-	A	A
Secondary Channel Capability (SCC)	A	A	A	A

5.10.3 Rates and Charges

	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
A. <u>Channel Termination</u> , Per point of termination		
- DA1 (2.4 kbps)	\$75.00	\$552.47
- DA2 (4.8 kbps)	\$75.00	\$552.47
- DA3 (9.6 kbps)	\$75.00	\$552.47
- DA4 (56.0 kbps)	\$105.00	\$578.81
- DA6 (64.0 kbps)	\$105.00	\$578.81

<u>Optional Payment Plans</u>		<u>1 Year</u>	<u>3 Year</u>	<u>5 Year*</u>	<u>Nonrecurring Charges</u>
- DA4 (56.0 kbps)	T6ECS	\$85.00	\$60.00	\$55.00	\$578.81
- DA6 (64.0 kbps)	T6ECS	\$85.00	\$60.00	\$55.00	\$578.81

B. Channel Mileage - Monthly Rates

	<u>DA1 (2.4 kbps)</u>		<u>DA2 (4.8 kbps)</u>	
<u>Mileage Bands</u>	<u>Fixed</u>	<u>Per Mile</u>	<u>Fixed</u>	<u>Per Mile</u>
0	None	None	None	None
Over 0	\$40.00	\$1.55	\$40.00	\$1.55

	<u>DA3 (9.6 kbps)</u>		<u>DA4 (56.0 kbps)</u>	
<u>Mileage Bands</u>	<u>Fixed</u>	<u>Per Mile</u>	<u>Fixed</u>	<u>Per Mile</u>
0	None	None	None	None
Over 0	\$40.00	\$1.55	\$40.00	\$1.55

	<u>DA6 (64.0 kbps)</u>	
<u>Mileage Bands</u>	<u>Fixed</u>	<u>Per Mile</u>
0	None	None
Over 0	\$40.00	\$1.55

Optional Payment Plans:

	<u>1 Year</u>			
	<u>DA4 (56.0 kbps)</u>		<u>A6 (64.0 kbps)</u>	
<u>Mileage Bands</u>	<u>Fixed</u>	<u>Per Mile</u>	<u>Fixed</u>	<u>Per Mile</u>
0	None	None	None	None
Over 0	\$25.00	\$1.00	\$25.00	\$1.00

* Effective November 9th, 2013, customers may not establish new term plans greater than 36 months and for Optional Payment Plan (OPP) term plans may not be extended for a term greater than 36 months.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-29

Section 5 - Special Access Service

5.10 Digital Data Special Access Service (Cont'd)

5.10.3 Rates and Charges (Cont'd)

B. Channel Mileage - Monthly Rates (Cont'd)

Optional Payment Plans: (Cont'd)

<u>Mileage Bands</u>	<u>DA4 (56.0 kbps)</u>		<u>DA6 (64.0 kbps)</u>	
	<u>Fixed</u>	<u>Per Mile</u>	<u>Fixed</u>	<u>Per Mile</u>
<u>3 Year</u>				
0	None	None	None	None
Over 0	\$15.00	\$0.80	\$15.00	\$0.80
<u>5 Year*</u>				
0	None	None	None	None
Over 0	\$10.00	\$0.70	\$10.00	\$0.70

C. Optional Features and Functions

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
<u>Bridging</u> , Per port	\$27.92	None
<u>PPSN Interface Arrangement</u> , Per arrangement		
9.6 kbps	None	None
56.0 kbps	None	None

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
		<u>Initial</u>	<u>Subsequent</u>
Secondary Channel Capability			
- Per point of termination	\$11.15	\$9.00	\$332.00

* Effective November 9th, 2013, customers may not establish new term plans greater than 36 months and for Optional Payment Plan (OPP) term plans may not be extended for a term greater than 36 months.

Section 5 - Special Access Service

5.11 High Capacity Special Access Service5.11.1 Basic Service Description

High Capacity Service provides a channel for the transmission of isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer.

High Capacity Service is provided between customer premises or between a customer premises and a Telephone Company Hub location. Certain multiplexed channels of High Capacity Service is provided at, or between, Telephone Company Hub locations only.

DS1 service may also be provided as free (unframed) format. This option provides a DS1 signal with electrical characteristics identical to the framed 1.544 Mbps signals for DS1 service with B8ZS, except for the lack of an apparent frame format. This format is not compatible with Telephone Company equipment that requires framing, synchronization, error detection or control information and can only be provided where suitable equipment is available.

The customer may provide High Capacity Service Network Channel Terminating Equipment (NCTE), which is required at the customer premises. The interim program for the interconnection of such equipment is set forth in Technical Reference PUB GR-342-CORE.

5.11.2 Technical Information

An HC1 Service will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the DS1 bit rate through a Channel Service Unit (CSU) designed, manufactured and maintained in conformance with the specifications in Technical Reference PUB 62411. The error-free seconds of the other High Capacity Services are measured at the DS1 bit rate.

High Capacity Service is available in accordance with the technical information as filed in Section 7 of the Telephone Company's Interstate Access Tariff.

Fractional DS1 service allows the transmission of digital signals over a bandwidth of contiguous channels through a common DS1 line interface at transmission speeds of 128 Kbps, 256 Kbps and 384 Kbps. Fractional DS1 service is provided with B8ZS clear channel capability.

44.736 Mbps High Capacity Service is usually provided as follows:

- On digital optical equipment and lightwave facilities selected by the Telephone Company, and it is provided only through serving wire centers equipped to furnish such service.

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.2 Technical Information (Cont'd)

- It is the responsibility of the customer (or any other party in interest, such as the applicant for service or the owner or operator of the premises or the builder) to provide in a manner satisfactory to the Telephone Company, and without cost to the Telephone Company: a means of entrance for the fiber optic cable into the building, space for mounting the necessary terminals and equipment, and, where required, to supply a means to reach each floor and each suite or office on each floor where service is desired. In addition, a suitable AC source must be provided in the customer equipment location.
- 44.736 Mbps High Capacity Service technical parameters are set forth in Technical Reference PUB GR-342-CORE.

The technical specification for High Capacity Service provided to an Expanded Interconnection Location are delineated in Technical Reference Publication GR-342-CORE.

5.11.3 Optional Features and FunctionsMultiplexing

These arrangements use digital time division multiplexing at a Telephone Company Hub location:

- DS4 to DS1 - Converts a DS4 channel to 168 DS1 channels.
- DS3 to DS1 - Converts a DS3 channel to 28 DS1 channels.*
- DS2 to DS1 - Converts a DS2 channel to four DS1 channels.
- DS1C to DS1 - Converts a DS1C channel to two DS1 channels.
- DS1 to Voice - Converts a DS1 channel to 24 channels suitable for Voice Grade, WATS Access Line, Digital Data, or Program Audio Service.**

* A DS1 channel slot of the DS3-DS1 multiplexing arrangement may be used to provision Fractional DS1 service. Fractional DS1 rates will apply from the Telephone Company hub location providing the multiplexing function to the customer premises.

** Fractional DS1 service may be provisioned on a multiplexed DS1 service if the required capacity exists on contiguous spare channels of the DS1 service. The DS1 service must have B8ZS Clear Channel Capability. The customer must provide the Connecting Facility Assignments (CFA) on the Access Service Request (ASR) for the Fractional DS1 service. Fractional DS1 rates will apply from the Telephone Company hub location providing the multiplexing function to the customer premises.

If an existing DS1 service is multiplexed utilizing D4 channel bank equipment, it is incompatible with Fractional DS1 service provisioning. If the customer desires to use such an existing DS1 service to provision Fractional DS1 service, a DS1 rearrangement charge will apply (as specified in 2.11.4D) to rearrange the DS1 to central office equipment, which is compatible with Fractional DS1 provisioning.

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.3 Optional Features and Functions (Cont'd)

DS1 to DS0 - Converts a DS1 channel to a maximum of 24 DS0 (64.0 kbps) channels to connect to other such channels at the same or different designated Telephone Company Digital Hub. The actual number of DS0 channels is a function of the facility utilized to provide service. The customer must provide digital transmission system and channel assignment data for such applications.

DS0 to Subrate - Converts a DS0 channel to subrate channels (twenty 2.4 kbps, ten 4.8 kbps, or five 9.6 kbps) to connect to other such channels at the same or different designated Telephone Company Digital Hub. The customer must provide system and channel assignment data for such applications.

Shared Network Arrangement

A Shared Network Arrangement is a service offering that enables a customer (the "Service User") to connect subtending services to a Telephone Company multiplexed Special Access DS3 or DS1 service of another customer (the "Host Subscriber"). The Telephone Company will maintain separate records and billing for each customer. Each customer will be billed for those rate elements associated with their own portion of the service configuration. Under no circumstances will the rates or charges for individual rate elements be split. This offering is limited to service configurations where a Service User obtains either subtending Voice Grade Special Access or Digital Data Special Access circuits from a Host's multiplexed DS1 service, Special Access DS1 or Fractional DS1 circuits from a Host's multiplexed DS3 service.

Under the Shared Network Arrangement, the Telephone Company may share record information with the Host Subscriber pertaining to the services of other users of the shared network. Such disclosure will be under the sole discretion of the Telephone Company as is necessary to perform billing reconciliations and/or other functions required in connection with maintaining account records.

Each customer entering into a Shared Network Arrangement is solely responsible to the Telephone Company for charges associated with that customer's portion of the shared network. Disconnection of service by the Host Subscriber does not relieve another user of the network of any obligation to pay access charges associated with the portion of the shared network to which that user subscribes. Billing for services and facilities will continue until a disconnect request from the Service User has been received by the Telephone Company. The Host Subscriber is solely responsible for notifying the connecting Service User in the event of disconnection of the Host service, which affects that portion of the shared network service to which the Service User has subscribed.

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.3 Optional Features and Functions (Cont'd)Shared Network Arrangement (Cont'd)

For administrative purposes, one "Arrangement" under the Shared Network Arrangement offering shall be limited to the agreement between one Host Subscriber and one Service User permitting the Service User to connect a specified number of subtending circuits to one specified multiplexer on the Host's service. Agreements between one Host Subscriber and two (or three, etc.) Service Users shall be deemed to comprise two (or three, etc., respectively) separate Arrangements. However, an agreement to expand the scope of an existing Arrangement by subsequently increasing the number of subtending circuits on the same multiplexer shall not constitute a new or separate Arrangement.

A Shared Network Arrangement shall be established between a Host Subscriber and a Service User upon the completion of the service order for the first circuit(s) in the arrangement. No Shared Network Arrangement shall be deemed to be in effect until at least one subtending circuit has been installed for the Service User. A Shared Network Arrangement shall be deemed cancelled when the last subtending circuit has been disconnected.

A Processing Charge will apply for handling each service order in a Shared Network Arrangement when a Service User orders a subtending circuit(s) to be connected to a Host Subscriber's multiplexed service. The Processing Charge is contained in Section 5.11.4 C and applies in addition to all other applicable rates and charges.

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.3 Optional Features and Functions (Cont'd)Enhanced Access Diversity (EAD)

Enhanced Access Diversity (EAD) is an optional feature of DS1 and DS3 service, which provides a choice of three levels of diversity. Diversity is provided on transmission facilities for two or more DS1 or DS3 services over two different physical routes. Customers subscribing to the EAD option will be provided a report on a quarterly basis which identifies the routing of each service in the diverse grouping. EAD is offered using existing physically diverse facilities. If diverse facilities are not available, EAD may be provided pursuant to the Telephone Company's Special Construction Tariff F.C.C. No. 7.

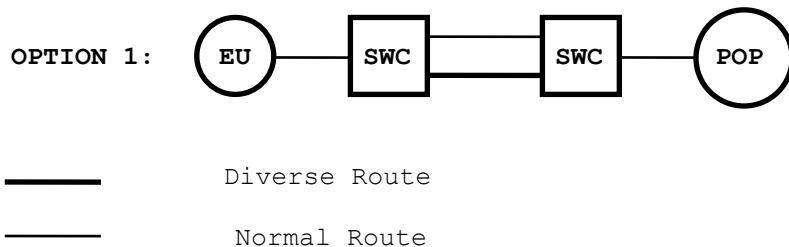
The customer must identify the services which will be diverse when placing orders for EAD. The customer must also provide all appropriate connecting facility assignments (CFA) and any other pertinent information which will allow the Telephone Company to provide and maintain EAD. EAD is provided on a per DS1 or DS3 basis only, and the rates for EAD are in addition to the rates for DS1 and DS3 Special Access service.

The three levels of diversity offered are described below:

Option 1

Option 1 provides interoffice facility diversity between serving wire centers only. This offering utilizes existing physically diverse interoffice facilities, excluding equipment and facilities located in a serving wire center extending to the first manhole located outside the serving wire center.

Example:

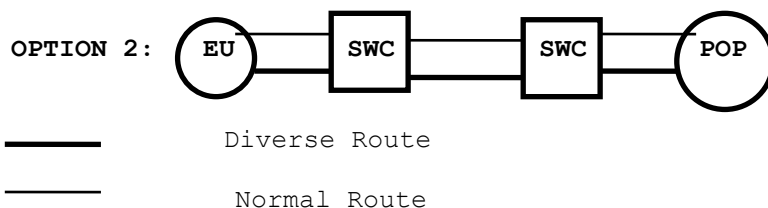


Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.3 Optional Features and Functions (Cont'd)Enhanced Access Diversity (EAD) (Cont'd)Option 2

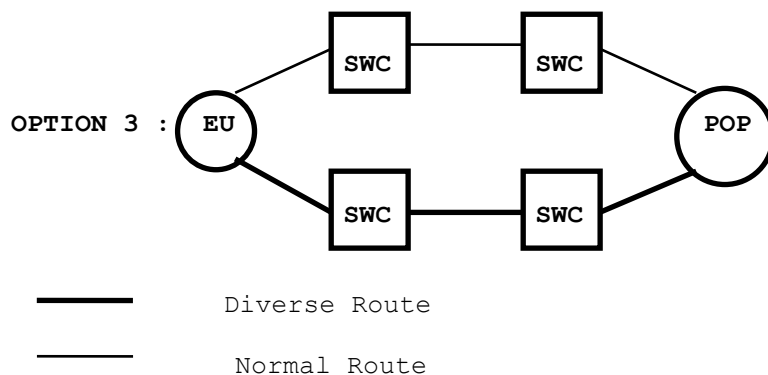
Option 2 provides local loop and interoffice facility diversity between serving wire centers. This offering utilizes existing physically diverse local loop and interoffice facilities, excluding equipment and facilities located in a serving wire center extending to the first manhole outside the serving wire center, or from the point of termination to the first manhole outside the customer premises. This option provides diversity between two customer premises or between a customer premises and a Telephone Company Hub.

Example:

Option 3

Option 3 provides end-to-end diversity, including local loop and interoffice facilities. In this offering diverse local loop facilities from the customer's premises to a wire center other than the customer's normal serving wire center must already exist. Existing diverse interoffice facilities must also be available between the serving wire centers. Interoffice mileage will be charged between the serving wire centers where the local loops actually terminate. This option provides diversity between two customer premises or between a customer premises and a Telephone Company Hub.

Example:



Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.3 Optional Features and Functions (Cont'd)Clear Channel Capability (CCC)

- (a) CCC is an arrangement that allows a customer to transport 1.536 Mbps information rate signals over a 1.544 Mbps High Capacity channel with no constraint on the quantity or sequence of ones (mark) and zero (space) bits. This arrangement requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code as described in Technical Reference TR-NPL-000054 and TR-INS-000342.
- (b) CCC is provided on 1.544 Mbps High Capacity channels between two customer designated premises or between a customer designated premises and a Telephone Company multiplexing hub and is subject to the availability of facilities.
- (c) The optional feature may be ordered at the same time the High Capacity service is ordered or it may be ordered as an addition to an existing High Capacity service. Customers must agree to out-of-service periods required to add this feature to an existing High Capacity service.

The following table shows the optional features and functions availability (A) for High Capacity Service:

	<u>HC0</u>	<u>HC1</u>	<u>HC1C</u>	<u>HC2</u>	<u>HC3</u>	<u>HC4</u>
<u>Central Office Multiplexing</u>						
DS4 to DS1	-	-	-	-	-	A
DS3 to DS1	-	-	-	-	A	-
DS2 to DS1	-	-	-	A	-	-
DS1C to DS1	-	-	A	-	-	-
DS1 to Voice	-	A	-	-	-	-
DS1 to DS0	-	A	-	-	-	-
DS0 to Subrate*	A	-	-	-	-	-
<u>Shared Network Arrangement</u>	-	A	-	-	A	-
<u>Clear Channel Capability (B8ZS)</u>	-	A	-	-	A	-
<u>Enhanced Access Diversity (EAD)</u>	-	A	-	-	A	-

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

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.4 Rates and Charges

This section contains the specific regulations governing the rates and charges, which apply to High Capacity Services. DS3 High Capacity Service is available under a month-to-month*, one, three or five-year** billing period as described in 5.11.4(A), following.

DS1 and DS3 Services are subject to zone pricing. Each of the Telephone Company's central offices has been assigned to one of three pricing zones pursuant to the Telephone Company's zone pricing plan approved by the Federal Communications Commission November 30, 1993. The pricing zone for each central office is identified in NECA FCC Tariff No. 4.

(A) DS3 High Capacity Service Rate DescriptionMonthly Extension Rates

Monthly extension rates are charges that the customer may elect to be converted to at the end of their 1, 3 or 5**-year billing period, until a new billing period is selected or service is disconnected. Monthly extension rates are only available once the term plan has expired.

(1) DS3 High Capacity Service Billing Period

The billing period establishes the amount of time that rates for a service are stabilized by the Telephone Company.

The following billing periods are available for DS3 High Capacity Services and associated optional features and functions:

- Month-to-Month*
- Monthly Extension Rate
- 1 Year
- 3 Year
- 5 Year**

At the expiration of the billing period, the customer will have the option of subscribing to one of the following options:

- a. Elect to renew the service for a new 1, 3 or 5** year billing period, at rates and charges currently in effect.
- b. Elect to be converted to monthly extension rates.
- c. Elect to disconnect the service upon expiration of the billing period.

* This option will no longer be available for new circuits provisioned on or after October 6, 2004. There will be no change to existing circuits.

** Effective November 9th, 2013, customers may not establish new term plans greater than 36 months for DS3 High Capacity Service and term plans may not be renewed for a term greater than 36 months.

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.4 Rates and Charges General Description (Cont'd)(A) DS3 High Capacity Service Rate Description (Cont'd)(1) DS3 High Capacity Service Billing Period (Cont'd)

If the customer does not choose one of the preceding options prior to the expiration date of the commitment period, monthly extension rates will be applied upon expiration of the commitment period.

Option (a) as described preceding is available to customers if the term plans remain in effect and are not grandfathered. If the term plans are grandfathered and the service expires, absent customer notification, the customer's expired service term will be converted to monthly extension rates upon expiration.

Nonrecurring charges are not applicable for services renewed, as long as the same number of DS3s are renewed. Any change in the number of DS3s will incur the appropriate nonrecurring charges.

The customer must provide the Telephone Company with a written notice of intent to extend the DS3 billing period no later than one month prior to the expiration of the service period.

An existing DS3 under a 1 or 3 year billing period may be converted to a DS3 under a longer term 3 or 5* year billing period without termination liabilities, provided that:

- a. the expiration date for the new term agreement is beyond the end of the original term agreement,
- b. the converted DS3 must be based upon the prevailing rates,
- c. the customer maintains the same or greater number of DS3 circuits under the new billing period, and
- d. No lapse in service occurs.

* Effective November 9th, 2013, customers may not establish new term plans greater than 36 months for DS3 High Capacity Service and term plans may not be renewed or extended for a term greater than 36 months.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-39

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.4 Rates and Charges

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
A. <u>Standard Channel Termination</u> Per point of termination		
DS1 (1.544 Mbps)† Zone 1	\$160.00	\$612.75
Zone 2	\$170.00	\$612.75
Zone 3	\$180.00	\$612.75
Grandfathered OPP**	\$170.00	\$612.75
- Retermination to Expanded Interconnection DS1 cross-connect	N/A	\$189.00
Fractional DS1 (128 Kbps)		
Zone 1	\$120.00	\$612.75
Zone 2	\$120.00	\$612.75
Zone 3	\$120.00	\$612.75
Fractional DS1 (256 Kbps)		
Zone 1	\$130.00	\$612.75
Zone 2	\$130.00	\$612.75
Zone 3	\$130.00	\$612.75
Fractional DS1 (384 Kbps)		
Zone 1	\$140.00	\$612.75
Zone 2	\$140.00	\$612.75
Zone 3	\$140.00	\$612.75
	<u>1 Yr Plan*</u>	
Fractional DS1 (128 Kbps)		
Zone 1	\$114.00	\$612.75
Zone 2	\$114.00	\$612.75
Zone 3	\$114.00	\$612.75
Fractional DS1 (256 Kbps)		
Zone 1	\$124.00	\$612.75
Zone 2	\$124.00	\$612.75
Zone 3	\$124.00	\$612.75

ICB Rates and Charges are filed in Section 5.13.

* Rate regulations applicable to the Optional Payment Plans are defined in Section 2.11.1.1.

** Rate Regulations for Grandfathered OPP rates in Section 2.11.1.1 (H) apply until the term expires, or the rate equals or exceeds Zone 2 rates.

† DS1 Optional Payment Plan 1, 3 and 5 year rates are calculated as a percentage discount of the monthly rate as specified in Section 2.11.1.1A(2).*

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-40

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.4 Rates and ChargesA. Standard Channel Termination (Cont'd)
Per point of termination (Cont'd)

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
	<u>1 Yr Plan*</u>	
Fractional DS1 (384 Kbps)		
Zone 1	\$133.00	\$612.75
Zone 2	\$133.00	\$612.75
Zone 3	\$133.00	\$612.75
	<u>3 Yr Plan*</u>	
Fractional DS1 (128 Kbps)		
Zone 1	\$108.00	\$612.75
Zone 2	\$108.00	\$612.75
Zone 3	\$108.00	\$612.75
Fractional DS1 (256 Kbps)		
Zone 1	\$117.00	\$612.75
Zone 2	\$117.00	\$612.75
Zone 3	\$117.00	\$612.75
Fractional DS1 (384 Kbps)		
Zone 1	\$126.00	\$612.75
Zone 2	\$126.00	\$612.75
Zone 3	\$126.00	\$612.75
	<u>5 Yr Plan*+</u>	
Fractional DS1 (128 Kbps)		
Zone 1	\$102.00	\$612.75
Zone 2	\$102.00	\$612.75
Zone 3	\$102.00	\$612.75
Fractional DS1 (256 Kbps)		
Zone 1	\$111.00	\$612.75
Zone 2	\$111.00	\$612.75
Zone 3	\$111.00	\$612.75

* Rate regulations applicable to the Optional Payment Plans are defined in Section 2.11.1.1.

+ Effective November 9th, 2013, customers may not establish new term plans greater than 36 months for High Capacity Service and term plans may not be renewed or extended for a term greater than 36 months.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-41

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.4 Rates and Charges (Cont'd)A. Standard Channel Termination (Cont'd)

Per point of termination (Cont'd)

		<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
		<u>5 YR Plan**</u>	
Fractional DS1 (384 Kbps)			
	Zone 1		\$119.00
\$612.75			
	Zone 2	\$119.00	\$612.75
	Zone 3	\$119.00	\$612.75
DS1C (3.152 Mbps)		ICS	ICB
DS2 (6.312 Mbps)		ICS	ICB
DS3 (44.736 Mbps)			
		<u>Monthly Rate (***)</u>	<u>Nonrecurring Charge</u>
DS3 (44.736 Mbps)	Zone 1	\$2,700.00	\$1,775.37
	Zone 2	\$2,800.00	\$1,775.37
	Zone 3	\$2,900.00	\$1,775.37
		<u>Monthly Extension</u>	
DS3 (44.736 Mbps)	Zone 1	\$2,700.00	
	Zone 2	\$2,800.00	
	Zone 3	\$2,900.00	
		<u>1 YR Plan</u>	
DS3 (44.736 Mbps)	Zone 1	\$2,300.00	\$1,775.37
	Zone 2	\$2,400.00	\$1,775.37
	Zone 3	\$2,500.00	\$1,775.37
		<u>3 YR Plan**</u>	
DS3 (44.736 Mbps)	Zone 1	\$1,050.00	\$1,775.37
	Zone 2	\$1,100.00	\$1,775.37
	Zone 3	\$1,150.00	\$1,775.37
	Grandfathered OPP†	\$1,150.00	\$1,775.37

** Rate regulations applicable to the three and five year Optional Payment Plans are defined in Section 2.11.1.1.

*** This option will no longer be available for new circuits provisioned on or after, October 6, 2004. There will be no change to existing circuits.

† Rate Regulations for Grandfathered OPP rates in Section 2.11.1.1 (H) apply until the term expires, or the rate equals or exceeds Zone 2 rates.

+ Effective November 9th, 2013, customers may not establish new term plans greater than 36 months for High Capacity Service and term plans may not be renewed or extended for a term greater than 36 months.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-42

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.4 Rates and Charges (Cont'd)A. Standard Channel Termination (Cont'd)

Per point of termination (Cont'd)

		<u>Monthly Rate (***)</u>	<u>Nonrecurring Charge</u>
		<u>5 YR Plan***</u>	
DS3 (44.736 Mbps)	Zone 1	\$925.00	\$1,775.37
	Zone 2	\$975.00	\$1,775.37
	Zone 3	\$1,000.00	\$1,775.37
	Grandfathered OPP†	\$1,025.00	\$1,775.37
		<u>Monthly</u>	
- Retermination to Expanded	NRBK3	N/A	\$ 242.00
Interconnection DS3cross-connect			

** Rate regulations applicable to the three and five year Optional Payment Plans are defined in Section 2.11.1.1.

*** This option will no longer be available for new circuits provisioned on or after, October 6, 2004. There will be no change to existing circuits.

+ Effective November 9th, 2013, customers may not establish new term plans greater than 36 months for High Capacity Service and term plans may not be renewed for a term greater than 36 months.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-43

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)

5.11.4 Rates and Charges (Cont'd)

A. Standard Channel Termination (Cont'd) Per point of termination

		<u>Nonrecurring Charge</u>
Rollover Charges:		
Per DS1 rearrangement*		
	Zone 1	\$122.18
	Zone 2	\$122.18
	Zone 3	\$122.18
Per DS3 rearrangement		
	Zone 1	\$185.00
	Zone 2	\$185.00
	Zone 3	\$185.00
	<u>Monthly</u>	<u>Nonrecurring Charge</u>
DS4 (274.176 Mbps)	ICB	ICB

* If a test of DS0 circuits, which are connected to the DS1 is requested at the time of rollover then a rearrangement charge per DS0 circuit tested will apply in addition to this charge as specified in 2.11.4.

ICB rates and charges are filed in Section 5.13.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-44

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)

5.11.4 Rates and Charges (Cont'd)

B. Channel Mileage - (Cont'd)

DS1* (1.544 Mbps) Monthly Rates

	<u>Mileage Bands</u>	<u>Fixed</u>	<u>Per Mile</u>
Zone 1	0 None Over 0	None \$70.00	 \$17.50
Zone 2	0 None Over 0	None \$78.00	 \$19.50
Zone 3	0 None Over 0	None \$82.35	 \$20.00
Grandfathered OPP**	0 None Over 0	None \$76.90	 \$18.60

	<u>Mileage Bands</u>	<u>Monthly Fixed</u>	<u>Per Mile</u>
Fractional DS1 (128Kbps)			
Zone 1	0 Over 0	None 75.00	None 9.50
Zone 2	0 Over 0	None 75.00	None 9.50
Zone 3	0 Over 0	None 75.00	None 9.50

Fractional DS1 (256Kbps)			
Zone 1	0 Over 0	None 75.00	None 13.30
Zone 2	0 Over 0	None 75.00	None 13.30
Zone 3	0 Over 0	None 75.00	None 13.30

Fractional DS1 (384Kbps)			
Zone 1	0 Over 0	None 75.00	None 17.10
Zone 2	0 Over 0	None 75.00	None 17.10
Zone 3	0 Over 0	None 75.00	None 17.10

* DS1 Optional Payment Plan 1, 3 and 5*** year rates are calculated as a percentage discount of the monthly rate as specified in Section 2.11.1.1A(2). Rate regulations applicable to the Optional Payment Plans are defined in Section 2.11.1.1.

** Rate Regulations for Grandfathered OPP rates in Section 2.11.1.1 (H) apply until the term expires, or the rate equals or exceeds Zone 2 rates.

***Effective November 9th, 2013, customers may not establish new term plans greater than 36 months for High Capacity Service and term plans may not be renewed for a term greater than 36 months.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-45

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.4 Rates and Charges (Cont'd)B. Channel Mileage - Fractional DS1 - (Cont'd)

		<u>1 Yr Plan*</u>	
<u>Fractional DS1 (128Kbps)</u>	<u>Mileage Bands</u>	<u>Fixed</u>	<u>Per Mile</u>
Zone 1	0	None	None
	Over 0	72.00	8.55
Zone 2	0	None	None
	Over 0	72.00	8.55
Zone 3	0	None	None
	Over 0	72.00	8.55
<u>Fractional DS1 (256Kbps)</u>			
Zone 1	0	None	None
	Over 0	72.00	12.35
Zone 2	0	None	None
	Over 0	72.00	12.35
Zone 3	0	None	None
	Over 0	72.00	12.35
<u>Fractional DS1 (384Kbps)</u>			
Zone 1	0	None	None
	Over 0	72.00	16.15
Zone 2	0	None	None
	Over 0	72.00	16.15
Zone 3	0	None	None
	Over 0	72.00	16.15
		<u>3 Yr Plan*</u>	
<u>Fractional DS1 (128Kbps)</u>	<u>Fixed</u>	<u>Per Mile</u>	
Zone 1	0	None	None
	Over 0	67.00	7.60
Zone 2	0	None	None
	Over 0	67.00	7.60
Zone 3	0	None	None
	Over 0	67.00	7.60
<u>Fractional DS1 (256Kbps)</u>			
Zone 1	0	None	None
	Over 0	67.00	11.40
Zone 2	0	None	None
	Over 0	67.00	11.40
Zone 3	0	None	None
	Over 0	67.00	11.40

* Rate regulations applicable to the Optional Payment Plans are defined in Section 2.11.1.1.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-46

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.4 Rates and Charges (Cont'd)B. Channel Mileage - Fractional DS1 - (Cont'd)

		<u>3 Yr Plan*</u>	
<u>Fractional DS1 (384Kbps)</u>	<u>Mileage Bands</u>	<u>Fixed</u>	<u>Per Mile</u>
Zone 1	0	None	None
	Over 0	67.00	15.20
Zone 2	0	None	None
	Over 0	67.00	15.20
Zone 3	0	None	None
	Over 0	67.00	15.20
		<u>5 Yr Plan*±</u>	
<u>Fractional DS1 (128Kbps)</u>	<u>Fixed</u>	<u>Per Mile</u>	
Zone 1	0	None	None
	Over 0	64.00	6.65
Zone 2	0	None	None
	Over 0	64.00	6.65
Zone 3	0	None	None
	Over 0	64.00	6.65
<u>Fractional DS1 (256Kbps)</u>			
Zone 1	0	None	None
	Over 0	64.00	10.45
Zone 2	0	None	None
	Over 0	64.00	10.45
Zone 3	0	None	None
	Over 0	64.00	10.45
<u>Fractional DS1 (384Kbps)</u>			
Zone 1	0	None	None
	Over 0	64.00	14.25
Zone 2	0	None	None
	Over 0	64.00	14.25
Zone 3	0	None	None
	Over 0	64.00	14.25
DS1C (3.152 Mbps)		ICB	ICB
DS1C (6.312 Mbps)		ICB	ICB

* Rate regulations applicable to the Optional Payment Plans are defined in Section 2.11.1.1

± Effective November 9th, 2013, customers may not establish new term plans greater than 36 months for High Capacity Service and term plans may not be renewed for a term greater than 36 months.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-47

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.4 Rates and Charges (Cont'd)B. Channel Mileage (Cont'd)

DS3 (44.736 Mbps) - Zone 1

		Fixed			Per Mile		
		Monthly*	Monthly Extension	1 YR Plan	Monthly Rate*	Monthly Extension	1 YR Plan
	0	None	None	None	None	None	None
Over	0	\$800.00	\$800.00	\$650.00	\$100.00	\$100.00	\$70.00
		3 YR** Plan	5 YR**± Plan		3 YR** Plan	5 YR**± Plan	
	0	None	None		None	None	
Over	0	\$500.00	\$450.00		\$60.00	\$35.00	

DS3 (44.736 Mbps) - Zone 2

		Fixed			Per Mile		
		Monthly*	Monthly Extension	1 YR Plan	Monthly Rate*	Monthly Extension	1 YR Plan
	0	None	None	None	None	None	None
Over	0	\$850.00	\$850.00	\$700.00	\$105.00	\$105.00	\$75.00
		3 YR** Plan	5 YR**± Plan		3 YR** Monthly*	5 YR**± Plan	
	0	None	None		None	None	
Over	0	\$525.00	\$475.00		\$65.00	\$40.00	

DS3 (44.736 Mbps) - Zone 3

		Fixed			Per Mile		
		Monthly*	Monthly Extension	1 YR Plan	Monthly Rate*	Monthly Extension	1 YR Plan
	0	None	None	None	None	None	None
Over	0	\$900.00	\$900.00	\$750.00	\$110.00	\$110.00	\$80.00
		3 YR** Plan	5 YR**± Plan		3 YR** Monthly*	5 YR**± Plan	
	0	None	None		None	None	
Over	0	\$550.00	\$500.00		\$70.00	\$45.00	

* This option will no longer be available for new circuits provisioned on or after October 6, 2004. There will be no change to existing circuits.

** Rate regulations applicable to the three and five year Optional Payment Plans are defined in Section 2.11.1.1.

± Effective November 9th, 2013, customers may not establish new term plans greater than 36 months for High Capacity Service and term plans may not be renewed for a term greater than 36 months.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-48

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)

5.11.4 Rates and Charges (Cont'd)

B. Channel Mileage (Cont'd)

DS3 (44.736 Mbps) - Grandfathered OPP†

		<u>Fixed</u>		<u>Per Mile</u>		
		<u>3 YR**</u>	<u>5 YR**±</u>	<u>3 YR**</u>	<u>5 YR**±</u>	
		<u>Plan</u>	<u>Plan</u>	<u>Plan</u>	<u>Plan</u>	
0	<u>Monthly*</u>	None	None	None	None	None
Over 0	None	\$600.00	\$550.00	None	\$75.00	\$45.00

		<u>Fixed</u>	<u>Per Mile</u>
		ICB	ICB
DS4 (274.176 Mbps)			

* Minimum period of twelve months applies as specified in Section 2.10.1 D.

** Rate regulations applicable to the three and five year Optional Payment Plans are defined in Section 2.11.1.1.

† Rate Regulations for Grandfathered OPP rates in Section 22.11.1.1 (H) apply until the term expires, or the rate equals or exceeds Zone 2 rates.

± Effective November 9th, 2013, customers may not establish new term plans greater than 36 months for High Capacity Service and term plans may not be renewed for a term greater than 36 months.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-49

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.4 Rates and Charges (Cont'd)C. Optional Features and Functions

<u>Multiplexing</u> Per arrangement	<u>Monthly</u> <u>Rate</u>	
	<u>Monthly</u> <u>Rate</u>	<u>Nonrecurring</u> <u>Charge</u>
DS4 to DS1	ICB	None
DS3 to DS1	<u>Monthly</u> <u>Rate***</u>	
Zone 1	\$800.00	None
Zone 2	\$850.00	None
Zone 3	\$900.00	None
DS3 to DS1	<u>Monthly</u> <u>Extension</u>	
Zone 1	\$800.00	None
Zone 2	\$850.00	None
Zone 3	\$900.00	None
DS3 to DS1	<u>1 Year Plan</u>	
Zone 1	\$650.00	None
Zone 2	\$700.00	None
Zone 3	\$750.00	None
	<u>3 Year Plan**</u>	
Zone 1	\$500.00	None
Zone 2	\$525.00	None
Zone 3	\$550.00	None
Grandfathered†	\$517.00	None
	<u>5 Year Plan**±</u>	
Zone 1	\$450.00	None
Zone 2	\$475.00	None
Zone 3	\$500.00	None
Grandfathered †	\$507.00	None

* Minimum period of twelve months applies as specified in Section 2.10.1D.

** Rate regulations applicable to the three and five year Optional Payment Plans are defined in Section 2.11.1.1.

† Rate Regulations for Grandfathered OPP rates in Section 2.11.1.1 (H) apply until the term expires, or the rate equals or exceeds Zone 2 rates.

*** This option will no longer be available for new circuits provisioned on or after October 6, 2004. There will be no change to existing circuits.

± Effective November 9th, 2013, customers may not establish new term plans greater than 36 months for High Capacity Service and term plans may not be renewed for a term greater than 36 months.

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.4 Rates and Charges (Cont'd)C. Optional Features and Functions (Cont'd)Multiplexing (Cont'd)

Per arrangement

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
DS2 to DS1	ICB	None
DS1C to DS1	ICB	None
DS1 to Voice*†		
Zone 1	\$205.00	None
Zone 2	\$205.00	None
Zone 3	\$205.00	None
Grandfathered **	\$205.00	None

* A channel of this DS1 to the Hub can be used for a Digital Data or Program Audio Service.

† DS1 Optional Payment Plan 1, 3 and 5± year rates are calculated as a percentage discount of the monthly rate as specified in Section 2.11.1.1A(2). Rate regulations applicable to the Optional Payment Plans are defined in Section 2.11.1.1.

** Rate Regulations for Grandfathered OPP rates in Section 22.11.1.1 (H) apply until the term expires, or the rate equals or exceeds Zone 2 rates.

± Effective November 9th, 2013, customers may not establish new term plans greater than 36 months for High Capacity Service and term plans may not be renewed for a term greater than 36 months.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-51

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)5.11.4 Rates and Charges (Cont'd)C. Optional Features and Functions (Cont'd)

<u>Shared Network Arrangement</u>			<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
-Processing Charge per Service Order			None	\$56.48
 <u>Clear Channel Capability</u>				
- Per 1.544 Mbps High Capacity Service				
- Installed coincident with the initial installation of service				
Zone 1			None	None
Zone 2			None	None
Zone 3			None	None
- Installed subsequent to the installation of service				
Zone 1			None	\$250.35
Zone 2			None	\$250.35
Zone 3			None	\$250.35
 <u>Enhanced Access Diversity EAD</u>				
DS1	Option 1	-Zone 1	\$12.00	None
		-Zone 2	\$12.00	None
		-Zone 3	\$12.00	None
DS1	Option 2	-Zone 1	\$12.00	None
		-Zone 2	\$12.00	None
		-Zone 3	\$12.00	None
DS1	Option 3	-Zone 1	\$12.00	None
		-Zone 2	\$12.00	None
		-Zone 3	\$12.00	None

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 5-52

Section 5 - Special Access Service

5.11 High Capacity Special Access Service (Cont'd)

5.11.4 Rates and Charges (Cont'd)

C. Optional Features and Functions (Cont'd)

Enhanced Access Diversity EAD (Cont'd)

			<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
DS3	Option 1	- Zone 1	\$12.00	None
		- Zone 2	\$12.00	None
		- Zone 3	\$12.00	None
DS3	Option 2	- Zone 1	\$12.00	None
		- Zone 2	\$12.00	None
		- Zone 3	\$12.00	None
DS3	Option 3	- Zone 1	\$12.00	None
		- Zone 2	\$12.00	None
		- Zone 3	\$12.00	None

5.11.5 Individual Case Basis Filings

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

<u>Case No</u>	<u>Customer</u>	<u>Description</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered

(D)

5.12.1 General Description

1G Dedicated Ethernet is a fiber based point-to-point gigabit Ethernet service that allows customers to transport data signals between local area networks (LANs). 1G Dedicated Ethernet transports data signals at the rate of 1 gigabit per second (Gbps). All basic service configurations provide a single direction of transmission.

The following regulations will apply to 1G Dedicated Ethernet:

- (1) This service is available to customers in the LATA served by and within the Telephone Company's service territory only.
- (2) If existing facilities do not exist, Special Construction will apply.
- (3) The Telephone Company considers a service interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this tariff in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer. An interruption period starts when a customer reports an inoperative service to the Telephone Company and the Telephone Company confirms that continuity has been lost, and ends when the service is operative.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)

(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd) (D)5.12.1 General Description (Cont'd)

Service Provisioning

- (a) The customer provided equipment (CPE) must deliver the data signals for 1G Dedicated Ethernet transport for the subscribed data service.
- (b) 1G Dedicated Ethernet provides physical layer transport only. The Telephone Company assumes no responsibility for the through transmission of signals generated by the CPE, for the signals by the CPE, or address signaling to the extent the CPE performs addressing. Error detection and correction of data generated by the CPE is the customer's responsibility.

5.12.2 Channel Configuration

There are six (6) basic rate elements which apply to 1G Dedicated Ethernet service:

A. Local Distribution Channel (LDC)

Local Distribution Channel (same as Channel Termination) is the termination of 1G Dedicated Ethernet at a customer designated premise (node), as described in Section 5.4.1.

- 1) the termination for the fiber optic facilities at each node and its serving wire center.
- (2) the fiber optic facility between each node and its serving wire center.

B. Interoffice Mileage

Interoffice Transport facilities, which provide the transmission path between serving wire centers associated with two customer designated premises, are comprised of Fixed and Per Mile rate elements.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd)

(D)

5.12.2 Channel Configuration (Cont'd)

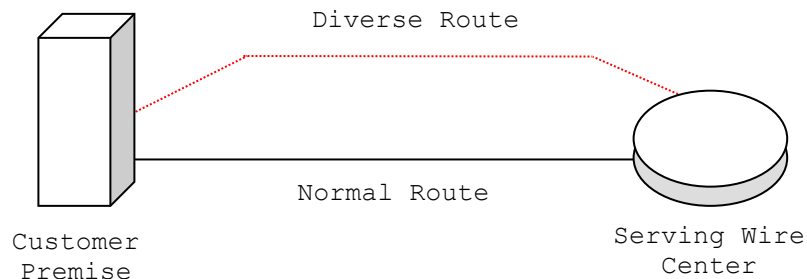
(C) Repeater

Repeaters (Circuit Regenerators) provide essential detection and retransmission of 1G Dedicated Ethernet signals. Repeaters are provided as required by the Telephone Company when actual fiber facility loss between customer designed premises and/or central office locations exceed design limits. Repeaters will be located exclusively in Telephone Company central offices and are required for each successive transport segment of approximately 21.4db.

When protection options are ordered, as set forth in Section 5.12.13(C)(4) following, additional repeaters may be necessary on the protected path as determined by the Telephone Company. The Repeater rate element will be applied to a protected circuit per fiber pair.

(D) Local Channel Diversity

Local Channel Diversity provides for a transmission path between a designated customer premises and the standard service wire center (SWC) that is diverse from the normal/standard transmission path. With this arrangement, one or more local distribution channels will be provisioned over the standard route and one or more local distribution channels will be provisioned over the diverse route. Local channel diversity does not provide for all diversity; it only allows for diversity from the splice point closest to the customer's property line to the SWC. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premise, at the customer's expense.



¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)

(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd)

(D)

5.12.2 Channel Configuration (Cont'd)

(E) Inter-Wire Center (IWC) Diversity

Inter-Wire Center (IWC) Diversity arrangements presume that each end of a 1G Dedicated Ethernet local distribution channel is serviced out of a different serving wire center (SWC). This arrangement provides a transmission path for 1G Dedicated Ethernet local distribution channels between the customer's designated SWC and the SWC at the distant end of the circuit over a transmission path that is separate from the standard transmission path between the two wire centers. IWC diversity does not provide for full diversity. It only offers interoffice diversity. If a customer desires full diversity, Alternate Wire Center Diversity must be implemented along with IWC Diversity. Additionally, arrangements must be made for constructing dual entrance facilities at the customer's premises, at the customer's expense.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd)

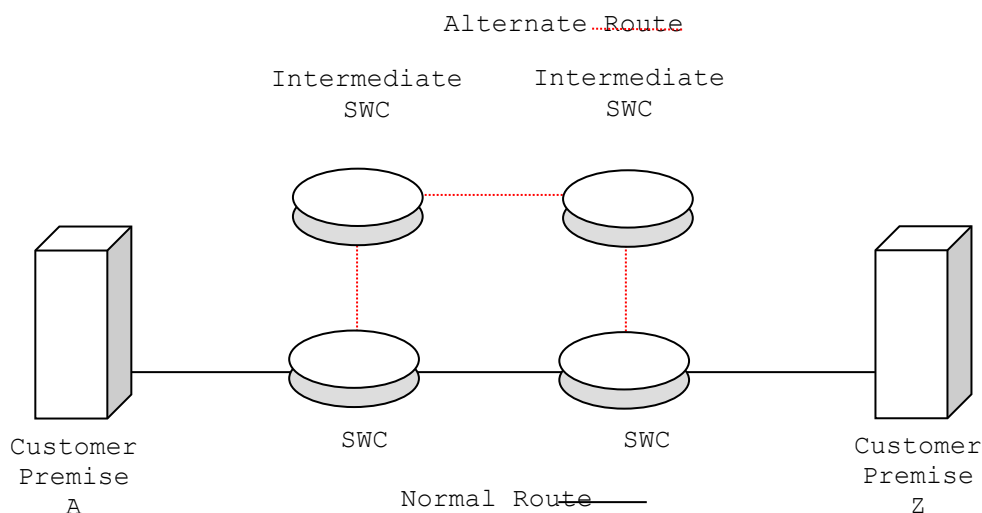
(D)

5.12.2 Channel Configuration (Cont'd)

(E) Inter-Wire Center (IWC) Diversity (Cont'd)

(1) Inter-Wire Center (IWC) Diversity Mileage Measurement

Mileage measurements for Access Services provisioned via Inter-Wire Center Diversity, will be based on the special routing; i.e.; mileage measurements will be calculated between the Intermediate Serving Wire Centers along the circuit path of the Diversely routed 1G Dedicated Ethernet service.



¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd)

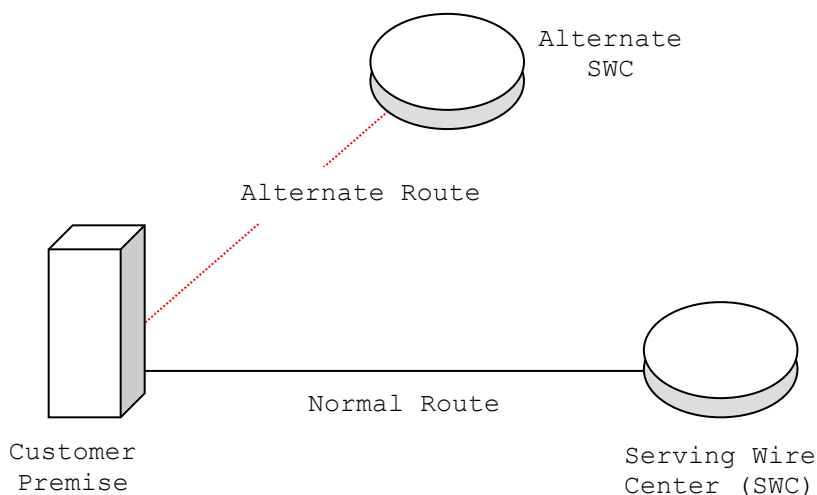
(D)

5.12.2 Channel Configuration (Cont'd)

(F) Alternate Wire Center Diversity

Alternate Wire Center Diversity is for the local loop only. It provides a local channel transmission path for 1G Dedicated Ethernet service between the customer's designated premises and a wire center that is not the normal (or standard) Serving Wire Center. The Telephone Company will choose the alternate wire center closest to the customer's designated premises that is capable of providing 1G Dedicated Ethernet service over the alternate route. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premises, at the customer's expense.

If the circuit routed to the alternate wire center has Interoffice Mileage, measurements will be based on the special routing; i.e., mileage measurements will be made to the alternate wire center rather than the Serving Wire Center from which the customer designated premises would normally obtain dial tone.



¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd) (D)5.12.3 Non-recurring Charges

Non-recurring charges are one-time charges that apply for specific work activity related to the provisioning of 1G Dedicated Ethernet Service, as described in Section 2.11.4.

5.12.4 Recurring Charges

Recurring Charges are rates that apply each month or fraction thereof that the service is provided. Recurring rates apply to 12-, 36-, or 60-month period under the terms and conditions of Term Pricing Plan (TPP), discussed in 5.13.6 following.

5.12.5 Monthly Extension Rates

Upon completion of a TPP, customer's service will automatically convert to the Monthly Extension Rates unless the customer requests a new TPP.

5.12.6 Term Pricing Plan (TPP)

1G Dedicated Ethernet Service is available for 12-, 36-, or 60- month periods. Monthly recurring charges apply for Local Distribution Channels, Interoffice Transport Fixed Mileage, and Mileage where appropriate.

A. Renewals

At the end of a TPP period, the customer must select one of the following options within one month prior to the expiration date:

- (1) Renew the service for a one, three, or five year TPP as provided in this tariff;
- (2) Elect to disconnect the service upon expiration of the billing period; or
- (3) Continue the service on a monthly basis at the current Monthly Extension Rates.

All services under an existing TPP that are not renewed within the period stated above will revert to Option (3) above and will be billed the current Monthly Extension Rates.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd)

(D)

5.12.6 Term Pricing Plan (TPP) (Cont'd)

(B) Conversions

During the customer's TPP term, conversions may be made to a new TPP term of the same or greater length. The expiration date of the new service must be beyond the expiration of the original TPP term.

With the new TPP, the customer incurs no termination liability for the remaining months on the original TPP.

(C) Termination Liability

Customers requesting termination of service prior to the expiration date of the TPP term will be liable for a termination charge equal to 50% of the Monthly Recurring Rate for the number of months remaining which is calculated as follows:

$$\begin{aligned} &(\text{Monthly Recurring Rate}) \times (\text{Months Remaining in Billing}) \times \\ &(\text{Termination Percentage}) = \text{Termination Liability Charge} \end{aligned}$$

Example: A 1G Dedicated Ethernet Customer with a \$6,000.00 monthly rate terminates service after 2 years with 1 year (12 months) remaining in a 3 year TPP. The termination liability would be calculated as follows:

$$\$6,000 \times 12 \times .50 = \$36,000.00 \text{ Termination Charge}$$

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd)

(D)

5.12.7 Moves

Moves involve a change in the physical location of one of the following:

- Service rearrangements;
- Point of Termination at the customer's premises;
or
- Customer's premises.

Move charges are dependent upon the type of move requested by the customer.

(a) Service Rearrangement

Service Rearrangements are changes to existing (installed) services, which do not result in a change in the minimum period requirements, as set forth in Section 2.10.3(A).

(b) Moves Within the Same Building

When the move is to a new location within the same building, the Administration charge and Customer Connection charge for the service termination affected will apply. There will be no change in the minimum period requirements, as described in Section 2.11.4 F (1).

(c) Moves to a Different Building

Moves to a different building will be treated as a discontinuance therefore start of service, all associated nonrecurring charges, and new minimum period requirements, as described in Section 2.11.4F (2) will apply.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd)

(D)

5.12.7 Moves (Cont'd)

- (d) 1G Dedicated Ethernet customers subscribing to three (3) and five (5) year Term Pricing Plans may move one end of the 1G Dedicated Ethernet service per the following regulations:
- (1) A customer may move one end of the 1G Dedicated Ethernet service to a different premises in the same LATA, without incurring early termination liability charges for their existing 1G Dedicated Ethernet service, providing the following criteria are met, contingent upon the availability of fiber from premises to premises.
- Customers must have completed at least 15 months (for 3 year term plan), and 18 months (for 5 year term plan) of their existing 1G Dedicated Ethernet contracted term plan,
 - The customer subscribes to a new term pricing plan period that is greater than the remaining months in the existing term pricing plan,
 - Nonrecurring charges will apply where applicable,
 - Spare facilities and equipment must be available or special construction charges, as set forth in Frontier Telephone Companies Tariff F.C.C. No. 7.

The moved service will require a disconnect of the existing 1G Dedicated Ethernet service and placement of an order for the new 1G Dedicated Ethernet service for same customer of record as disconnected service.

The monthly rates for the new services(s) shall be those rates in effect at the time the new service(s) is being installed requiring a disconnect of the existing 1G Dedicated Ethernet service and placement of an order for new 1G Dedicated Ethernet service.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd)

(D)

5.12.7 Moves (Cont'd)

(d) (Cont'd)

- (2) The 1G Dedicated Ethernet service was installed without protection and customer subsequently requests protection options after the 1G Dedicated Ethernet order has been completed, and customer premises locations remain the same.

This will require a change to the customer premises-based Telephone Company equipment. This change will be treated as an upgrade to the 1G Dedicated Ethernet service, and a new nonrecurring charge is applicable. This change will require a disconnect of the existing 1G Dedicated Ethernet service and placement of an order for the new 1G Dedicated Ethernet service for the same customer of record. With this upgrade the customer will experience an out of service condition.

- (3) The 1G Dedicated Ethernet service was installed with protection options and the customer subsequently requests a move of the channel termination within the same building afterwards.

This request may require a change to the customer premises based Telephone Company equipment which will be determined by the Telephone Company. Nonrecurring charges as set forth in Section 3, preceding are applicable (one-half the nonrecurring charge for the channel termination). With this upgrade the customer will experience an out-of-service condition.

5.12.8 Mileage Measurement

Mileage is calculated based on the airline distance between the locations involved., i.e., the serving wire centers associated with two customer designated premises and an international boundary point, a serving wire center associated with a customer designated premise and Telephone Company Hub, a serving wire center associated with a customer designated premise and a WATS Serving Office as described in Section 2.11.3.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)

(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd)

(D)

5.12.9 Upgrades

An upgrade is considered an increase in speed or capacity when Comparing 1G Dedicated Ethernet Service to the new service. Customers will be permitted to upgrade to a higher-speed service provided by the Company, without incurring Termination Charges, given all of the following conditions are met:

- (1) The customer must issue a disconnect order for the existing 1G Dedicated Ethernet Service and place a service order for the new higher-speed service at the same locations such that there is no more than 90 days overlap in service.
- (2) The new higher-speed service term must be equal to or greater than the remaining time left on the existing 1G Dedicated Ethernet term.
- (3) The existing 1G Dedicated Ethernet Service must have been in service for a minimum period of 15 months for a 36-month term or 18 months for a 60-month term. Existing 1G Dedicated Ethernet Service with 12-month terms will not be eligible for this upgrade option.

The monthly rates for the new service will be those rates in effect at the time the new service is installed.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd)

(D)

5.12.10 Modification of Access Service Order

The customer may request a modification of its Access Order at anytime prior to notification by the Telephone Company that service is available for the customer's use. 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 work force during normal business hours, the Telephone Company will notify the customer. If the customer still desires the Access Order Modification, the Telephone Company will schedule a new service date. All charges for Access Order modifications will apply on a per occurrence basis as described in Section 3.4.

5.12.11 Optional Features(A) Protection Options

Protection options are provisioned on the customer's 1G Dedicated Ethernet Service and the customer is not required to purchase a second 1G Dedicated Ethernet circuit for protection options. Protection options are applied on a per 1G Dedicated Ethernet circuit basis only.

Protection options are available where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not permit, special construction charges as set forth in Frontier Telephone Companies Tariff F.C.C. No. 7, may apply. Protection options provide additional levels of reliability to 1G Dedicated Ethernet service. There are multiple protection options offered. The options do not need to be the same, but both Channel Terminations of the 1G Dedicated Ethernet service must include some form of protection for the service to be considered protected.

The Telephone Company will design the protection optional based upon the configuration of the customers 1G Dedicated Ethernet service.

Additional repeaters may be necessary on the protected path as determined by the Company.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd) (D)5.12.11 Optional Features (Cont'd)(A) Protection Options (Cont'd)

Protection switching in less than 50 milliseconds will occur on 1G Dedicated Ethernet services with Protection options, with the exception of Power Protection, which is not switch protected. Protection options are offered with a Service Level Agreements (SLA) that target a service availability of 99.999%. SLA's are not applicable in the event of cable cut in any unprotected portion of the 1G Dedicated Ethernet service fiber path or when customer requested modifications to the service require down time.

1G Dedicated Ethernet Protection Options are offered as follows:

- (1) Equipment Only Protection - per Termination End
- (2) Equipment Plus Fiber Path Protection
 - (a) Equipment Plus Alternate Wire Center Path Protection - per Terminating End
 - (b) Equipment Plus Channel Termination Path Protection - per Terminating End
 - (c) Inter Wire Center Path Protection
- (3) Power Protection

(B) Equipment Only Protection

Equipment Only Protection offers one 1G Dedicated Ethernet signal routed on two different fiber pairs that co-exist in the same cable and conduit structure that terminate into two distract and separate network terminating equipment devices at the customer's premises.

All protected configurations have one working and one standby path. In event of a failure of the customer's transmission path, the 1G Dedicated Ethernet equipment will switch, within 50 milliseconds of detection, the customer's transmission to a dedicated standby path.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd) (D)5.12.11 Optional Features (Cont'd)(B) Equipment Only Protection (Cont'd)

In the event of a failure to both fiber transmission paths, an out of service condition will result. This form of protection can only be ordered per channel termination for each protected 1G Dedicated Ethernet service, and may also apply to the Inter-Wire center segment if the 1G Dedicated Ethernet service is served by more than one serving wire center.

If a customer requests complete protection extending to the Telephone Company serving wire center from their premises location when utilizing Equipment Protection, they must request diverse entrance facilities into their premises at each end from the nearest Telephone Company splice point closest to the customer premises location, this work is subject to special construction charges as set forth in Frontier Telephone Companies Tariff F.C.C. No. 7.

(C) Equipment Plus Fiber Path Protection

Equipment Plus Fiber Path Protection offers varying degrees of path protection for each channel termination of the 1G Dedicated Ethernet service, plus the inter-wire segment if the service is served by more than one SWC, and is offered as follows:

(1) Equipment Plus Alternate Wire Center Path Protection

Equipment Plus Alternate Wire Center Path Protection offers one 1G Dedicated Ethernet signal routed over one fiber pair of the protected 1G Dedicated Ethernet service from the customer's premises to the customer's normal serving wire center, and a duplicate 1G Dedicated Ethernet signal routed over a diversely routed fiber pair to the Alternate Wire center selected by the Telephone Company.

If any location(s) between the two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine accept the engineered path or agree to pay special construction charges as set forth in Frontier Telephone Companies Tariff F.C.C. No. 7, to provide a completely diverse route where the ten foot allowance is not acceptable to the customer.

Where facilities are not available, the Customer may select Equipment Only Protection for an inter-office segment. This option can be selected for one or both channel terminations of the 1G Dedicated Ethernet service.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date. (N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd) (D)5.12.11 Optional Features (Cont'd)(C) Equipment Plus Fiber Path Protection (Cont'd)(1) Equipment Plus Alternate Wire Center Path Protection (Cont'd)

All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, the 1G Dedicated Ethernet service will switch to a dedicated standby path within 50 milliseconds of detection. In the event of a failure to both fiber transmission paths, an out of service condition will result. This form of protection can only be ordered per channel termination for each protected 1G Dedicated Ethernet service.

If a customer requests complete protection extending to the Telephone Company serving wire center from their premises location when utilizing Equipment Protection Plus Alternate Wire Center Path Protection, they must request diverse entrance facilities into their premises at each end from the nearest Telephone Company splice point closest to the customer premise location. This work is subject to special construction charges as set forth in Frontier Telephone Companies Tariff F.C.C. No. 7.

(2) Equipment Plus Channel Termination Path Protection

Equipment Plus Channel Termination Path Protection offers a duplicate 1G Dedicated Ethernet signal routed over two diversely routed fiber paths, to the customer's normal serving wire center.

If any location(s) between two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine to accept the engineered path or agree to pay special construction charges as set forth in Frontier Telephone Companies Tariff F.C.C. No. 7, to provided a completely diverse route where the ten foot allowance is not acceptable to the customer.

All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, 1G Dedicated Ethernet technology will switch within 50 milliseconds of detection, the customer's transmission to a dedicated standby path.

In the event of failure to both fiber transmission to a dedicated standby path. In the event of a failure to both fiber transmission paths, an out of service condition will result.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd) (D)5.12.11 Optional Features (Cont'd)(C) Equipment Plus Fiber Path Protection (Cont'd)(2) Equipment Plus Channel Termination Path Protection (Cont'd)

This form of protection can only be ordered per channel termination for each protected 1G Dedicated Ethernet service, from the customer premises location, or from the manhole/splice point nearest the customer premises), to the utility serving wire center.

If a customer requests complete protection extending to the Telephone Company serving wire center from their premises location when utilizing Equipment Protection Plus Channel Termination Path Protection, they must request diverse entrance facilities into their premises at each end from the nearest Telephone Company splice point closest to the customer premises location. This work is subject to special construction charges as set forth in Frontier Telephone Companies Tariff F.C.C. No. 7.

(3) Inter-Wire Center Path Protection

Inter-Wire Center Path Protection offers a duplicate 1G Dedicated Ethernet signal routed over two diversely routed fiber paths, between the two serving wire centers or alternate wire centers. Path protection starts at the nearest manhole outside the Telephone Company serving wire center. Inter-Wire Center Path Protection must be ordered with either Equipment Only, Channel Termination Path Protection or Alternate Wire Center Path Protection.

If any location(s) between the two fiber paths is closer than ten feet, the location(s) will be disclosed to the customer. The customer will determine to accept the engineered path or agree to pay special construction charges as set forth in Frontier Telephone Companies Tariff F.C.C. No. 7 to provide a completely diverse route where the ten foot allowance is not acceptable to the customer.

All protected configurations have one working and one standby path. In the event of a failure of the customer's transmission path, 1G Dedicated Ethernet technology will switch, within 50 milliseconds of detection, the customer's transmission to a dedicated standby path. In the event of a failure to both fiber transmission paths, an out-of-service condition will result.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date. (N)
(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd) (D)5.12.11 Optional Features (Cont'd)(C) Equipment Plus Fiber Path Protection (Cont'd)(4) Power Protection

Power Protection provides 1G Dedicated Ethernet customers with battery backup for up to eight (8) hours to maintain 1G Dedicated Ethernet equipment in the event of a commercial AC power failure. Power Protection is offered on a per equipment bay capacity basis, per customer premise, and depending upon the number of 1G Dedicated Ethernet services for the 1G Dedicated Ethernet customer of record. The Telephone Company will apply the power protection rate elements based upon the circuit capacity, and more than one element may be applicable. The Telephone Company will determine the design and engineering requirements for Power Protection for 1G Dedicated Ethernet customers. Customers in multi-tenant buildings will require separate equipment and bays dedicated to each customer. The addition of Power Protection to existing 1G Dedicated Ethernet service may result in temporary service interruption.

Power Protection is not available for installations using the wall mounted cabinet.

Customers are responsible for providing floor space for power equipment.

5.12.12 A. Allowance for Service Interruptions (Not Fully Protected)

The 1G Dedicated Ethernet outage credits listed below are in lieu of and not in addition to, the outage credit allowances provided for in the General Regulations of this tariff.

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this tariff, or in the event that the protective controls applied by the Company result in the complete loss of service by the customer. An interruption period starts when an inoperative service is reported to the Company and the Company confirms that the continuity has been lost, and ends when the service is operative.

In case of an interruption to 1G Dedicated Ethernet service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)

(N)

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd)

(D)

5.12.12 A. Allowance for Service Interruptions (Not Fully Protected) (Cont'd)

The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8460 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowances(s) for service interruptions shall not exceed 100 per cent of the applicable monthly rates.

The Company's failure to provide or maintain services under the tariff shall be excused by force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbance, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.

5.12.12 B. Allowance for Service Interruptions (Fully Protected)

A Service Level Agreement (SLA) is offered with fully-protected 1G Dedicated Ethernet service, which provides the customer with a performance commitment that includes financial compensation if the service does not perform as described.

An SLA of 99.999 percent Service Availability performance is offered on a 1G Dedicated Ethernet service with protection (defined as Equipment Plus Path Protection) for every segment of the service. If this SLA is not met, the customer will be entitled to a credit equal to 100% of the monthly rate for the period of the interruption of service affecting that rate element(s), not to exceed the total monthly charges for the services. Only one such credit in a billing period will apply.

The service is considered interrupted when the customer reports a service disruption of greater than ten (10) consecutive seconds to the Telephone Company and the Telephone Company confirms that continuity of its service has been lost.

In order to qualify for this credit, the outage must be determined by the Telephone Company to be in its network and the failure occurred in that part of the service with the Protection. SLA adjustments are not available in the event of a cable cut, in any unprotected portion of the 1G Dedicated Ethernet service fiber path, or due to customer requested modifications to the service that may require down time. SLAs are applicable to customers who purchase Equipment Plus Alternate Wire Center Path Protection or Equipment Plus Channel Termination Path Protection on both ends of a 1G Dedicated Ethernet service (both channel terminations) as well as Inter-Wire Center Path Protection when applicable. The customer is responsible for notifying the Telephone Company when the service parameter within the calendar month falls below the committed level. The customer must request a service credit adjustment within 25 days after the end of the month when the failure occurred.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)

(N)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 5-72

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet ¹ - Grandfathered (Cont'd)

(D)

5.12.13 Rates and Charges(A) Recurring Charges

Term Pricing Plan

	Monthly Extension	12 Mo.	36 Mo.	60 Mo.
(1) Local Distribution Channel - Per Point of Termination Terminating Bit Rate 1 Gbps	\$3,800.00	\$3,300.00	\$2,850.00	\$2,500.00
(2) Interoffice Transport Mileage - Fixed	\$250.00	\$250.00	\$200.00	\$100.00
- Per Mile 1 Gbps	\$125.00	\$125.00	\$100.00	\$75.00
(3) Repeater -each	\$2,500.00	\$2,400.00	\$1,150.00	\$850.00
(4) Diversity Options				
Local Channel Diversity -Per Channel Terminating Bit Rate 1 Gbps				
-All States	\$750.00	\$750.00	\$750.00	\$750.00
Inter Wire Center Diversity -Per Circuit Terminating Bit Rate 1 Gbps				
-All States	\$500.00	\$500.00	\$500.00	\$500.00
Alternate Wire Center Diversity -Per Channel Termination bit Rat 1 Gbps				
-All States	\$1,200.00	\$1,200.00	\$1,200.00	\$1,200.00

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)

(N)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 5-73

Section 5 - Special Access Service

5.12 1G Dedicated Ethernet¹ - Grandfathered (Cont'd)

(D)

5.12.13 Rates and Charges (Cont'd)

(A) Recurring Charges

	Extension	12 Mo.	Monthly 36 Mo.	Term Pricing 60 Mo.	Plan NRC
(5) Protection - per 1G Dedicated Ethernet service arranged					
-Equipment Only Protection, per terminating end	\$1,500.00	\$1,375.00	\$1,050.00	\$900.00	\$625.00
-Equipment Plus Alternate Wire Center Path Protection, per terminating end	2,460.00	2,050.00	1,600.00	1,400.00	1,400.00
-Equipment Plus Channel Termination (Local Channel) Path Protection, per terminating end	2,190.00	1,825.00	1,425.00	1,225.00	1,225.00
-Inter Wire Center Path Protection, per circuit	475.00	375.00	150.00	100.00	625.00
-Power Protection ⁽¹⁾	700.00	625.00	480.00	435.00	475.00

⁽¹⁾ Power protection rate elements are applicable as set forth in 5.13.11(A) (4) preceding.

(B) Installation and Rearrangement Charges

Nonrecurring Charges

	12 Months	36 Months*	60 Months*
(1) Administrative			
Charge per Order	\$60.00	\$60.00	\$60.00
(2) Design Central Office Connection			
Charge per circuit	\$230.00	\$230.00	\$230.00
(3) Customer Connection			
Charge per termination	\$1,500.00	\$1,500.00	\$1,500.00

* The Administrative, Design Central Office Connection and Customer Connection nonrecurring charges will be waived for 36 and 60 month terms for new service.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Issued: December 18, 2018

Effective: January 1, 2019

Section 6 - Testing, Maintenance and Additional Labor Services

6.1 General

The services provided under this tariff shall be maintained and repaired only 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 of equipment or communications systems provided by the customer to the Access Service interface used, unless the Telephone Company gives its written consent.

The Telephone Company's failure to maintain services under this tariff is 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 a Credit Allowance for a Service Interruption, as set forth in Section 2.

6.1.1 Notification of Service-Affecting Activities

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

6.1.2 Network Contingency Plans

The Telephone Company will 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. The customer shall, in cooperation with the Telephone Company, coordinate in planning the actions to be taken to maintain maximum network capability following such disasters, which affect telecommunications services.

Section 6 - Testing, Maintenance and Additional Labor Services

6.1 General (Cont'd)

6.1.3 Labor Sensitive Rates

When applying rates based on the number of hours worked, a Telephone Company employee's time is classified as follows:

A. Basic Time

Applies to time worked during a normal business day, (8:00 a.m. - 5:00 p.m., Monday through Friday).

B. Overtime

Applies to time worked outside of a normal business day Monday through Friday), and on Saturdays.

C. Premium Time

Applies to time worked on Sundays and/or holidays (i.e., New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the day after Thanksgiving, and Christmas Day.

D. Call-outs

A call-out of a Telephone Company employee will be charged a minimum of four (4) hours on an Overtime and/or Premium Time basis when the call-out is attributed to a customer request/ problem. However, at no time will the customer be charged if trouble is found to be on the Telephone Company side of the demarcation point.

Section 6 - Testing, Maintenance and Additional Labor Services

6.2 Testing Services

6.2.1 Acceptance Testing

At the customer's request and at no additional charge, the Telephone Company will cooperatively test Switched Access, Special Access and Local Exchange Access Services for the parameters listed in separate subsections which follow at the time of installation. The customer may request additional acceptance testing services for additional charges.

6.2.2 Normal Maintenance

The Telephone Company maintains and repairs the services offered in this tariff during a normal business day at no additional charge to the customer. The customer may request maintenance outside of a normal business day for an additional charge.

The Telephone Company will test its services only to the extent necessary to detect and/or clear troubles.

6.2.3 Optional Testing Services

The customer may order additional testing services for additional charges. The facilities to be tested shall be made available at mutually agreed upon times when a customer orders an optional testing service.

A. Scheduled Tests

Scheduled tests are performed by the Telephone Company, after the initial installation, on a regular, e.g. monthly, basis. Scheduled tests may be performed: (1) cooperatively with Telephone Company technicians at Telephone Company offices working with customer technicians at the customer's premises or (2) manually with Telephone Company technicians at both the Telephone Company offices and the customer's premises. Certain Switched Access Services may also be tested on an automated basis with no Telephone Company or customer technicians involved.

Section 6 - Testing, Maintenance and Additional Labor Services

6.2 Testing Services (Cont'd)6.2.3 Optional Testing Services (Cont'd)A. Scheduled Tests (Cont'd)

There is a minimum number of scheduled tests which make up the basic offering which must be ordered by the customer. Based on the specific tests involved, a monthly charge is developed for testing service ordered by multiplying per test, per transmission path monthly rates times the number of tests ordered in a one year interval.

Example:

A customer orders 12 Loss tests, 12 Noise tests and 2 Return Loss tests on one trunk for a year. The total monthly charges are computed as follows:

$$\begin{array}{r} 12 \times (\text{Loss Test monthly rate}) \\ + 12 \times (\text{Noise Test monthly rate}) \\ + \underline{2 \times (\text{Return Loss monthly rate})} \\ \text{Total monthly charge to test the one trunk} \end{array}$$
B. Nonscheduled Tests

Nonscheduled tests are tests performed by the Telephone Company "on demand" and may involve Telephone Company technicians at both the Telephone Company's offices and the customer's premises.

Section 6 - Testing, Maintenance and Additional Labor Services

6.3 Switched Access Testing Services6.3.1 Acceptance TestingA. Testing Provided at No Charge

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

loss	C-notched noise	C-message noise
3-tone slope	dc continuity	operational signaling

When Switched Transport is provided with Voice Grade (4-wire) DS1, and DS3 and the Transport Termination is two-wire, i.e., there has been a two-wire to four-wire conversion in the Switched Transport, balance parameters (equal level echo path loss) may also be tested.

B. Optional Additional Cooperative Acceptance Testing

Additional Cooperative Acceptance Testing (ACAT) of Switched Access Service involves the provision of a Telephone Company technician at its office(s) and a customer technician at its premises with suitable test equipment to perform such tests as:

Impulse Noise	Signal to C-Notched Noise Ratio
Phase Jitter	Intermodulation (Nonlinear) Distortion
Frequency Shift (Offset)	Envelope Delay Distortion

<u>Work Periods</u>	<u>Half Hour or Fraction Thereof</u>	
	<u>First</u>	<u>Additional</u>
Basic Time	\$57.36	\$26.37
Overtime	\$61.32	\$30.73
Premium Time	\$65.28	\$34.29

Section 6 - Testing, Maintenance and Additional Labor Services

6.3 Switched Access Testing Services (Cont'd)6.3.2 Automatic Testing

Automatic Testing is provided with FGB and FGD. The customer must provide remote office test lines and 105 test lines with associated responders or their functional equivalent. If Remote Office Test Line priming data is required to support automatic testing, the customer shall provide such data to the Telephone Company.

A. Automatic Scheduled Testing (AST)

The minimum AST offering consists of twelve 1004 Hz loss and C-message noise tests and one annual return loss (balance) test per year per transmission path. The customer may specify a more frequent schedule of tests 60 days before the start of the customer prescribed schedule.

The customer may also order gain-slope and C-notched noise testing 60 days before the start of the customer prescribed schedule.

The Telephone Company will provide a monthly AST report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution are provided to the customer on an as-occurs basis.

Charges

To the first Point of Switching, per test ordered, per transmission path, per month.

(1) <u>Basic Tests#</u>	<u>Monthly Rate</u>
1004 Hz Loss Tests	\$0.11
C-Message Noise Tests	\$0.11
Return Loss (Balance) Tests	\$0.11
(2) <u>Additional Tests</u>	
Gain-Slope Tests	\$0.11
C-Notched Noise Tests	\$0.11

Subject to a one year minimum contract period, and annually thereafter.

Section 6 - Testing, Maintenance and Additional Labor Services

6.3 Switched Access Testing Services (Cont'd)6.3.2 Automatic Testing (Cont'd)B. Nonscheduled Automatic Testing

Charges - To the first Point of Switching, per test performed.

	<u>Monthly Rate</u>
1004 Hz Loss	\$17.46
C-Message Noise	\$17.46
Return Loss (Balance)	\$17.46
Gain-Slope	\$17.46
C-Notched Noise	\$17.46

6.3.3 Cooperative Testing

Cooperative Testing is provided with FGB, FGD and Directory Assistance Access Service not routed through an access tandem. The Telephone Company provides a technician at its office(s). The customer must provide a technician at its premises with suitable test equipment to perform the required tests.

A. Cooperative Scheduled Testing (CST)

The minimum CST offering consists of quarterly 1004 Hz loss and C-message noise tests, and an annual balance test per transmission path. The customer may specify a more frequent schedule of tests 60 days before the start of the customer prescribed schedule.

The customer may also order gain-slope and C-notched noise testing 60 days before the start of the customer prescribed schedule.

The Telephone Company will provide a quarterly CST report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution are provided to the customer on an as-occurs basis.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 6-8

Section 6 - Testing, Maintenance and Additional Labor Services

6.3 Switched Access Testing Services (Cont'd)

6.3.3 Cooperative Testing (Cont'd)

A. Cooperative Scheduled Testing (CST) (Cont'd)

Charges

To the first Point of Switching, per test ordered, per transmission path, per month.

(1) Basic Tests# Monthly Rate

1004 Hz Loss Tests	\$0.51
C-Message Noise Tests	\$0.51
Return Loss (Balance) Tests	\$1.00

(2) Additional Tests

Gain-Slope Tests	\$1.00
C-Notched Noise Tests	\$0.51

B. Nonscheduled Cooperative Testing

<u>Work Periods</u>	<u>Half Hour or Fraction Thereof</u>	
	<u>First</u>	<u>Additional</u>
Basic Time	\$57.36	\$26.37
Overtime	\$61.32	\$30.73
Premium Time	\$65.28	\$34.29

Subject to a one year minimum contract period, and annually thereafter.

Section 6 - Testing, Maintenance and Additional Labor Services

6.3 Switched Access Testing Services (Cont'd)

6.3.4 Manual Testing

Manual Testing is provided with FGB, FGD and Directory Assistance Access Service not routed through an access tandem. The Telephone Company provides technicians at its office(s) and at the customer's premises.

A. Manual Scheduled Testing (MST)

The minimum MST offering consists of four loss and C-message noise tests and an annual balance test. However, the customer may specify a more frequent schedule of tests 60 days before the start of the customer prescribed schedule.

The customer may also order gain-slope and C-notched noise testing 60 days before the start of the customer prescribed schedule.

The Telephone Company will provide a quarterly MST report that lists test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution are provided to the customer on an as-occurs basis.

Charges

To the first Point of Switching, per test ordered, per transmission path, per month.

(1) <u>Basic Tests#</u>	<u>Monthly Rate</u>	
1004 Hz Loss Tests	\$1.07	
C-Message Noise Tests	\$1.07	
Return Loss (Balance) Tests	\$2.16	
(2) <u>Additional Tests</u>		
Gain-Slope Tests	\$2.16	
C-Notched Noise Tests	\$1.07	

B. Nonscheduled Manual Testing

<u>Work Periods</u>	<u>Half Hour or Fraction Thereof</u>	
	<u>First</u>	<u>Additional</u>
Basic Time	\$57.36	\$26.37
Overtime	\$61.32	\$30.73
Premium Time	\$65.28	\$34.29

Subject to a one year minimum contract period, and annually thereafter.

Section 6 - Testing, Maintenance and Additional Labor Services

6.4 Special Access and Dedicated Signalling Transport (DST), Signalling
Network Access - Dedicated (SNA-D) and LIDB Validation Testing Services

6.4.1 Acceptance Testing

A. Testing Provided at No Charge

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

- (1) Voice Grade analog services - loss, 3-tone slope, dc continuity, operational signalling, C-notched noise, and C-message noise when these parameters apply and are specified in the order for service. If the customer orders the Voice Grade improved loss optional feature, a balance (improved loss) test is also performed.
- (2) Other services - acceptance tests will include tests for the parameters applicable to the service as specified in the order for service.

At the request of a customer, the Telephone Company will provide assistance in performing specific tests requested by the customer.

B. Optional Additional Cooperative Acceptance Testing (ACAT)

When a customer provides a technician at its premises or at an end user's premises, with suitable test equipment to perform the requested tests, the Telephone Company will provide a technician at its office to conduct Additional Cooperative Acceptance Testing on Voice Grade Services. At the customer's request, the Telephone Company will provide a technician at the customer's premises or at the end user's premises. These tests may consist of, but are not limited to, 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

<u>Work Periods</u>	<u>Half Hour or Fraction Thereof</u>	
	<u>First</u>	<u>Additional</u>
Basic Time	\$52.18	\$21.19
Overtime	\$55.99	\$25.00
Premium Time	\$59.58	\$28.59

Section 6 - Testing, Maintenance and Additional Labor Services

6.4 Special Access and Dedicated Signaling Transport (DST) and LIDB Validation Testing Services (Cont'd)6.4.2 Nonscheduled Testing

When a customer provides a technician with suitable test equipment to perform the requested tests, the Telephone Company will provide a technician at its office to conduct Additional Cooperative Acceptance Testing.

<u>Work Periods</u>	<u>Half Hour or Fraction Thereof</u>	
	<u>First</u>	<u>Additional</u>
Basic Time	\$52.18	\$26.37
Overtime	\$55.99	\$30.73
Premium Time	\$59.58	\$34.29

6.4.3 DST and LIDB Validation Service

Additional testing services for DST and LIDB Validation Service are described in 12.6 following.

6.4.4 Signalling Network Access - Dedicated(SNA-D)

Additional testing information for SNA-D is described in Section 18.2.8.1(c) of this Tariff.

Section 6 - Testing, Maintenance and Additional Labor Services

6.5 Local Exchange Access Testing Service

6.5.1 Acceptance Testing

The Telephone Company will make available access to 105 test lines (or the equivalent) for acceptance testing, by the customer, of Local Exchange-Network Interconnection Trunking Services.

Additionally, at the customer's request and at no additional charge, the Telephone Company will cooperatively test Local Exchange-Network Interconnection Access Services for the following parameters where appropriate at the time of installation:

loss	C-notched noise	C-message noise
3-tone slope	dc continuity	operational signaling

6.5.2 Scheduled and Non-Scheduled Testing

The Telephone Company will make available at no charge access to 105 test lines (or the equivalent) for scheduled and non-scheduled testing, by the customer, of Local Exchange-Network Interconnection Trunking Services.

Additionally, at the customer's request the Telephone Company will cooperatively test Local Exchange-Network Interconnection Access Services on a scheduled or non-scheduled basis. The following charges will apply:

<u>Work Periods</u>	<u>Half Hour or Fraction Thereof</u>	
	<u>First</u>	<u>Additional</u>
Basic Time	\$57.36	\$26.37
Overtime	\$61.32	\$30.73
Premium Time	\$65.28	\$34.29

Section 6 - Testing, Maintenance and Additional Labor Services

6.6 Maintenance of Service Charge

- (A) If trouble occurs with a customer's service, the customer should first determine whether the trouble is in the customer's own equipment and/or facilities. If the customer determines the trouble is in the Telephone Company's equipment and/or facilities, the customer should issue a trouble report to the Telephone Company.
- (B) When a customer reports a trouble to the Telephone Company for clearance and (a) no trouble is found in the Telephone Company's facilities and/or (b) the trouble is determined to be in equipment or communications systems provided by other than the Telephone Company or in detariffed customer premises equipment provided by the Telephone Company, the customer shall be responsible for payment of a Maintenance of Service charge for the period from when Telephone Company personnel are dispatched until the time trouble is determined not to be in the Telephone Company's facilities.
- (C) If the customer issues a trouble report allowing the Telephone Company access to the customer's or the customer's end user's premises and the Telephone Company personnel are dispatched but denied access to the premises, then the Maintenance of Service Charge will apply for the period of time that Telephone Company personnel are dispatched. Subsequently, if the Telephone Company personnel are allowed access to the premises, provisions in (B) preceding will apply.
- (D) In either (B) or (C) preceding, the Maintenance of Service Charge shall include the time for all technicians dispatched, including technicians dispatched to other locations for purposes of testing. Maintenance of Service Charges apply on a first and additional basis for each one-half (1/2) hour or fraction thereof.
- (E) No credit allowance for service interruption will be applicable for a service interruption if the Maintenance of Service charge applies. If however, provisions in (C) apply, both a Maintenance of Service Charge and a Credit Allowance may apply.

<u>Work Periods</u>	<u>Half Hour or Fraction Thereof</u>	
	<u>First</u>	<u>Additional</u>
Basic Time	\$52.18	\$26.37
Overtime	\$55.99	\$30.73
Premium Time	\$59.58	\$34.29

Section 6 - Testing, Maintenance and Additional Labor Services

6.7 Additional Engineering and Labor Services6.7.1 Additional Engineering Service

Additional Engineering will be provided by the Telephone Company at the request of the customer only when:

- A. A customer requests additional technical information after the Telephone Company has already provided the technical information normally included on the Design Layout Report (DLR) as set forth in Section 2 of this Tariff.
- B. Additional engineering time is incurred by the Telephone Company to engineer a customer's request for a customized Special Access Service as set forth in Section 5 of this Tariff.

When Additional Engineering charges are determined to apply, the customer is given a written estimate of the charges and a statement setting forth the justification, if warranted, for the Additional Engineering. If the customer agrees to the Additional Engineering, a firm order is established. If the customer does not want the service or facilities after being notified that Additional Engineering charges will apply, 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%.

<u>Work Periods</u>	<u>Half Hour or Fraction Thereof</u>	
	<u>First</u>	<u>Additional</u>
Basic Time	\$62.08	\$31.09
Overtime	\$62.08	\$31.09

6.7.2 Additional Labor Service

Additional Labor Service must be requested by the customer and agreed to by the Telephone Company. The Telephone Company will notify the customer that additional labor charges will apply before it undertakes any additional labor.

Additional Labor Charges as set forth in 6.7.2 (B), apply on a first and additional basis for each half hour or fraction thereof.

A. Overtime Installation

Applies to Telephone Company installation effort performed outside of normal business day.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 6-15

Section 6 - Testing, Maintenance and Additional Labor Services

6.7 Additional Engineering and Labor Services (Cont'd)

6.7.2 Additional Labor Service (Cont'd)

B. Stand by

Stand-by includes all time in excess of one (1/4) hour during which Telephone Company personnel stand by at the customer's request.

C. Other

- (1) Additional testing, or maintenance of facilities which connect to facilities of other telephone companies, in addition to the normal effort required to test, or maintain facilities provided solely by the Telephone Company. Rates for this service are set forth in D(2) below.
- (2) Any other labor to accommodate a specific customer request involving labor not covered by any other section of this Tariff. These charges may apply when a customer, customer's end user, or customer's agent requests a Telephone Company technician be dispatched to a premise, and no access is provided to the technician by the aforementioned parties.

D. Hourly Rates

		<u>Half Hour or Fraction Thereof</u>	
		<u>First</u>	<u>Additional</u>
(1)	<u>Installation</u>		
	Overtime	\$55.99	\$25.00
	Premium Time	\$59.58	\$28.59
		<u>First</u>	<u>Each Additional</u>
		<u>Quarter Hour</u>	<u>Half Hour or</u>
			<u>Fraction</u>
(2)	<u>Stand By</u>		
	Basic Time	None	\$21.19
	Overtime	None	\$25.00
	Premium Time	None	\$28.59
		<u>Half Hour or Fraction Thereof</u>	
		<u>First</u>	<u>Additional</u>
(3)	<u>Other</u>		
	Basic Time	\$52.18	\$21.19
	Overtime	\$55.99	\$25.00
	Premium Time	\$59.58	\$28.59

Section 7 - Special Facilities Routing of Access Services

7.1 General

The services provided under this tariff are normally 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 or Special Access Service or Arrangements in a manner which includes one or more of the following conditions:

7.1.1 Diversity

Two or more services, or portions thereof, must be provided over not more than two different physical routes, e.g., physical geographical routes, separate cable sheaths, different carrier transmission systems, different microwave systems, etc.

7.1.2 Avoidance

A service must be provided on a route which avoids specified geographical locations.

Note: Avoidance and Diversity are available on Switched Access Service, Voice Grade and DDS Special Access Services.

Enhanced Access Diversity is provided for DS1 and DS3 services as specified in Section 5.12.4.

In order to avoid the compromise of Special Facilities 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.

The rates and charges for Special Facilities Routing of Access Services set forth in 7.2 following are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

The offering of Special Facilities Routing of Access Services contemplates the use of existing facilities. Should facilities not be available, it may be necessary to construct facilities either as (a) normal facilities, or (b) as specially constructed facilities in accordance with the regulations in Section 10. In the latter case, the entire individual case basis filing shall be filed in 7.2 and will include both the rates and charges associated with Special Facilities Routing of Access Services and the applicable Special Construction rates, charges and liabilities.

Section 7 - Special Facilities Routing of Access Services

7.2 Rates and Charges

The rates and charges for Special Facilities Routing of Access Services are developed on an individual case basis and are filed following:

7.2.1 Diversity

For each service provided in accordance with 7.1 preceding, the rates and charges will be developed on an individual case basis and filed following:

7.2.2 Avoidance

For each service provided in accordance with 7.1 preceding, the rates and charges will be developed on an individual case basis and filed following:

7.2.3 Diversity and Avoidance Combined

For each service provided in accordance with 7.1.1 and 7.1.2 preceding, combined, the rates and charges will be developed on an individual case basis and filed following:

Section 8 - Specialized Access Services

8.1 General

Specialized Access Services may be provided by the Telephone Company, at the request of a customer, on an individual case basis if such services meet the following criteria:

- A. The requested service is not offered under other sections of this tariff.
- B. The facilities required to provide the requested service are of a type normally used by the Telephone Company in furnishing its other services.
- C. The requested service is provided within the operating territory of the Telephone Company.
- D. The requested service is compatible with other Telephone Company services, facilities, and engineering and maintenance practices.
- E. The necessary Telephone Company personnel and capital resources are available to provide the requested service.

8.2 Rates and Charges

Rates and Charges, and additional regulations if applicable, for Specialized Access Services are provided on an individual case basis and are filed following:

Section 9 - Miscellaneous Services

9.1 Provision of Access Service Billing Information

Customers that purchase out of this tariff may be billed Access Service Billing Information as referenced in Sections 9.1.1 and 9.1.2 following, or through Customer Record Information Billing as referenced in Sections 9.1.3 and 9.1.4 following, as appropriate to specific services in this Tariff. The customer may, depending on the mix of products, receive both bill formats.

9.1.1 Access Service Billing Information Options

The customer may receive its monthly Access Service bills in a standard format on paper or, if requested by the customer, in any of the following formats in lieu of paper at no additional charge:

- A. Primary monthly Access Service bills may be provided on magnetic tape.
- B. Primary monthly Access Service bills may be provided to the customer premises by electronic data transmission.

Upon acceptance of an order for electronic data transmission, the Telephone Company will determine the period of time to implement the transmission of such material on an individual order basis.

- C. Primary monthly Access Service bills may be provided in microfiche format.
- D. An abbreviated bill in paper format will be provided at no charge when the customer Access Service bill is provided in other than paper format.
- E. At the request of the customer and for an additional charge as set forth in 9.1.2 following, the customer may be provided with an additional copy of the Access Service bill.

9.1.2 Access Service Billing Rates and Charges

The rates and charges for the provision of additional copies of the customer monthly Access Service bill are as follows:

	<u>Rates</u>
A. Additional copies of the customer monthly bill or service and features record in magnetic tape format,	
- per record	\$0.0001
- per tape	\$44.32

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 9-2

Section 9 - Miscellaneous Services

9.1 Provision of Access Service Billing Information (Cont'd)

9.1.2 Access Service Billing Rates and Charges (Cont'd)

	<u>Rates</u>
B. Additional copies of the customer monthly bill or service and features record via electronic data transmission, - per record transmitted using the T-Tran system - per record transmitted using the Network Data Mover (NDM) system	ICB \$0.0009
C. Additional Copies of the customer monthly bill or service and features record in microfiche format - per microfiche record - per billing cycle	\$0.76 \$7.72
D. Additional Copies of the customer monthly bill or service and features record in standard paper format - per page - per customer request	\$0.06 \$4.55

9.1.3 Customer Record Information Billing Options

The customer will receive its monthly Customer Record bill in a standard format on paper and, if requested by the customer, a mechanized bill in the following format:

- 1) magnetic tape reel,
- 2) magnetic tape cartridge, or
- 3) data transmission or other alternative methods will be available on an individual case basis.

The customer may select its bill date, bill detail, and service and equipment (S&E) detail.

The customer may request OutWATS or 800 Custom Services itemized call detail on tape cartridge, paper or magnetic tape. ¹

(C)

¹ This service offering is grandfathered as of July 31, 2020 and limited to existing subscribers at their existing locations.

(N)

(N)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 9-3

Section 9 - Miscellaneous Services

9.1 Provision of Access Service Billing Information (Cont'd)

9.1.4 Customer Record Information Billing Rates and Charges

The rates and charges for the provision of mechanized Customer Record Information are as follows:*,**

Billing Detail

- Magnetic Tape
- Cartridge Tape

S&E Detail ***

- Magnetic Tape
- Cartridge Tape

Billing and S&E Detail

- Magnetic Tape
- Cartridge Tape

Selected Bill Date

The non recurring charges for the provision of mechanized customer record information for OutWATS and 800 Custom Service Bill Plus format are provided below. ¹

<u>Itemized Call Detail Format**** ¹</u>	<u>Non Recurring Charge</u>
Tape Cartridge	\$200.00
Paper	\$200.00
Magnetic Tape	\$200.00

* Data transmission or other alternative methods will be available on an individual case basis. Charges to be determined based on individual customer requirements.

** Nonrecurring record charge applies as defined in Tariff Section 18.1. (D)

*** If a customer has either billing detail or S&E detail and subsequently requests both, a Record Charge as defined in Section 18.1 applies. Two tapes will not be provided. (D)

**** When changing from one type of call detail to another, a Wholesale Billing Record Charge applies as defined in Section 18.1.D.

¹ Wide Area Telephone Service (WATS) offering is grandfathered as of July 31, 2020 and limited to existing subscribers at their existing locations.

Section 9 - Miscellaneous Services

9.2 Standard Jacks

Standard jacks are provided by the Telephone Company to connect Registered Equipment to those services subject to the Registration Program as set forth in Technical Reference Publication AS No. 1. The use of jacks is covered in Part 68 of the FCC's Rules and Regulations. Specific jacks are described in the document on file with the FCC entitled "Descriptions of Standard Registration Program Connection Configurations Supplementing Configurations Described in Subpart F of Part 68 of the FCC's Rules and Regulations."

Standard jacks are also provided by the Telephone Company to connect equipment to those services not subject to the Registration Program as set forth in Part 68 of the FCC's Rules and Regulations.

These jacks are used to terminate services provided by the Telephone Company. Other services or facilities provided by the Telephone Company or by others may also be terminated in any spare capacity of the jacks remaining after installation without additional charge for the use of such capacity.

The nonrecurring charges, which include installation, for standard jacks and their typical uses are set forth following:

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 9-5

Section 9 - Miscellaneous Services9.2 Standard Jacks (Cont'd)

	Nonrecurring <u>Charges</u>
9.2.1 <u>Standard Voice Jacks</u>	
A. Miniature Six-Position Jacks	
(1) Single line bridged 4-wire exchange. (T/R,T1,R1)	\$5.33
(2) Single line 2-wire, surface. (T/R)	\$5.48
(3) Single line, 2-wire, wall. (T/R)	\$11.01
(4) Two line, 2-wire, surface. (T1/R1,T2/R2)	\$6.31
(5) Two line 2-wire, wall. (T1/R1, T2/R2)	\$11.50
(6) Two line, 2-wire, sliding cover. (T1/R2, T2/R2, T2)	\$12.70
(7) Single line, 2-wire 9.0 db Data, with Mode Indication leads. (T/R, M1/M1C)	\$11.21
(8) Single line, 2-wire special, for hospital use. (T/R)	\$11.23
(9) Single line, 2-wire with Make Busy leads surface. (T/R, MB/MB1)	\$12.70
(10) Single line, 2-wire, with Make Busy leads wall. (T/R, MB/MB1)	\$12.70
(11) Three line, 2-wire. (T1/R1, T2/R2, T3/R3)	\$12.70

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 9-6

Section 9 - Miscellaneous Services

9.2 Standard Jacks (Cont'd)Nonrecurring
Charges9.2.1 Standard Voice Jacks (Cont'd)

B. Miniature 8-Position Jacks

(1) Single line, 2-wire/4-wire, E & M Type I/II (4, 6 or 8 wire interface). T/R, T1/R1, E/M, SB/SG)	\$15.48
(2) Single line, series, alarm reporting. (T/R, T1/R1)	\$21.72
(3) Single line, series, alarm reporting, with continuity circuit. (T/R, T1/R1, CY1/CY2)	\$16.33
(4) Four line, 2-wire. (T1/R1, T2/R2, T3/R3, T4/R4)	\$15.48

C. Weatherproof Jacks

(1) Single line, for use in locations such as boats and marinas. (T/R, G)	\$27.33

D. Miniature 50-Position Ribbon Connector Jacks

(1) 4-wire, 12 line capacity. (4-wire interface, T/R, T1/R1)	\$29.58
(2) 2-wire, E & M, Type I, 12 line capacity. (4-wire interface, T/R, E/M)	\$29.58
(3) 2-wire, E & M, Type I, 8 line capacity. (6-wire interface, T/R, E/M, SB/SG)	\$29.58
(4) 4-wire, E & M, Type I, 8 line capacity (6-wire interface, T/R, T1/R1, E/M)	\$29.58
(5) 4-wire, E & M, Type II, 6 line capacity. (8-wire interface, T/R, T1/R1, E/M, SB/SG)	\$29.58
(6) 2-wire, make-busy, 12 line capacity. (4-wire interface, T/R, MB/MB1)	\$29.58
(7) 2-wire, 25 line capacity. (2-wire interface, T/R)	\$56.08
(8) 2-wire, series, 12 line capacity. (4-wire interface, T/R IN, T/R OUT)	\$57.41

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 9-7

Section 9 - Miscellaneous Services

9.2 Standard Jacks (Cont'd)

	Nonrecurring Charges
9.2.2 <u>Standard Analog Data Jacks</u>	
A. Miniature 8-position Jacks	
(1) Single line, Universal Data. (T/R-FLL, T/R-PROG, M1/M1C, PR/PC)	\$36.25
(2) Single line, Programmed Data. (T/R-PROG, M1/M1C, PR/PC)	\$26.72
(3) Single line, Programmed Data, with Make-busy leads. (T/R-PROG, MB1/MB2, PR/PC)	\$19.74
B. Multiple Miniature 8-Position Jacks	
(1) Multiple mounting arrangement for Universal Data Jacks, 8 line capacity. Requires 1 RJ41S 8-Position Jack for each line. (T/R-FLL, T/R-PROG, M1/M1C, PR/PC) Requires RJM2X 103-type mounting apparatus. (1 for up to 16 RJ41S jacks)	None
(2) Multiple mounting arrangement for Programmed Data Jacks, 8 line capacity. Requires 1 RJ45S 8-Position Jack for each line. (T/R-PROG, M1/M1C, PR/PC) Requires RJM2X 103-type mounting apparatus. (1 for up to 16 RJ45S jacks)	None
C. Miniature 50-Position Ribbon Connector Jacks	
(1) Multiple interface for Universal Data, 8 line capacity. (T/R-FLL, T/R-PROG, M1/M1C, PR/PC) Requires 1 data circuit pack for each line. Requires 1 of the following mounting kits. - Wall mount - Rack mount	\$154.17 \$39.39 \$43.33 \$20.63
(2) Multiple interface for Programmed Data, 8 line capacity. (T/R-PROG, M1/M1C, PR/PC) Requires 1 RJ45S 8-Position Jack for each line. Requires RJM2X 103-type mounting apparatus. (1 for up to 16 RJ45S jacks) Requires 1 RJA5X Adapter cord for every 8 circuits.	None

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 9-8

Section 9 - Miscellaneous Services9.2 Standard Jacks (Cont'd)

9.2.2	<u>Standard Analog Data Jacks</u> (Cont'd)	Nonrecurring <u>Charges</u>
	D. Related Jack Installation Equipment	
	(1) 103-type mounting apparatus, for use with up to 16 RJ45S jacks	\$184.16
	(2) Adapter cord	\$42.20
9.2.3	<u>Non-Registration Analog Data Jacks</u>	
	A. Miniature 8-Position Keyed Data Jack for Private Line Analog Data Circuits	\$19.74
9.2.4	<u>Standard Digital Data Jacks</u>	
	A. Miniature 8-Position Nonkeyed Data Jacks	
	(1) Single 1.544 Mbps Digital line (T/R, T1/R1)	\$22.18
	(2) Single Digital Data Access line (T/R, T1/R1)	\$11.76
	B. Miniature 50-Position Data Jacks	
	(1) Multiple 1.544 Mbps Digital line, 12 line capacity. (T/R, T1/R1)	\$63.35
	(2) Multiple 1.544 Mbps Digital line 8 line capacity. T/R, T1/R1)	\$22.18
	(3) Multiple Digital Data Access lines 12 line capacity. (T/R, T1/R1)	\$29.58

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 9-9

Section 9 - Miscellaneous Services

9.3 Protective Connecting Arrangements

The following Protective Connecting Arrangement (PCA) is grandfathered and is provided only where already in place in accordance with Part 68 of the FCC's rules and regulations:

<u>Description</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>
Automatic PCA used to connect Telephone Company Switched Access Service arranged for two-way combination service to and from the attendant position and from the dial switching equipment of a CPE system.	\$11.24	\$168.86

Section 9 - Miscellaneous Services

9.4 Restoration Priority

Restoration Priority (RP) was superseded by Telecommunications Service Priority (TSP), as specified in Section 9.6 following on September 10, 1990. Existing RP arrangements for Access Services will remain in effect for thirty (30) months until March 10, 1993. If RP Service is converted to TSP, the customer will incur the Priority Restoration Level Implementation Nonrecurring Charge as specified in 9.6.2 following.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 9-11

Section 9 - Miscellaneous Services

9.5 Individual Case Filings

Rates and Charges for items of Miscellaneous Service are filed following:

<u>Case No.</u>	<u>Customer</u>	<u>Description</u>	<u>Monthly Rates</u>
84002	The Southern New England Telephone Company DBA Frontier Communications of Connecticut	T-Tran Exchange of CABS billing data - Per record Transmitted	 \$.0008

Section 9 - Miscellaneous Services

9.6 Telecommunications Service Priority (TSP) System

9.6.1 Description

Priority installation and/or restoration of National Security Emergency Preparedness (NSEP) telecommunications services shall be provided in accordance with Part 64.401, Appendix A, of the Federal Communications Commission's (FCC's) Rules and Regulations.

The TSP System is a service, developed to meet the requirements of the Federal Government as detailed in the NSEP Service Vendor Handbook, which provides the regulatory, administrative and operational framework for the priority installation and/or restoration of NSEP telecommunications services. These include both Switched and Special Access Services. The TSP System applies only to NSEP telecommunications services, and requires and authorizes priority action by the Telephone Company providing such services.

The TSP System's applicability is limited to Services which the Telephone Company can discreetly identify for priority provisioning and/or restoration.

Some of the elements required for the TSP System are included in other sections of this tariff as general service offerings. They have been repeated in this section to reflect the complete TSP System with appropriate references to those other sections of the tariff for regulations, rates and charges.

The customer for TSP System Service also must be the same customer for the Access Service with which it is associated.

Under certain conditions it may be necessary to preempt one or more customers 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. Credit allowance for such service preemption shall be made in accordance with the provisions set forth in 2.11.5 preceding concerning Temporary Surrender of a Service.

The customer, in obtaining TSP System service, acknowledges and consents to the provision of certain customer service record information by the Telephone Company to the Federal Government, as specified in the TSP Service Vendor Handbook, in order for the Government to maintain and administer its overall TSP System. This customer service record information will include only TSP Authorization Code and Telephone Company Circuit/Service ID.

Section 9 - Miscellaneous Services

9.6 Telecommunications Service Priority (TSP) System (Cont'd)

9.6.1 Description (Cont'd)

When Priority Restoration Maintenance and Administration, as defined in the TSP Service Vendor Handbook, is discontinued (Revocation of Assigned Restoration Priority), and the associated Access Service is continued in service, no charge applies for such a discontinuance.

Credit allowance for service interruption for Priority Restoration Maintenance and Administration shall be the same as for the Access Service with which it is associated as set forth in 2.11.2 preceding.

Certain activities associated with the TSP System performed by the Telephone Company are as follows:

- (a) Priority Installation Invocation includes System Start up, Verification, Confirmation and Preemption.
- (b) Priority Restoration Level Implementation includes System Start up, Verification and Confirmation.
- (c) Priority Restoration Level Change includes Verification and Confirmation.
- (d) Priority Restoration Maintenance and Administration includes Reconciliation and Preemption.

The customer, in obtaining a Priority Restoration, recognizes that quoting charges and obtaining permission to proceed with the restoration of certain Access Services will cause unnecessary delays.

In subscribing to Restoration Priority service the customer recognizes this condition and grants the Telephone Company the right to quote charges after the restoration has been completed.

Existing Restoration Priority (RP), as delineated in Section 9. following will remain in effect for thirty (30) months (until March 10, 1993). If RP Service is converted to TSP, the customer will incur the Priority Restoration Level Implementation Nonrecurring Charge as specified in 9.6.2, following.

Section 9 - Miscellaneous Services

9.6 Telecommunications Service Priority (TSP) System (Cont'd)

9.6.2 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 under the provisions of this tariff, which operate in conjunction with the TSP System. This includes, but is not limited to, Maintenance of Service as set forth in 6.5 preceding.

<u>Charges</u>	Monthly	Nonrecurring <u>Rates</u>
(1) Priority Installation (PI) of an Access Service - Invocation includes System Start-up, Verification, Confirmation And Preemption*		
Prime Service Vendor	None	\$113.59
Subcontractor	None	\$113.59
(a) Expedited (Emergency or Essential)	Regulations, rates and charges are the same as those set forth in 3.4.2 preceding for the Switched or Special Access Service for which PI is required.	
(b) Utilizing Specially Constructed Facilities	Regulations, rates and charges are the same as those set forth in this Company's Tariff F.C.C. No. 7 for Special Construction of the facilities for Switched or Special Access Service for which PI is required.	

* When an Access Service is ordered with both PI and PR, the associated nonrecurring charge for PR applies.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 9-15

Section 9 - Miscellaneous Services

9.6 Telecommunications Service Priority (TSP) System (Cont'd)9.6.2 Rates and Charges (Cont'd)

	Monthly <u>Rates</u>	Nonrecurring <u>Charges</u>
(2) Priority Restoration (PR) Level Implementation on an Access Service includes System Start-up		
(a) When PR level is implemented - includes System Start-up Verification and Confirmation*		
Prime Service Vendor	None	\$101.82
Subcontractor	None	\$101.82
(b) When the PR level is changed on an associated working Access Service - includes Verification and Confirmation		
Prime Service Vendor	None	\$6.47
Subcontractor	None	\$6.47
(c) Administrative and maintenance of PR Service - includes Reconciliation and Preemption		
Prime Service Vendor	\$8.82	None
Subcontractor	\$8.82	None

* When an Access Service is ordered with both PI and PR, the associated nonrecurring charge for PR applies.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 9-16

Section 9 - Miscellaneous Services

9.7 Reserved For Future Use

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 9-17

Section 9 - Miscellaneous Services

9.7 Reserved For Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 9-18

Section 9 - Miscellaneous Services

9.7 Reserved For Future Use (Cont'd)

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Section 9 - Miscellaneous Services

9.8 Zero Minus Transfer (0-) Service

9.8.1 Description

Zero Minus Transfer (0-) enables the transfer of end user dialed 0- calls to an IC of the end user's choice by the Telephone Company's operator over trunk(s) dedicated to OTransfer. The call is considered transferred when the operator activates the switch transferring the call to the designated customer.

9.8.2 Technical Specifications

Separate dedicated FGD originating trunk(s) are required to carry this traffic. The requirements for the trunk(s) and installation provisions are set forth in Section 4 preceding.

The interface groups, NCI codes and transmission specifications for this service are set forth in the Telephone Company's Interstate Access Tariff FCC No. 11.

A design layout report of the makeup of the facilities and services provided under this section of the tariff will be provided to the customer by the Telephone Company upon specific request at no charge. The report will be updated whenever the facilities provided for the customer are materially changed.

Trunk side switching is provided only from Telephone Company offices equipped to provide OTransfer. These locations will provide trunk answer and disconnect supervisory signaling.

9.8.3 Telephone Company Obligations

The Telephone Company will provide 0- Transfer from its Operator Service Position System (OSPS) location(s) as specified in the National Exchange Carrier Association, Inc., F.C.C. No. 4.

The Telephone Company operator will deliver end user requests for intralata service to the customer location in the lata of the customer's end user subject to the rates and charges set forth following.

0- Transfer traffic will be routed from the OSPS location to the(Z) customer location via the customer's FGD trunk(s) equipped with modified Operator Services Signaling. The Telephone Company will provision FGD facilities as set forth in Section 4 preceding and will specify the OSPS location(s), which provide 0- Transfer.

Section 9 - Miscellaneous Services

9.8 Zero Minus Transfer (0-) Service (Cont'd)

9.8.3 Telephone Company Obligations (Cont'd)

All rates and charges normally applicable to FGD service apply when such trunks are used to transport an end user's request for 0-Transfer Service from the end user location to the customer location. In addition, charges as specified following apply to each end user request for intralata operator service transferred to the customer.

9.8.4 Customer Obligations

When ordering 0-Transfer, the customer shall determine and specify the number of new or additional FGD trunk(s) equipped with operator services signaling desired to carry customer operator services end user requests for intralata service from the OSPS location to the customer location as specified preceding.

The customer must order capacity sufficient to handle end user operator services requests for intralata service originating from all Telephone Company end offices of the OSPS serving area where 0-Transfer is requested.

9.8.5 Rates and Charges

In addition to the rates and charges set forth in Section 4 preceding for Feature Group D Access Service per minute of use, the following rates and charges apply.

	<u>Rate</u>
- O-Transfer, per call	\$0.29
- O-Transfer, Installation Charge per path provided for the customer's use to the OSPS location	Charges are the same as those for Switched Access Service trunks, as set forth in Section 4.

Section 9 - Miscellaneous Services

9.9 Billing Name and Address Service (BNA)

Billing name and Address (BNA) Service is the provision of the complete billing name, street address, city or town, state and zip code for a telephone number assigned by the Telephone Company.

At the request of the customer, or its authorized billing agent (agent), the Telephone Company will provide BNA to the customer or agent, from Telephone Company record systems. Such BNA is provided for the sole purpose of permitting the customer to bill its telecommunications services to its end users and may not be resold; used for marketing activity such as market surveys or direct marketing by mail or telephone; or used for any other purpose, other than order entry, customer service, fraud protection and identification of customers who relocate.

BNA is normally associated with a telephone number assigned to a customer and can have one or more telephone numbers combined with the BNA for billing purposes. BNA may or may not be the listed name and address or the location of the customer's exchange telephone service.

9.9.1 General

BNA Service is provided on both a manual and a mechanized basis. On a manual basis, the information will be provided by mail. On a mechanized basis, the information will be entered on magnetic tape.

BNA information is furnished for sent-paid, collect, and bill to third number messages that are resident in the Telephone Company's database.

9.9.2 Undertaking of the Telephone Company

Subject to procedures established for Customer Account Record Exchange (CARE), the Telephone Company will provide information on a request basis as set forth in (A) through (E) following at the rates set forth in 9.9.5 following:

- (A) Upon request from an authorized supervisor of the customer or its agent, who furnishes the Personal Identification Number (PIN) assigned by the Telephone Company, the Telephone Company will provide BNA information on a manual basis.

A request for BNA information should be mailed to the Telephone Company. The Telephone Company will provide the response by First Class U.S. Mail within ten business days.

Section 9 - Miscellaneous Services

9.9 Billing Name and Address Service (Cont'd)

9.9.2 Undertaking of the Telephone Company (Cont'd)

- (B) Upon receipt of a magnetic tape, the Telephone Company will, at the request of the customer or its agent, provide BNA Service on a mechanized basis. The Telephone Company will enter the BNA information on the tape and send the tape to the customer or its agent by First Class U.S. Mail. Other methods of transmitting the data may be negotiated, and charges based on cost will apply.

The Telephone Company will provide a response to customer-provided tapes by First Class U.S. Mail within ten business days of receipt.

- (C) The Telephone Company will specify the format in which requests and tapes are to be submitted.
- (D) The BNA information will be provided for the calling number furnished to the extent a billing name and address exists in the Telephone Company Customer Records Information System (CRIS). If the billing name and address is confidential due to legal, national security, end user or regulatory imposed requirements, the Telephone Company will provide an indicator on the confidential records.
- (E) The Telephone Company will provide the most current BNA information resident in its database. Due to normal end user account activity, there may be some instances where the BNA information provided is not the BNA that was applicable at the time the message was originated.

9.9.3 Obligations of the Customer

When BNA is ordered by the customer or its agent, the customer will order BNA through established CARE procedures, and in accordance with the terms as set forth in (A) through (E) following.

- (A) With each order for BNA Service, the customer or its agent, shall identify the authorized individual and address to receive the BNA information. Further, when BNA Service on a manual basis is ordered, the customer will identify in writing and include the PIN assigned by the Telephone Company of all authorized individuals who will contact the Telephone Company.

Section 9 - Miscellaneous Services

9.9 Billing Name and Address Service (Cont'd)

9.9.3 Obligations of the Customer (Cont'd)

- (B) A customer or agent that orders BNA Service on a mechanized basis and intends to submit tapes for processing must provide the Telephone Company with an acceptable test tape.
- (C) The customer shall institute adequate internal procedures to insure that BNA information is used only for the purpose set forth in this tariff and that BNA information is available only to those customer personnel or agents with a need to know the information. The customer or agent must handle all billing name and address information designated as confidential by the Telephone Company in accordance with the Telephone Company's procedures concerning confidential information. The Telephone Company will provide to the customer or agent a statement of its procedures concerning confidential information.
- (D) The customer or agent shall not publicize or represent to others that the Telephone Company jointly participates with the customer or agent in the development of the customer's end user records, accounts, databases or market data, records, files or other systems it assembles through use of BNA Service.
- (E) When the customer or agent orders BNA Service for both interstate and intrastate messages, the projected interstate percentage of use (PIU) must be provided in a whole number (a number of 0 through 100) to the Telephone Company. The Telephone Company will derive the projected intrastate percentage of use number by subtracting the projected interstate percentage provided by the customer from 100 (100 - customer PIU = intrastate percentage).

This whole number percentage will be used by the Telephone Company to determine the appropriate jurisdiction for the application of rates and nonrecurring charges for BNA Service.

The BNA PIU must be provided to the Telephone Company upon ordering service, and thereafter, on a quarterly basis. Provisions for updating the interstate and intrastate jurisdictional report as specified in Section 2.7.4, preceding will also apply for the BNA PIU report. The Telephone Company will utilize the quarterly BNA PIU report to update the BNA Service effective on the next bill date for the service. For those cases in which a quarterly report is not received from the customer or agent, the Telephone Company will assume the percentages to be the same as those provided in the order for the service.

Section 9 - Miscellaneous Services

9.9 Billing Name and Address Service (Cont'd)

9.9.4 Rate Regulations

- (A) Service Establishment Charges apply for the initial establishment of BNA Service on a manual basis and for the initial establishment of BNA Service on a mechanized basis.

- (B) A charge applies for each inquiry for BNA information for a telephone number on a manual basis. A charge applies for each inquiry to supply BNA information on a mechanized basis.

The charge applies for all inquiries including but not limited to record not found, duplicate request, invalid request, and invalid information.

The Telephone Company will keep a count of the requests processed. The Telephone Company will bill the customer or agent in accordance with these counts whether or not the Telephone Company was able to provide BNA information for all requests.

- (C) The percentages provided in the reports as set forth in 13.9.3 (E) preceding will serve as the basis for prorating the charges. The interstate charges are determined as follows:

- (1) For the Service Establishment Charge, multiply the interstate percent times the stated tariff rate.
- (2) For usage sensitive (i.e., requests or messages processed) chargeable rate elements, multiply the interstate percent times actual use times the stated tariff rate.

- (D) When a customer cancels an order for BNA Service after the order date, the Service Establishment Charge will apply.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 9-25

Section 9 - Miscellaneous Services

9.9 Billing Name and Address Service (Cont'd)9.9.5 Rates and Charges

(A) <u>BNA Service - Manual Basis</u>	Nonrecurring Charge
Service Establishment Charge	\$610.00
	<u>Rate</u>
Per Telephone Number	\$1.30
(B) <u>BNA Service - Mechanized Basis</u>	Nonrecurring Charge
Service Establishment Charge	\$3,150.00
	<u>Rate</u>
Per Telephone Number	\$0.0370000

9.10 PSP ANI Coding Digits

PSP ANI Coding Digits is a service available, where facilities permit, to Payphone Service Providers. (PSPs). PSP Automatic Number Identification (ANI) Coding Digits provide interexchange carriers information indicators in the signaling stream that will uniquely identify calls originating from a payphone. These information indicators may be used for tracking the receipt of payphone calls to facilitate per call compensation to PSPs.

The PSP ANI Coding Digits will be billed per month, per payphone access line over a forty-eight month period beginning August 1, 1999 and ending July 31, 2003. The charge will be assessed to payphone lines in service as of the customer's monthly billing date.

9.10.1 <u>Rates and Charges</u>	<u>Rate per Month</u>
Per Payphone Access Line	\$3.00

Section 10 - Special Construction

10.1 General

This section describes the various charges and liabilities that may apply when the Telephone Company provides special construction of facilities in accordance with an order for service. Written approval of all liabilities and charges must be provided to the Telephone Company prior to the start of construction.

10.1.1 Conditions Requiring Special Construction

Special construction is required when 1) facilities are not available to meet an order for service, and 2) the Telephone Company constructs facilities, and 3) one or more of the following conditions exist:

- The Telephone Company has no other requirement for the facilities requested.
- It is requested that service be furnished using a type of facility, or via a route, other than that which the Telephone Company would normally utilize in furnishing the requested service.
- More facilities are requested than would normally be required to satisfy an order.
- It is requested that construction be expedited, resulting in added cost to the Telephone Company.

Section 10 - Special Construction

10.2 Maximum Termination Liability and Termination Charge

A Maximum Termination Liability is equal to the non-recoverable costs associated with specially constructed facilities and is the maximum amount which could be applied as a Termination Charge if all specially constructed facilities were discontinued before the Maximum Termination Liability expires.

The liability period is equal to the average life of the account associated with the specially constructed facilities. The liability period is generally expressed in terms of an effective and expiration date.

The Maximum Termination Liability is filed with the initial tariff filing in decreasing amounts at ten-year intervals over the average account life of the facilities. In the event that the average account life of the facilities is not an even multiple of ten, the last increment will reflect the appropriate number of years remaining.

Example Illustrating a 27-Year Average Account Life

<u>Maximum Termination Liability</u>	<u>Effective Date</u>	<u>Expiration Date</u>
\$10,000	6/1/84	6/1/94
7,000	6/1/94	6/1/04
3,000	6/1/04	6/1/11

Prior to the expiration of each liability period, the customer has the option to (a) terminate the special construction case and pay the appropriate charges, or (b) extend the use of the specially constructed facilities for the new liability period.

The Telephone Company will notify the customer six months in advance of the expiration date of each ten-year liability period. The customer must provide the Telephone Company with written notification at least 30 days prior to the expiration of the liability period if termination is elected. Failure to do so will result in an automatic extension of the special construction case to the next liability period at the filed Maximum Termination Liability amount.

Section 10 - Special Construction

10.2 Maximum Termination Liability and Termination Charge (Cont'd)

A Termination Charge may apply when all services using specially constructed facilities which have a tariffed Maximum Termination Liability are discontinued prior to the expiration of the liability period. The charge reflects the unamortized portion of the non-recoverable costs at the time of termination, adjusted for net salvage and possible reuse. Administrative costs associated with the specific case of special construction and any cost for restoring a location to its original condition are also included. A Termination Charge may never exceed the filed Maximum Termination Liability.

A partial termination of specially constructed facilities will be provided, at the election of the customer. The amount of the Termination Charge associated with such partial termination is determined by multiplying the termination charge which would result if all services using the specially constructed facilities were discontinued, at the time partial termination is elected, by the percentage of specially constructed facilities to be partially terminated. A tariff filing will be made following a partial termination to list remaining Maximum Termination Liability amounts and the number of specially constructed facilities the customer will remain liable for.

Example

A customer with a filed Maximum Termination Liability of \$100,000 for 3600 specially constructed facilities requests a partial termination of 900 facilities. The Termination Charge for all facilities, at the time of election, is \$60,000. The partial termination charge, in this example, is $\$60,000 \times 900/3600$, or \$15,000.

Section 10 - Special Construction

10.3 Annual Underutilization Liability and Underutilization Charge

Prior to the start of special construction, the Telephone Company and the customer will agree on (1) the quantity of facilities to be provided, and (2) the length of the planning period during which the customer expects to place the facilities in service. The planning period is referred to as the Initial Liability Period (ILP). The ILP is listed in the tariff with an effective and expiration date.

Underutilization occurs only if, at the expiration date of the ILP and annually thereafter, less than 70 percent of the specially constructed facilities are in service at filed tariff services rates.

An annual underutilization liability amount is filed on a per unit basis (e.g., per cable pair) for each case of special construction. This amount is equal to the annual per unit cost and includes depreciation, maintenance, administration, return, taxes and any other costs identified in the supporting documentation provided at the time the special construction case is filed.

Upon the expiration of the ILP, the number of underutilized facilities, if any, are multiplied by the annual underutilization liability amount. This product is then multiplied by the number of years (including any fraction thereof) in the ILP to determine the underutilization charge.

Annually thereafter, the number of underutilized facilities, if any, existing on the anniversary of the ILP expiration date will be multiplied by the annual underutilization liability amount to determine the underutilization charge for the preceding 12 month period.

Example

A customer orders 100 services and the special construction of a 600 pair building riser cable is agreed to, based on the customer's 5 year facility requirements. The ILP, in this example, would be filed at 5 years. The annual underutilization liability is filed at \$2.00 per pair. If 400 pairs were in service at the end of the ILP, there would be an underutilization of 20 pairs i.e., 420 (70% of 600) - 400 = 20. The total underutilization charge for the first 5 years would be \$200.00, or \$2.00 per pair x 20 pairs x 5 years.

If 420 pairs are in service at the end of the 6th year, there is no underutilization, i.e., $420 - 420 = 0$.

Section 10 - Special Construction

10.4 Types of Liabilities and Charges

10.4.1 Lease Charge

This charge applies when the Telephone Company leases equipment in order to meet service requirements. The amount of the charge is equal to the net added cost to the Telephone Company caused by the lease.

10.4.2 Cancellation Charge

If a service order with which special construction is associated is cancelled prior to the start of service, a cancellation charge will apply. The charge will include all non-recoverable costs incurred by the Telephone Company in associated with the special construction up to and including the time of cancellation.

10.4.3 Deferral of Start of Service

The Telephone Company may be requested to defer the start of service which will use specially constructed facilities subject to the provisions set forth in the service tariffs under which service is being provided. Requests for special construction deferral must be in writing and are subject to the following regulations.

A. Construction Has Not Begun

If the Telephone Company has not incurred any installation costs before receiving a request for deferral, no charge applies.

B. Construction Has Begun

If the construction of facilities has begun before the Telephone Company receives a request for deferral, charges will vary as follows:

(1) All Services Are Deferred

When all services which will use specially constructed facilities are deferred, a charge based on the costs incurred by the Telephone Company during each month of the deferral will apply. Those costs include the recurring costs for that portion of the facilities already completed and any other costs associated with the deferral. The cost of any components of the nonrecurring charge, which have been completed at the time of deferral will also apply.

(2) Some Services Are Deferred

When some services which will use the specially constructed facilities are deferred, the construction case will be completed and all special construction charges will apply.

Section 10 - Special Construction

10.4 Types of Liabilities and Charges (Cont'd)

10.4.3 Deferral of Start of Service (Cont'd)

C. Construction Complete

If the construction of facilities has been completed before the Telephone Company receives a request for deferral, all special construction charges will apply.

10.5 Definitions

Actual Cost - The term "Actual Cost" denotes all costs charged against a specific case of special construction, including any appropriate taxes.

Annual Underutilization Liability - The term "Annual Underutilization Liability" denotes a per unit amount which may be billed annually if fewer services are in use utilizing specially constructed facilities at filed tariff rates than were originally specially constructed.

Average Account Life - The term "Average Account Life" denotes the depreciation life prescribed by Federal Communications Commission for each class of telephone plant.

Estimated Cost - The term "Estimated Cost" denotes all estimated costs that will be incurred in providing a specific case of special construction, including any appropriate taxes.

Facilities - The term "Facilities" denotes any cable, poles, conduit, microwave or carrier equipment, wire center distribution frames, central office switching equipment, etc., utilized to provide intrastate services as offered under tariffs referenced in this tariff.

Section 10 - Special Construction

10.5 Definitions (Cont'd)

Initial Liability Period - The term "Initial Liability Period" denotes the initial planning period during which the customer expects to place specially constructed facilities in service.

Installed Cost - The term "Installed Cost" denotes the total investment (estimated or actual) required by the Telephone Company to provide specially constructed facilities.

Maximum Termination Liability Period - The term "Maximum Termination Liability Period" denotes the length of time during which a termination charge may apply if all services using specially constructed facilities are terminated. The liability period is equal to the average account life of the specially constructed facilities. When the construction involves multiple classes of plant with differing lives, the liability period is equal to the weighted average of the account lives involved in the special construction case, using non-recoverable investment as the basis for weighting.

Example

\$20,000, \$10,000 and \$5,000 non-recoverable investments with average account lives of 8, 18 and 25 years, respectively, are involved in the same special construction case. The maximum termination liability period would be 13.3 years.

20,000 x 8 = 160,000	465,000 = 13.3
10,000 x 18 = 180,000	35,000
5,000 x 25 = 125,000	
35,000 465,000	

The duration of the maximum termination liability period will be specified in the tariff.

Net Salvage - The term "Net Salvage" denotes the estimated scrap, sale, or trade-in value, less the estimated cost of removal. Cost of removal includes the costs of demolishing, tearing down, or otherwise disposing of the material and any other applicable costs. Since the cost of removal may exceed salvage value, net salvage may be negative.

Section 10 - Special Construction

10.5 Definitions (Cont'd)

Non-recoverable Cost - The term "Non-recoverable Cost" denotes the cost of specially constructed facilities for which the Telephone Company has not foreseeable use should the service be terminated.

Normal Construction - The term "Normal Construction" denotes all facilities the Telephone Company would normally use to provide service in the absence of a request for special construction.

Normal Cost - The term "Normal Cost" denotes the estimated cost to provide services using normal construction.

Permanent Facilities - The term "Permanent Facilities" denotes facilities providing service for one month or more.

Recoverable Cost - The term "Recoverable Cost" denotes the cost of the specially constructed facilities for which the Telephone Company has a foreseeable reuse, either in place or elsewhere, should the service be terminated.

Termination Charge - The term "Termination Charge" denotes the portion of the Maximum Termination Liability that is applied as a nonrecurring charge when all services are discontinued prior to the expiration of the specified liability period.

10.6 Ownership of Facilities

The Telephone Company provided specially constructed facilities under provisions of this section shall remain the property of the Telephone Company.

Section 11 - Directory Assistance Service

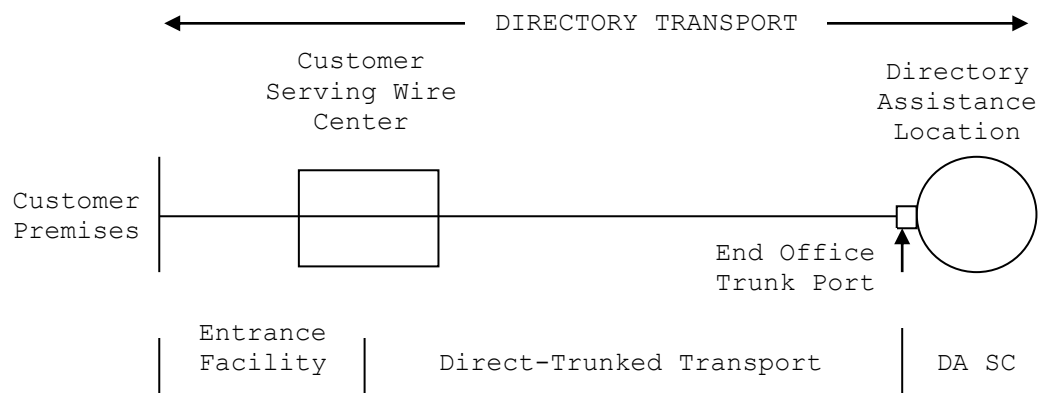
11.1 General

Directory Assistance (DA) Service provides access to DA locations, use of DA location equipment to distribute calls to DA operators, and the use of DA operators to provide telephone listing information.

At the option of the customer, DA Service may be provided for both interstate and intrastate communications. When the customer requests such mixed access, the interstate DA Service charges will be determined by the Telephone Company using the data furnished by the customer as set forth in Section 2.

There are two rate categories which apply to DA Service: a flat DA Service call charge and Directory Transport charges. Directory Transport provides the transmission facilities and terminations to transport calls in the terminating direction from the customer premises to the DA location. Directory Transport can be either flat or usage rated and uses Switched Transport facilities as set forth in Section 4.2.1.

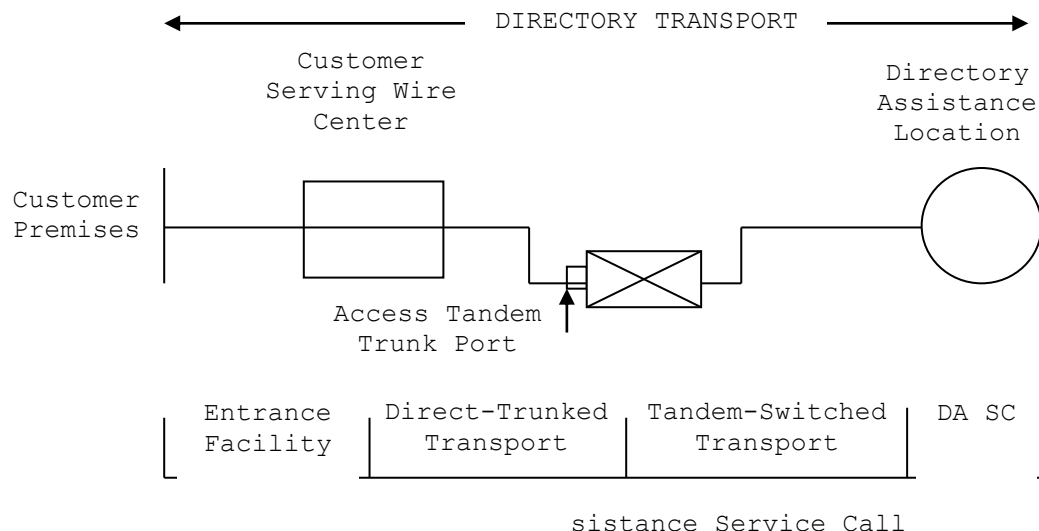
The following diagrams show the rate categories that apply to Directory Assistance Service.

1. Direct-Trunked Transport - DA

DA SC: Directory Assistance

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Section 11 - Directory Assistance Service

11.1 General (Cont'd)2. Tandem-Switched Transport - DA11.2 Undertak any

Upon receipt of a request for telephone listing information from a customer's end user, the Telephone Company DA operator will access the Telephone Company DA records, files, and in some circumstances special files, to provide the requested information. The Telephone Company DA operator will not transfer, forward or redial a customer's end user call to any other location for any purpose other than provision of DA Service.

A maximum of two (2) requests for telephone listing information will be accepted per call to the DA operator.

Telephone listing information, which is not listed in DA records will not be available to the customer's end user.

The Telephone Company's contact with the customer's end user shall be limited to that effort necessary to process a request for telephone listing information. The Telephone Company will not transfer, forward or redial a customer's end user call to any other location for any purpose other than provision of DA Service.

The Telephone Company will specify the DA location, which provides the DA Service for each Numbering Plan Area (NPA) code. When it becomes necessary, as determined by the Telephone Company, to change a DA location, the Telephone Company will notify the involved customers six months prior to the change. The regulations for such changes are set forth in Section 2.

Section 11 - Directory Assistance Service

11.3 Service Description11.3.1 General

Directory Assistance Transport is provided between the customer's premises and a particular DA location using Switched Transport facilities as set forth in Section 4.2.1. These facilities include:

- Entrance Facility for the transport of the DA Service call from the customer's premises to the Telephone Company's serving wire center.
- Direct-Trunked Transport for the transport of the DA Service call from the customer's serving wire center to the DA location without aggregating any other type of traffic on the facility. An associated Digital End Office Trunk Port is required for the trunks into DA.
- Tandem-Switched Transport for the transport of the DA Service call utilizing Direct-Trunked Transport to the Telephone Company Access Tandem and Tandem Switched Transport between the Telephone Company Access Tandem and, Directory Assistance location.
- When Tandem routed to the DA location, Directory Common Trunk Port and Directory Common Transport Mux are applicable.

When required by the Telephone Company, a separate DA Service trunk group will be provided for DA Service for each NPA. Separate trunk groups will be required when the Telephone Company notifies the customer that the mechanized search of its data base and its mechanized operator practices require a mechanized identification of the NPA code for which the customer's end user desires DA information.

When a Telephone Company access tandem is used to provide DA Service, the DA Service will be provided, at the option of the Telephone Company, either as a separate DA Service trunk group or in combination with FGB or FGD Switched Access Service.

11.3.2 Directory Transport

Directory Transport is a two-way voice frequency transmission path comprised of any form or configuration of plant capable of, and typically used in, the telecommunications industry for the transmission of voice and associated telephone signals within the frequency band width of approximately 300 to 3000 Hz.

Section 11 - Directory Assistance Service

11.3 Service Description11.3.2 Directory Transport (Cont'd)

For purposes of determining mileage, the distance for Direct-Trunked Transport-DA is measured from the customer's SWC to the DA location(s) or the Telephone Company Access Tandem as set forth in National Exchange Carrier Association, Inc. Tariff No. 4 and for Tandem-Switched Transport-DA mileage is calculated from the Telephone Company Access Tandem to the DA location.

The customer may order the DA Service to be routed directly to a DA location or through a Telephone Company access tandem switch appropriately equipped for DA measurement and served by DA trunks to the DA location. The combination of FGB or FGD Switched Access Service with DA Service will only be provided at available and appropriately equipped Telephone Company access tandem switches.

Trunk side switching is provided at the DA access location. The DA access location will provide trunk answer and disconnect supervisory signaling.

When Directory Transport is provided using a direct route to the DA location, no address signaling is provided.

When Directory Transport is provided via a Telephone Company access tandem, wink start pulsing signaling is provided at the Telephone Company access tandem. The customer shall address each call to the DA location using 555-1212. Only NPA codes handled by the DA location served by the Telephone Company access tandem switch will be processed.

The number of Directory Transport transmission paths provided is based on the customer's order and is determined by the Telephone Company in the same manner as Switched Access Service transmission paths as set forth in Section 4.

Section 11 - Directory Assistance Service

11.3 Service Description (Cont'd)11.3.3 Transmission Specifications

DA Service is provided with either Type A or B Transmission Specification parameters which are guaranteed to the DA location, whether routed directly or via a Telephone Company access tandem. Type B Transmission Specification is provided with Voice Grade (4-wire), DS1 or DS3 when routed direct to a DA location. Type A Transmission Specification is provided with Voice Grade (4-wire), DS1 or DS3 when routed via a Telephone Company access tandem switch.

When DA Service is combined with FGD Switched Access Service, Type A Transmission Specification is provided. When DA Service is combined with FGB, Type B Transmission Specification is provided for Voice Grade (4-wire), DS1 or DS3.

11.3.4 Directory Transport Interface Groups and Customer Premises Interface Codes

Switched Access Service Voice Grade (4-wire) DS1 or DS3, as set forth in the Telephone Company's Interstate Access Tariff FCC No. 11, are also available for DA Service.

11.3.5 Network Channel Interface (NCI) Codes

When DA Service is combined with FGB or FGD Switched Access Service, the interface code will be the interface code provided for the FGB or FGD ordered by the customer.

Additional information regarding these NCI codes may be found in Section 4.

Section 11 - Directory Assistance Service

11.4 Obligations of the Customer

The customer shall order DA Service as defined in Section 3.6.3.

When DA Service is initially ordered, the customer shall order the service for at least three months.

The necessary on-hook and off-hook supervision shall be provided by the customer's equipment.

When separate DA trunk groups are required, as set forth in Section 11.3, the customer shall order a separate DA Service trunk group for each NPA.

Section 11 - Directory Assistance Service

11.5 Rate Regulations11.5.1 Charges

There are three rate categories which apply to Directory Assistance service:

- DA Service Call
- DA Transport
- DA Interconnection Charge

In addition, Switched Access nonrecurring charges may apply as specified in 4.3.1.

A. DA Service Call

The DA Service call charge applies for each DA call which is answered by, or forwarded to a DA operator. The number of calls answered by or forwarded to DA operators will be accumulated by Telephone Company measuring equipment.

A credit for the provision of an incorrect telephone number will be applied as set forth in Section 2.

B. Directory Transport

The Directory Transport rate category provides for the transmission facilities and transport termination used for DA Access Service in transporting a call between the customer's premises and the DA location.

The Directory Transport charge is composed of three subcategories:

- Entrance Facilities, and
- Direct-Trunked Transport including End Office Trunk Ports, or
- Direct-Trunked Transport to a Telephone Company Access Tandem, Access Tandem Trunk Ports, and Tandem-Switched Directory Transport (which is composed of a Tandem Switched Transmission rate, Directory Common Transport Mux, Directory Common Trunk Port, a Tandem-Switching Rate)

Rates for Directory Transport are specific to the subcategory being provided and are described below:

(1) Entrance Facility

A monthly rate applies to each Entrance Facility provided for DA Access Service based on capacity (Voice Grade, DS1 or DS3).

The monthly rate for the Entrance Facility applies only when the Entrance Facility is dedicated to DA Access Service. When DA Access Service is provided over a Switched Transport Entrance Facility that combines both DA Access Service and Switched Access Service, only one Entrance Facility charge applies.

Section 11 - Directory Assistance Service

11.5 Rate Regulations (Cont'd)11.5.1 Charges (Cont'd)B. Directory Transport (Cont'd)(2) Direct-Trunked Transport

For each Direct-Trunked Transport facility provided for DA Access Service, a fixed monthly rate and a monthly rate per mile based on capacity apply.

The monthly rates for Direct-Trunked Transport apply only when the Direct-Trunked Transport facility is dedicated to DA Access Service. When DA Access Service is provided over a Switched Transport Direct-Trunked Transport facility to a Telephone Company Access Tandem that combines both DA Access Service and Switched Access Service (i.e., some of the channels in the facility transport only DA Access Service and other channels in the facility transport only Switched Access Services), only one Direct-Trunked Transport rate applies.

An End Office Trunk Port is required for the trunk terminations for DA. The End Office Trunk Port for DA is Digital and has the bandwidth to accommodate twenty-four DA trunks.

(3) Tandem-Switched Directory Transport

For each Tandem-Switched Transport facility provided for DA Access Service, a Directory Tandem Transmission Charge and a Directory Tandem-Switching charge applies except for terminating Feature Group A where the Directory Tandem-Switching charge does not apply.

Directory Tandem Transmission

A per call rate and a per call per mile rate applies to each DA call which has been answered by or forwarded to a DA operator when the transport was provided using a Tandem-Switched Transport facility.

Directory Tandem-Switching

A rate per call applies to each DA call which has been answered by or forwarded to a DA operator when the transport was provided using a Tandem-Switched Transport facility.

Section 11 - Directory Assistance Service

11.5 Rate Regulations (Cont'd)

11.5.1 Charges (Cont'd)

B. Directory Transport (Cont'd)

(3) Tandem-Switched Directory Transport (Cont'd)

Directory Common Transport Mux

A rate per call applies to each DA call, which has been answered by or forwarded to a DA operator when the transport was provided using a Tandem-Switched Transport facility.

Directory Common Trunk Port

A rate per call applies to each DA call, which has been answered by or forwarded to a DA operator when the transport was provided using a Tandem-Switched Transport facility.

Access Tandem Trunk Port

A monthly rate applies to each Access Tandem Port provided at the Access Tandem. When DA Access Service is provided over an Access Tandem Trunk Port that combines both DA Access Service and Switched Access Service, only one Access Tandem Trunk Port charge applies.

C. DA Interconnection Charge

The DA Interconnection Charge is assessed to all customers who interconnect with the Telephone Company's DA locations and is applied on a per DA call basis.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 11-10

Section 11 - Directory Assistance Service

11.6 Rates and Charges

	<u>Rate</u>
A. <u>DA Call</u> , each	\$0.27
B. <u>DA Transport</u>	
(1) Direct-Trunked Transport - DA	Charges are the same as those for Switched Access Service, Entrance Facilities, Direct-Trunked Transport, End Office Trunk Ports, and Trunks as set forth in Section 4.
(2) Tandem-Switched Transport - DA	Charges are the same as those for Switched Access Service as set forth in Section 4.
	<u>Rate</u>
a) Directory Tandem Transport Termination - per call	\$.000088
b) Directory Tandem Transport Facility - per call per mile	\$.000010
c) Directory Tandem-Switching - per call	\$.001570
d) Directory Common Transport Mux - per call	\$.000235
e) Directory Common Trunk Port - per call	\$.000644
C. <u>DA Interconnection Charge</u>	
- per call	\$.000

Section 12 - Dedicated Signaling Transport

12.1 General

The Common Channel Signaling network is a packet switched communications network that allows for exchanging signaling and/or other information between processor equipped signaling systems on separate communications paths (out of band) from the voice and data communications. The protocol for Common Channel Signaling (Dedicated Signaling Transport) is the Consultative Committee for International Telephone and Telegraph (CCITT) and the American National Standards Institute (ANSI) SS7 signaling protocol.

Section 12 - Dedicated Signaling Transport

12.2 Service Description12.2.1 Dedicated Signaling Transport (DST)

Dedicated Signaling Transport (DST) is a Switched Access service, which provides interconnection to the Telephone Company Common Channel Signaling Network using a dedicated two-way signaling path between a customers designated premises and a Telephone Company Signal Transfer Point (STP). The Telephone Company STPs, which are utilized for Line Information Data Base (LIDB) Validation Service, are located in Hartford and New Haven, Connecticut, as forth in the National Exchange Carrier Association Inc. Tariff F.C.C. No. 4. DST uses a dedicated signaling link and a dedicated STP port. The signaling link provides the connection from the customer designated premises to the Telephone Company STP. The STP port provides the customer access to the Telephone Company SS7 network.

The signaling link and the STP port are dedicated to the customer.

Each signaling link provides for two-way digital transmission at a speed of 56 kbps. The connection to the Telephone Company STP will be made from the customer's STP which requires four 56 kbps circuits. The design requirements for signaling links are described in Technical Publication TR-TSV-000905.

The customer may utilize an existing DS1 (1.544 Mbps) facility for DST. If the customer does not have existing DS1 (1.544 Mbps) facilities available for use with DST and does not want to order a DS1 Channel, the Telephone Company will provide an STP Access Connection between the customer designated premises and the Telephone Company Hub. When a DS1 Channel or an STP Access Connection is utilized by the customer, multiplexing from 1.544 Mbps to 56 kbps will occur at the designated Telephone Company Hub.

DST allows the customer to access Telephone Company services as they become available and as facilities permit. DST provides connection from the customer's STP to the Telephone Company STPs only.

Diversity will be provided as mutually agreed upon by the Telephone Company and the customer based upon availability from the customer's STP location to the Telephone Company's STP. Regulations and charges for diversity will apply, as specified in Section 7 of this Tariff.

One STP Port Termination is required for each 56 kbps STP Access Mileage link utilized for DST.

Section 12 - Dedicated Signaling Transport

12.2 Service Description (Cont'd)12.2.2 Line Information Data Base (LIDB) Validation Service

LIDB Validation Service is provided by the Telephone Company to its customers in support of alternate billing services (ABS). LIDB Validation Service provides access to billing validation data, which resides on the Telephone Company database for use with alternate billing services. Alternate billing services allow customers' end users the ability to bill calls to an account not necessarily associated with the originating line. LIDB Validation Service supports alternate billing services such as Collect Calls and Third Number Billing.

Customers participating in LIDB Validation Service for purposes of obtaining billing validation data which resides on the Telephone Company database, originate queries to the LIDB from an operator services system (OSS) identified by an originating point code (OPC). The LIDB query is routed through one of two Telephone Company Signal Transfer Points (STPs), located in Hartford and New Haven, Connecticut, to the Telephone Company Service Control Point (SCP) where the LIDB database resides. The requested billing validation data, in the form of a signaling message, is forwarded via one of the two Telephone Company STPs to the customer's designated OSS where the LIDB query originated.

The Telephone Company LIDB will receive and respond to all Billed Number Screening (BNS) queries as defined in Bellcore publications TR-NPL-000246, TR-TSV-000905, and TR-TSV-00954. These procedures will be applied uniformly to all Telephone Company LIDB Validation customers.

LIDB Validation Service will provide the following functions on a per query basis:

- Determination of whether the billed line automatically rejects certain calls billed as collect or third number.
- Determination of whether the billed line in the Billed Number Screening Query is a public or semi-public telephone.

There is one rate category, LIDB Query that applies to LIDB Validation Service. The LIDB Query rate category consists of two rate elements: LIDB Query Transport and LIDB Validation Query. The LIDB Query Transport provides for the transport of the LIDB query from the STPs to the SCPs and back. The LIDB Validation Query provides for the actual validation of the LIDB information.

All access to the Telephone Company's LIDB will occur through two Telephone Company STPs located in Hartford and New Haven, Connecticut. The Telephone Company will provide customer interconnection to the Telephone Company STPs via its Dedicated Signaling Transport (DST) provided in Section 12.2.1, preceding. LIDB Validation customers must obtain transport service from the Telephone Company (i.e., DST) or from another CCS7 signaling transport service provider.

Section 12 - Dedicated Signaling Transport

12.3 Limitations

Unless expressly authorized in writing by the Telephone Company, LIDB Validation Service is not to be used for purposes other than those LIDB functions described in 12.2.2. LIDB Validation Service is used for those functions only on an on-line, call-by-call basis. Data accessed on LIDB may not be stored by the customer elsewhere for future use or utilized for purposes other than described in 12.2.2, preceding.

Proprietary information residing in the Telephone Company LIDB is protected from authorized access and may not be stored in a customer's database for any reason. All information on the LIDB database related to alternate billing services is proprietary.

Examples of proprietary information include, but are not limited to, the following:

- Billed Number
- Personal Identification Number (PIN)
- Primary Interexchange Carrier (PIC) Information
- Billed Number Screening Indicators
- IC Denial Information
- Reports on LIDB Usage
- Information related to billing for LIDB usage

Section 12 - Dedicated Signaling Transport

12.4 Rate Elements

12.4.1 DST Rate Elements

The following rate elements apply to DST:

- STP Access Connection (described in (A) following)
- STP Access Mileage (described in (B) following)
- STP Port Termination (described in (C) following)

A. STP Access Connection

The STP Access Connection rate element provides the transmission facility between the customers designated premises and the Telephone Company Hub.

The STP Access Connection charges are calculated according to mileage band. There are two rates that apply, a fixed monthly rate per mileage band and a monthly rate per mile.

Application of rates and charges is specified in 12.8.2.A.1., following. STP Access Connection is provided at the rates as set forth in 12.9.1.A., following.

B. STP Access Mileage

The STP Access Mileage rate element provides the dedicated 56 kbps transmission facilities between a designated Telephone Company Hub and the Telephone Company STP.

STP Access Mileage is calculated according to mileage band. There are two rates that apply, a fixed monthly rate per mileage band and a monthly rate per mile.

Application of the rate is specified in 12.8.2.A.2., following. STP Access Mileage is provided at the rate as set forth in 12.9.1.A., following.

C. STP Port Termination

The STP Port Termination rate element provides for termination of the dedicated two-way 56 kbps signaling link at the Telephone Company STP. One STP Port Termination must be installed at the Telephone Company STP for each 56 kbps link.

Application of rates and charges is specified in 12.8.2.A.3., following. STP Port Termination is provided at the rates and charges as set forth in 2.9.1.B., following.

Section 12 - Dedicated Signaling Transport

12.4 Rate Elements (Cont'd)12.4.2 LIDB Validation Service Rate Elements

The following rate elements and nonrecurring charge apply to LIDB Validation Service:

- LIDB Query Transport (described in (A) following)
- LIDB Validation Query (described in (B) following)
- LIDB Service Establishment (described in (C) following)

A. LIDB Query Transport

The LIDB Query Transport rate element provides for the routing of the LIDB query through one of two Telephone Company STPs, as designated by the Telephone Company, to the Telephone Company SCPs where the LIDB resides and back.

B. LIDB Validation Query

The LIDB Validation Query rate element provides for the validation of toll billing exception data and performance of public and semi-public telephone checks. For these validation purposes, LIDB Validation Service customers will query the LIDB located in the Telephone Company SCPs via the Telephone Company CCS7 network. The LIDB will respond with a verification signal message back to the LIDB Validation Service customer via the Telephone Company CCS7 network.

Application of the rates is specified in 12.8.2.B.2., following. The LIDB Query Transport and LIDB Validation is provided at the rate as set forth in 12.9.2.A. (1) and (2), following.

C. LIDB Service Establishment

A nonrecurring charge applies for each request for establishment or change of existing LIDB Validation Service. The nonrecurring rate element, LIDB Service Establishment, is on a per Originating Point Code (OPC) basis. Any change in a LIDB OPC will be treated as a discontinuance of the existing OPC and an installation of a new OPC.

The LIDB Service Establishment charge is as set forth in 12.9.2.B., following.

Section 12 - Dedicated Signaling Transport

12.5 Jurisdictional Report Requirements12.5.1 Dedicated Signaling Transport (DST)

When a customer orders DST, the customer shall provide to the Telephone Company a DST percentage interstate usage (PIU).

Customers who provide the PIU information shall supply the Telephone Company with an interstate percentage in a whole number (a number of 0 through 100) per STP Port Termination. This STP Port Termination PIU will be an average PIU based upon the jurisdiction (interstate versus intrastate) of those originating end user calls that require use of the specified STP Port Termination for signaling purposes.

When the customer orders STP Access Connection and/or STP Access Mileage from

The Telephone Company, the Telephone Company will derive the PIU for the STP Access Connection and STP Access Mileage. The STP Access Connection and STP Access Mileage PIU derived by the Telephone Company will be based upon the customer provided PIU for the Port Termination. The projected interstate percentages will be used by the Telephone Company to determine the appropriate jurisdiction for the application of rates and charges of DST.

The DST PIU must be provided to the Telephone Company upon ordering service, and thereafter, on a quarterly basis. Provisions for updating the interstate and intrastate jurisdictional report as specified in Section 2.7.4, preceding will also apply for the DST PIU Report. The Telephone Company will utilize the quarterly DST PIU Report for the STP Port Termination to update the STP Access Connection and STP Access Mileage PIU effective on the next bill date for the service.

Verification provisions as specified in Section 2.7.5, preceding will also apply for the DST PIU Report.

12.5.2 Line Information Data Base (LIDB) Validation Service

When a customer orders LIDB Validation Service, the customer shall provide to the Telephone Company a LIDB percentage interstate usage (PIU).

Customers who provide the PIU information shall supply the Telephone Company with an interstate percentage in a whole number (a number of 0 through 100) per Originating Point Code (OPC) ordered. The LIDB Validation Service PIU will be an average PIU based upon the jurisdiction (interstate versus intrastate) of those originating end user calls for which the Telephone Company LIDB is being queried.

Section 12 - Dedicated Signaling Transport

12.5 Jurisdictional Report Requirements (Cont'd)

12.5.2 Line Information Data Base (LIDB) Validation Service (Cont'd)

The LIDB PIU must be provided to the Telephone Company upon ordering service, and thereafter, on a quarterly basis. Provisions for updating the interstate and intrastate jurisdictional report as specified in Section 2.7.4, preceding will also apply for the LIDB PIU Report.

Verification provisions as specified in Section 2.7.5, preceding will also apply for the LIDB PIU Report.

Section 12 - Dedicated Signaling Transport

12.6 Testing Requirements

In addition to testing services available in Section 6, the following prescribes the testing required for CCSAS and LIDB Validation Service.

A. DST Acceptance Testing Requirements

At no additional charge, the Telephone Company will cooperatively test with the customer, at the time of installation, network compatibility and other operational tests as described in Bellcore Technical References TR-NPL-000246, TR-TSV-000905 and TR-TSV-000954. Successful completion and acceptance of all testing requirements must occur in order to receive DST.

B. LIDB Acceptance Testing Requirements

At no additional charge, the Telephone Company will cooperatively test with the customer, at the time of installation, network compatibility and other operational tests as described in Bellcore Technical References TR-NPL-000246, TR-TSV-000905 and TR-TSV-000954. Successful completion and acceptance of all testing requirements must occur in order to receive LIDB.

Section 12 - Dedicated Signaling Transport

12.7 Obligations of the Telephone Company

In addition to the obligations of the Telephone Company set forth in Section 2, the Telephone Company has certain other obligations pertaining to the provision of LIDB Validation Service. These obligations are as follows:

A. LIDB Data Specifications

The Telephone Company's LIDB will contain a current record for every working line number served by the Telephone Company. Other exchange carriers who may store their data in the Telephone Company LIDB are requested to provide this data as well.

The Telephone Company will update the LIDB information; i.e., add, delete and modify customer accounts as customers move, become delinquent on their account, or order new service, on a same day as received basis. Customer account information may include class of service, subaccount (PIN information), effective dates of account changes, toll-billing exceptions, PIC information, and pending record changes.

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

The Telephone Company utilizes a centralized fraud management center, which provides fraud analysis and on-line ability to update customer account information (e.g. PIN changes, denials, restorals and collect and bill-to-third blocking).

B. Measurement of LIDB Queries

When a LIDB query is received at the Telephone Company's SCP, a search is performed for the requested validation data. The Telephone Company SCP formulates a response and accumulates the LIDB queries for billing.

C. Provision of Billing Information

LIDB Validation Service queries received at the SCP are accumulated and records are generated identifying the number of queries routed to and from the SCP and processed by the OPC of the customer's OSS location. This information is delivered to the accounting office via tape or by teleprocessing for processing and billing. The query charges will be accumulated per OPC and billed to the LIDB Validation Service customer each month.

The Telephone Company will provide information with the bill, which will enable the customer to determine how the billed amount was calculated. Other reports may be provided to the customer as mutually agreed upon. Such reports, provided on an individual case basis, may involve additional rates, charges or conditions.

Section 12 - Dedicated Signaling Transport

12.7 Obligations of the Telephone Company (Cont'd)D. Investigation of Fraudulent Use of Service

End user information, pertinent to the investigation, may be shared with LIDB Validation Service customers where appropriate when validation queries for the specific customer reaches or exceeds Telephone Company established fraud threshold levels. This fraud threshold level will be applied uniformly to all customers. Such information shall be used solely for the purpose of resolving the investigation and shall not be disclosed by the LIDB Validation customer to any other party.

E. LIDB System Management

The Telephone Company will administer its LIDB to insure the provision of acceptable service levels to all customers of the Telephone Company's LIDB Validation Service. During periods of LIDB Validation Service system congestion, an automatic call gapping procedure will be utilized to control such congestion. The automatic call gapping procedure will tell the switch the gap (how long the switch should wait before sending another query) and the duration (how long the switch should continue to perform gapping). For example, during an overload condition, the automatic call gapping procedure will tell the LIDB when to begin to drop one out of three of the queries received. This call gapping procedure will be applied uniformly to all users of the Telephone Company's LIDB Validation Service.

The Telephone Company maintains the right to invoke manual intervention of the automatic call gapping procedure to preserve the integrity of the network.

Section 12 - Dedicated Signaling Transport

12.8 Rate Regulations12.8.1 Description of Rates and Charges

There are two types of rates and charges which apply to CCSAS and LIDB Validation Service. They are monthly recurring rates and nonrecurring charges. These rates and charges are applied differently to the various rate elements as set forth following.

A. Monthly Rates

Monthly rates are either (1) fixed recurring rates that apply each month, or fraction thereof, when a specific service is provided; or (2) usage sensitive rates that apply on a per unit basis, e.g., per query, when a specific service is used.

B. Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation of a service or rearrangement of an existing service).

12.8.2 Application of Rates and ChargesA. DST

Rates and charges for STP Access Connection, STP Access Mileage and the STP Port Termination apply as follows:

1. STP Access Connection

When STP Access Connection is provided, a fixed monthly rate as set forth in Section 12.9.1.A(1)., following, will be assessed for each STP Access Connection between the customer's signaling point of interconnection and the Telephone Company Hub.

A monthly rate per mile applies to each airline mile between the Serving Wire Center of the customer's signaling point of interconnection and the Telephone Company Hub.

A nonrecurring charge applies for the installation of each STP Access Connection.

2. STP Access Mileage

When STP Access Mileage is provided, a fixed monthly rate per mileage band as set forth in Section 12.9.1.A(2)., following, will be assessed for each dedicated 56 kbps out-of-band signaling connection between the Telephone Company Hub where multiplexing from DS1 (1.544 Mbps) to a 56 kbps circuit occurs, and the Telephone Company STP.

Section 12 - Dedicated Signaling Transport

12.8 Rate Regulations (Cont'd)12.8.2 Application of Rates and Charges (Cont'd)A. DST (Cont'd)2. STP Access Mileage (Cont'd)

A monthly rate per mile applies to each airline mile between the Telephone Company Hub, where multiplexing from DS1 (1.544 Mbps) to a 56 kbps circuit occurs, and the Telephone Company STP.

3. STP Port Termination

A monthly rate as set forth in Section 12.9.1.B., following, per STP

Port Termination applies to each termination of the dedicated two-way 56 kbps signaling link at the Telephone Company STP.

A nonrecurring charge as set forth in Section 12.9.1.B., following pper STP Port Termination applies to each termination of the dedicated two-way 56 kbps signaling link at the Telephone Company STP. This nonrecurring charge applies for the installation of and change to existing service.

B. LIDB Validation Service

Rates and charges for LIDB Validation Service apply as follows:

1. LIDB Query Transport

A usage sensitive rate applies to each LIDB query transported from the Telephone Company STP to the SCP location. This rate will apply each time a customer requests and receives the status of a billed number associated with a LEC line stored in the Telephone Company LIDB. Per query charges are accumulated over a monthly period and are billed to the customer on a monthly basis.

2. LIDB Validation Query

A usage sensitive rate applies to each LIDB query request received at the Telephone Company SCP. This rate will apply each time a customer requests and receives the status of a billed number associated with a LEC line stored in the Telephone Company LIDB. Per query charges are accumulated over a monthly period and are billed to the customer on a monthly basis.

Section 12 - Dedicated Signaling Transport

12.8 Rate Regulations (Cont'd)

12.8.2 Application of Rates and Charges (Cont'd)

B. LIDB Validation Service (Cont'd)

3. LIDB Service Establishment Charge

A nonrecurring charge per request for LIDB Validation Service applies for the establishment and change of existing LIDB Validation Service.

The LIDB Service Establishment Charge applies per originating point code (OPC) per request for the establishment of LIDB Validation Service.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 12-15

Section 12 - Dedicated Signaling Transport

12.9 Rates and Charges

12.9.1 Dedicated Signaling Transport (DST)

A. Signaling Link

(1) STP Access Connection (DS1)

	<u>Monthly Rate</u>	
	<u>Fixed</u>	<u>Per Mile</u>
<u>Mileage Band</u>		
0	\$441.05	None
Over 0	\$530.44	\$27.44
	<u>Nonrecurring Charge</u>	
Per First Connection NRBSB	\$612.75	
Per Each Additional NRBSD Connection	\$612.75	

(2) STP Access Mileage (56 Kbps)

	<u>Monthly Rate</u>	
	<u>Fixed</u>	<u>Per Mile</u>
<u>Mileage Band</u>		
0	\$83.20	None
Over 0	\$182.22	\$2.33

B. STP Port Termination

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
Per Port Termination	\$795.00	\$1,200.00

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 12-16

Section 12 - Dedicated Signaling Transport

12.9 Rates and Charges (Cont'd)

12.9.2 LIDB Validation Service

A. <u>LIDB Query</u>	Rate <u>Per Query</u>
1. per LIDB Query Transport	\$.00032
2. per LIDB Validation Query	\$.037702
B. <u>LIDB Service Establishment Charge</u>	Nonrecurring <u>Charge</u>
per Originating Point Code (OPC), per request	\$240.00

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 13-1

Section 13 - Operating Territory of the Telephone Company

- 13.1 The operating territory of the Telephone Company is the geographical area associated with each of the following toll rate centers in the state of Connecticut as described in the Company's tariff filed with the Connecticut Department of Public Utility Control.

<u>RATE CENTER</u>	<u>RATE CENTER</u>	<u>RATE CENTER</u>	<u>RATE CENTER</u>
Ansonia-Derby	Farmington	Mystic	Seymour
Branford	Georgetown	N. Thompson	Sharon
Bridgeport	Glastonbury	Naugatuck	Simsbury
Bristol	Guilford	New Britain	Southington
Canaan	Haddam	New Canaan	Stafford Springs
Canterbury	Hartford	New Haven	Stamford
Canton	Harwinton	New London	Storrs
Cheshire	Huntington	New Milford	Thomaston
Clinton	Jewett City	Newtown	Torrington
Colchester	Kent	Niantic	Trumbull
Columbia	Killingworth	Norfolk	Wallingford
Cornwall	Lakeville	Norwalk	Washington
Coventry	Lebanon	Norwich	Waterbury
Danbury	Ledyard	Old Greenwich	Watertown
Danielson	Litchfield	Old Saybrook	Westport
Darien	Lyme	Pawcatuck	Willimantic
Deep River	Madison	Plainfield	Wilton
E. Hampton	Manchester	Plainville	Windsor
Enfield	Meriden	Putnam	Windsor Locks
Essex	Middletown	Redding	Winsted
Fairfield	Milford	Ridgefield	Wolcott
	Moodus	Rockville	Woodbury

Note: Integration of The Woodbury Telephone Company into Frontier Communications of Connecticut had occurred throughout the month of April 2007. Implementation of the Woodbury wholesale local service offerings contained herein will likewise occur throughout the month of April 2007.

Section 14 - Expanded Interconnection¹14.1 General

- A. Expanded Interconnection provides for the placement of collocator telecommunications equipment and facilities on the Telephone Company property for the purposes set forth in Paragraph C, following.
- B. Physical collocation provides actual space (hereinafter referred to as Dedicated Space) within a Telephone Company Eligible Structure as defined in Section 14.2, following. The collocator will lease the Dedicated Space from the Telephone Company and install certain of its own telecommunications equipment within the Dedicated Space that is necessary for the purposes set forth in Paragraph C, following. The Telephone Company will provide caged collocation for all collocators. For Certified Local Exchange Carrier (CLEC) collocators, shared caged, cageless, and other physical collocation arrangements will be provided within Eligible Structures. When space is Legitimately Exhausted inside an Eligible Structure, the Telephone Company will permit CLEC collocators to collocate in Adjacent Structures in accordance with this Tariff.
- C. Physical collocation is available for the placement of telecommunications equipment necessary for interconnection to Telephone Company network(s) under 47 U.S.C. §251(c)(2) and accessing the Telephone Company's unbundled network elements under 47 U.S.C. §251(c)(3), regardless of whether such equipment includes a switching functionality, provides enhanced services capabilities, or offers other functionalities. The Telephone Company will permit the collocation of equipment such as DSLAMs, routers, ATM multiplexers, and remote switch modules in Telephone Company Eligible Structures. The Telephone Company may not place any limitations on the ability of collocators to use all the features, functions, and capabilities of collocated equipment, including but not limited to, switching and routing features and functions. The Telephone Company may after approval from the Department of Public Utility Control, deny the collocation of equipment that is not necessary for either access to unbundled network elements (UNEs) or for interconnection, such as equipment used exclusively for switching or enhanced services. The collocator will certify in writing to the Telephone Company that the equipment is necessary for interconnection or access to UNEs.

14.2 Definitions

Active Central Office Switchroom Space - Denotes the existing, central office switchroom space, which can be designated for physical collocation, with sufficient infrastructure systems.

¹ The Telco is aware that certain provisions contained in this Tariff may be inconsistent with the Telco's rights as Interpreted by the U. S. Court of Appeals for the D.C. Circuit in GTE et al. v. FCC et al., No. 99-1176, 2000 U.S. App. LEXIS 4111 (U.S.C.A., D.C. Cir. Mar. 17, 2000). The U.S. Court of Appeals for the D.C. Circuit in GTE et al. v. FCC et al. vacated portions of the FCC's Deployment of Wireline Services Offering Advanced Telecommunications Capability, 14 FCC Red 4761 (1999) ("Collocation Order") and remanded that order to the FCC for further consideration. By filing this Tariff, the Telco does not waive any of its rights, remedies or arguments with respect to the court's decision, future decisions, or orders issued by a court of law or the FCC. The Telco specifically reserves its right to amend this Tariff in accordance with all future decisions by either the courts or the FCC to reflect its rights as determined by those authorities. This Tariff is filed at the present time to meet the requirements set forth in the Decision.

Section 14 - Expanded Interconnection

14.2 Definitions (Cont'd)

Adjacent Structure - A collocator provided structure placed on the Telephone Company property adjacent to an Eligible Structure. This arrangement is only permitted when space is Legitimately Exhausted inside the Eligible Structure and to the extent technically feasible.

Augment - A request from a collocator to add equipment and/or cable to an existing physical collocation arrangement.

Custom Work Charge - Denotes the unique charges associated with providing a collocator-specific request (via a standard custom work order) for the Telephone Company provided installation of physical structures and the Telephone Company provided labor. Custom Work Charges are optional and will be developed solely at the request of a collocator.

Dedicated Space - Denotes the space dedicated for the collocator's physical collocation arrangement located in the Telephone Company Eligible Structure.

Eligible Structure - Eligible Structure refers to the Telephone Company's central offices and serving wire centers, as well as all buildings or similar structures owned or leased by the Telephone Company that house its network facilities, and all structures that house the Telephone Company's facilities on public rights-of-way, including but not limited to vaults containing loop concentrators or similar structures.

Infrastructure Systems - The structural components, such as floors capable of supporting equipment loads, heating, ventilating and air conditioning (HVAC) systems, electrical systems (AC/DC power), high efficiency filtration, humidity controls, remote alarms, abatement of hazardous building materials (asbestos, lead paint), or implementation of approved alternative work practices, compartmentation and smoke purge.

Legitimately Exhausted - For the purposes of determining when Adjacent Structure collocation provisions are applicable, an office is considered Legitimately Exhausted when the Telephone Company denies a collocation request due to space constraints on an uncontested basis; or if contested, the closure is upheld by the Department of Public Utility Control (Department).

Other Central Office Space - Denotes the space within the central office which can be designated for physical collocation where infrastructure systems do not currently exist and must be constructed.

Preparation Charges - Denotes those charges associated with the initial preparation of the collocator's Dedicated Space.

Unused Space - Denotes any space in an Eligible Structure that is not occupied by Telephone Company personnel and/or occupied by or reserved for Telephone Company network equipment. May also be used to denote space within a specific collocator's area that is not occupied by or reserved for collocator's equipment.

Section 14 - Expanded Interconnection

14.3 Service Description

Expanded Interconnection is available in Telephone Company serving wire centers as specified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4. Interconnection must be made in accordance with provisions specified in Level 1 safety requirements as set forth in Bellcore/Telcordia Network Equipment and Building Specifications (NEBS) and the American National Standards Institute (ANSI) publication ANSI T1.315-1994, Noise Returned from Telecommunications Load Equipment requirement for network safety.

Expanded Interconnection includes a license to occupy physical space and associated requirements such as power and environmental conditioning within a Telephone Company serving wire center. The collocater may use collocated space solely for the purposes of installing, maintaining and operating telecommunications equipment used and useful for either interconnection or access to unbundled network elements as provided by the Telephone Company in accordance with Sections 4, 5, and 18 of this Tariff.

The Telephone Company will provide Expanded Interconnection to the following types of Special Access Service as specified in Section 5, and Section 22.

High Capacity Service

- 1.544 Mbps
- 44.736 Mbps (Electrical)

Optical Carrier Network (OCN) Point-to-Point Service

- 155.52 Mbps, 622.08 Mbps, 2488.32 Mbps, 9953.28 Mbps
- 1 Gigabit Ethernet

Upon receipt of a bona fide request for Expanded Interconnection to other Special Access services, the Telephone Company will make a tariff filing within 45 days of receipt of the bona fide request to be effective upon 45 days notice.

The Telephone Company will provide Expanded Interconnection to the following types of Switched Access Service as specified in Section 4:

- DS1 (1.544 Mbps) Interface
- DS3 (44.736 Mbps) Interface (Electrical)

The Telephone Company will provide Expanded Interconnection to the following types of Local Exchange Access Service as specified in Section 18 of this Tariff.

- DS1 (1.544 Mbps) Interface
- DS3 (44.736 Mbps) Interface (Electrical)
- Copper cable Voice Grade/ISDN
- Copper "shielded" cable/ADSL

The furnishing of Expanded Interconnection pursuant to this Tariff shall be deemed to be the provision of a service subject to the applicable provisions of this Tariff, including, but not limited to, the applicable provisions contained in Section 1, Application of the Tariff, and Section 2, General Regulations. For the purposes of the application of the provisions of Section 2.4D to Expanded Interconnection, the term "customer premises" shall be deemed to include the Dedicated Space assigned to the collocater, as well as customer facilities located in the space. Notwithstanding the foregoing, the provisions of Sections 2.4 (Telephone Company Liability) and 2.5 (Obligations of the Customer) shall not apply to the furnishing of Expanded Interconnection insofar as they relate to Liability or Indemnification and shall be replaced by Section 14.4.

Section 14 - Expanded Interconnection

14.4 Liability and IndemnificationLiability

No Consequential Damages - Neither, the Telephone Company nor the collocator shall be liable to the other party for any indirect, incidental, consequential, reliance, or special damages suffered by such other party (including without limitation damages for harm to business, lost revenues, lost savings, or lost profits suffered by such other party), regardless of the form of action, whether in contract, warranty, strict liability, or tort, including without limitation negligence of any kind whether active or passive, and regardless of whether the party knew of the possibility that such damages could result. Each party hereby releases the other party (and such other party's subsidiaries and affiliates, and their respective officers, directors, employees and agents) from any such claim. Provided, however, that nothing contained in this section shall limit the Telephone Company's or the collocator's liability to the other for (i) willful or intentional misconduct (including gross negligence); or (ii) bodily injury, death or damage to tangible real or tangible personal property or the environment proximately caused by the Telephone Company's or the collocator's negligent act or omission or that of their respective agents, subcontractors, employees, assigns or licensees. Nor shall anything contained in this section limit the parties' indemnification obligations, as specified below.

Indemnification

The Telephone Company and the collocator shall mutually indemnify and hold harmless the other party as specified below. Each Party (the "Indemnifying Party") shall indemnify and hold harmless the other Party ("Indemnified Party") from and against any loss, cost, claim, liability, damage, expense (including reasonable attorney's fees) brought or claimed by a third party that relates to or arises out of the gross negligence or intentional acts or omissions of the Indemnifying Party, its agents, subcontractors, employees, assigns or licensees in connection with Expanded Interconnection. In addition, the Indemnifying Party shall, to the extent of its gross negligence or intentional acts or omissions, defend any action or suit brought by a third party against the Indemnified Party for any loss, cost, claim, liability, damage, or expense relating to or arising out of gross negligence or intentional acts or omissions of the Indemnifying Party, its agents, subcontractors, employees, assigns or licensees in connection with Expanded Interconnection. The Indemnifying Party shall have sole authority to defend or settle any claims. The Indemnified Party shall notify the Indemnifying Party promptly in writing of any written claims, lawsuits, or demands by third parties for which the Indemnified Party alleges that the Indemnifying Party is responsible hereunder and tender the defense of such claim, lawsuit or demand to the Indemnifying Party. The Indemnified Party also shall cooperate in every reasonable manner with the defense or settlement of such claim, demand, or lawsuit at the Indemnifying Party's sole expense. The Indemnifying Party shall not be liable hereunder for settlements by the Indemnified Party of any claim, demand, or lawsuit unless the Indemnifying Party has approved the settlement in advance or unless the defense of the claim, demand, or lawsuit has been tendered to the Indemnifying party in writing and the Indemnifying Party has failed promptly to undertake the defense.

Section 14 - Expanded Interconnection

14.4 Liability and Indemnification (Cont'd)Indemnification (Cont'd)

Subscribing to Expanded Interconnection does not convey to the collocator any right, title or interest in the Telephone Company central office facility, the partitioned space, partitioned space enclosure, cable space, cable racking, vault space or conduit space. Expanded Interconnection Service shall not be deemed to provide third parties with any remedy, claim, liability, reimbursement, claim of action or other right.

Any assignment by the collocator of any right, obligation or duty, in whole or in part, or of any other interest hereunder, without the expressed written consent of the Telephone Company, shall be void. Provided upon the acquisition or merger of the collocator, the Telephone Company shall not unreasonably withhold or delay its consent to the collocator's assignment hereunder to the successor company.

14.5 Fiber Optic Cable and Demarcation Point

- A. The collocator shall use a fire retardant dielectric fiber cable as the transmission medium to the Dedicated Space or, where technically and structurally feasible, may use microwave. Collocation requests utilizing facilities other than fiber will be provided on an Individual Case Basis (ICB). The Telephone Company will only permit other transmission media where the collocator can demonstrate to the Telephone Company that use of such media will not impair the Telephone Company's ability to service its own customers or subsequent collocators.

The Telephone Company shall provide a minimum of two separate points of entry into the Eligible Structure in which the Dedicated Space is located wherever there are at least two entry points for the Telephone Company cable. The Telephone Company will also provide nondiscriminatory access to any entry point into Eligible Structures in excess of two points in those locations where the Telephone Company also has access to more than two such entry points. Where such dual points of entry are not immediately available, the Telephone Company shall perform work as is necessary to make available such separate points of entry for the collocator at the same time that it makes such separate points of entry available for itself. In each instance where the Telephone Company performs such work in order to accommodate its own needs and those specified by the collocator in the collocator's written request, the collocator and the Telephone Company shall share the costs incurred by pro-rating those costs using the number of conduit ducts used in the entry point by both the Telephone Company and the collocator(s) in the first twelve (12) months. Fiber entrances will consider the number of innerducts placed per duct to develop costs.

- B. The collocator is responsible for bringing its facilities to the entrance manhole(s) designated by the Telephone Company, and leaving sufficient length in the cable in order for the Telephone Company to fully extend the collocator-provided facilities through the cable vault to the Dedicated Space.

Section 14 - Expanded Interconnection

14.6 Application for Service

Customers who choose to subscribe to Expanded Interconnection should request the service through their normal Telephone Company point of contact. The point of contact will provide the customer an Expanded Interconnection Application through which the customer must identify its requirements for space and associated requirements such as power and environmental conditioning, and any other matters of a special nature pertaining to the customer's occupancy.

The Telephone Company will provide physical collocation arrangements in Eligible Structures on a "first come, first served" basis. To apply for a dedicated space in a particular eligible structure, the collocater will provide a completed Physical Collocation Application form found in the Southern New England Telephone Company's Collocation Services Handbook for Physical Collocation and will pay appropriate fees.

These fees shall recover the costs of processing the application, initial determination of space and related factors, and engineering design that will be provided by the Telephone Company to accommodate the individual collocater's requirements as delineated in the customer's Expanded Interconnection application and associated project coordination. The engineering design charge represents the initial design and engineering labor associated with planning the requirements for floor space, AC power, DC Power, entrance facilities, conduit and riser capacity. No portion of the Application Fee shall be refunded if the customer withdraws its application. The order of priority of each customer's request shall be determined by the date and time of receipt by the Interexchange Carrier Service Center (ICSC) of the Physical Collocation Application and necessary fees.

A CLEC requesting the Telephone Company to consider multiple methods for collocation in an Eligible Structure on a single application will need to include in each application a prioritized list of its preferred methods of collocating, e.g., caged, shared, cageless, or other as well as adequate information, (e.g., specific layout requirements, cage size, number of bays, requirements relative to adjacent bays, etc.) for the Telephone Company to process the application for each of their preferred methods. If a CLEC provides adequate information and its preferences with its application, the Telephone Company will not require an additional application, nor will the CLEC be required to restart the quotation interval should their first choice not be available in an Eligible Structure. CLECs who only request the Telephone Company to consider one collocation method need not provide preferences and associated specific information for multiple methods. However, if the Telephone Company is unable to provide the CLEC's requested collocation method due to space constraints and the CLEC determines that it wants the Telephone Company to consider an alternative method of collocation, the CLEC's fees for project coordination and engineering design will be refunded. The CLEC will then be required to submit an additional application along with the necessary fees for the alternative method. This application will restart the collocation intervals. Upon receipt of the collocater's application and application fee payment, the Telephone Company will begin development of the quotation.

Section 14 - Expanded Interconnection

14.6 Application for Service (Cont'd)

The Telephone Company will notify the collocator as to whether its request for collocation space has been granted or denied due to a lack of space within ten (10) days of submission of the completed application.

The customer shall have 65 days from receipt of the quotation and notice that the space and associated requirements are available to accept the quotation by: (1) remitting to the Telephone Company 50% of the total amount of the Site Preparation Charges, and (2) providing to the Telephone Company a letter of intent signed by a duly authorized representative of the customer, that specifies the work to be done. Dedicated Space is not reserved until the quotation is accepted. If the Telephone Company does not receive the payment and letter of intent from the customer within the 65 day period, the Physical Collocation Application shall become void, and the project coordination and engineering design fees will be refunded. Upon receipt of 50% of the total amount of the Site Preparation Charges and a signed letter of intent, the Telephone Company shall begin the work required to provide Expanded Interconnection in the Eligible Structure.

14.7 Types of Available Physical Collocation Arrangements

The Telephone Company will make each of the arrangements outlined below available within its Eligible Structures in accordance with this Tariff:

14.7.1 Caged Physical Collocation

The Telephone Company will provide, in any unused space, all collocators with caged physical collocation that provides an individual enclosure (not including a top) for the collocator to install its equipment within that dedicated space. The dedicated space is an area designated by the Telephone Company within an Eligible Structure for the sole purpose of installing, maintaining and operating the collocator-provided equipment. The Telephone Company will not require collocators to use an intermediate interconnection arrangement, (i.e., a Point of Termination (POT) frame). The collocator may order space in standard increments of 50 square feet. When unused space within an Eligible Structure reaches a point wherein a 50 square foot caged area is not available, the Telephone Company will provide space in increments less than 50 square feet where technically feasible subject to the safety requirements specified herein, adequate ingress and egress, heat dissipation, and any national, state or local codes. Rates for increments under 50 square feet will be determined on an ICB basis.

Section 14 - Expanded Interconnection

14.7 Types of Available Physical Collocation Arrangements (Cont'd)14.7.2 Shared Caged Physical Collocation

The Telephone Company will make shared collocation cages available to new entrants that jointly and cooperatively submit related applications for the same cage. A shared collocation cage is a caged Dedicated Space shared by two (2) or more collocators pursuant to the terms and conditions agreed to and between the collocators. In making shared cage arrangements available, the Telephone Company will not increase the cost of site preparation or nonrecurring charges above the cost of provisioning such a cage of similar dimensions and material to a single collocator. The Telephone Company will prorate the charge for site conditioning and preparation undertaken to construct the shared collocation cage or condition the space, and allocate that charge to each collocator based upon the percentage of total space used by each collocator. The Telephone Company will not place unreasonable restrictions on a collocator's use of a shared cage and will charge each collocator only for those costs directly attributable to that collocator. If two (2) or more collocators that have interconnection agreements with the Telephone Company use a shared collocation cage, the Telephone Company will permit each collocator to order UNEs to and provision service from that shared collocation cage. All collocators are bound by the terms and conditions of this Tariff.

14.7.3 Sub-Leasing Space

The Telephone Company will allow a collocator to contract with other collocators to use a cage in a sub-lease type arrangement. In a sub-leased arrangement, the initial collocator shall charge any such co-locator no more than the prorated share (based on square footage used exclusively or in common) of the Telephone Company's charges to the initial collocator. All collocators, including those who are sub-leasing the caged space, are bound by the terms and conditions of this Tariff. The Telephone Company will not place unreasonable restrictions on a collocator's use of a Sub-Leased Space and will charge each collocator only for those costs directly attributable to that collocator. Each collocator may order UNEs to and provision service from the sub-lease arrangement.

14.7.4 Cageless Physical Collocation

The Telephone Company will provide, in any unused space, CLEC collocators with a designated entrance to the central office premises, and once inside, collocators will have direct access to their equipment, without constructing a new entrance. The Telephone Company will make cageless physical collocation space available in single-bay increments. The Telephone Company will not require collocators to use an intermediate interconnection arrangement, (i.e., a POT frame). The Telephone Company may, at its option, take reasonable steps to protect its own equipment, such as enclosing it with a wall or cage separating it from the cageless physical collocation space.

Section 14 - Expanded Interconnection

14.7 Types of Available Physical Collocation Arrangements (Cont'd)14.7.4 Cageless Physical Collocation (Cont'd)

If there is not sufficient space for the Telephone Company to separate its equipment from the cageless physical collocation space by a wall or cage, the Telephone Company may separate its equipment from the collocator equipment by tape on the floor or other markings that are not physical separations. Accordingly, the Telephone Company will not provide a collocator's personnel or agents with direct access to the Telephone Company's distribution frames.

14.7.5 Adjacent Space Collocation

When space is Legitimately Exhausted inside a Telephone Company Eligible Structure, the Telephone Company will permit CLEC collocators to physically collocate in adjacent controlled environmental vaults or similar structures to the extent technically feasible. The Telephone Company will permit collocators to construct or otherwise procure such adjacent structure, subject only to reasonable safety and maintenance requirements, and zoning and other state and local regulations. The collocator will be responsible for securing the required licenses and permits, the required site preparations, and retain responsibility for building and site maintenance associated with placing the adjacent structure. The Telephone Company reserves the right to assign the location of the designated space on the Telephone Company premises where the adjacent structure will be placed. The collocator will be allowed to provide equipment installed within the Adjacent Structure.

The Telephone Company will provide 100 AMPS of AC power up to 200 cable feet from the Central Office main house service panel to the Adjacent Structure when main house service panel AC capacity exists. The Telephone Company will provide DC Power with two cable options, which allow increments of 20, 40, 50, 100 and 200 AMPS to the Adjacent Structure up to 200 cable feet from the Eligible Structure power source. When power requirements are outside of the office capacity and distance limitations, the Telephone Company will treat the requirements as an ICB and coordinate a mutually agreeable solution for provisioning power with the collocator. At its option, the collocator may choose to provide its own AC and DC power to the adjacent structure. The Telephone Company will provide physical collocation services to such adjacent structures, subject to the same requirements as other collocation arrangements in this Tariff. Appropriate charges applicable for collocation within the Eligible Structure will apply. The Telephone Company will work cooperatively with the collocator to relocate facilities into the Eligible Structure.

14.7.6 Other Physical Collocation Arrangements

The Telephone Company will provide, for CLECs, other collocation arrangements that have been demonstrated to be technically feasible on other incumbent local exchange carrier (ILEC) premises, unless the Telephone Company's Eligible Structure cannot support the arrangement because of either technical reasons or lack of space. Deployment by any ILEC of a collocation arrangement gives rise to a rebuttable presumption in favor of a CLEC seeking collocation in the Telephone Company's Eligible Structures that such an arrangement is technically feasible in the case of substantially similar network premises or points.

Section 14 - Expanded Interconnection

14.8 Space Availability Determination and Resolution

- A. If the collocator chooses and submits the fee for a Physical Collocation Space Availability Report, the Telephone Company will, within ten (10) days of the submission of the application, submit to the collocator a report indicating The Telephone Company's available collocation space in a particular Eligible Structure. The report will specify the amount of collocation space available at each requested Eligible Structure, the number of collocators, and any modification in the use of the space since the last report. The report will also include measures that The Telephone Company is taking to make additional space available for collocation. When initially denying a collocation request by a collocator, the Telephone Company will provide the Commission with a copy of the denial provided to the collocator unless the collocator waives the necessity for such filing. This report and the associated Physical Collocation Space Availability Space Report Fee may be waived by the collocator during the application process.
- B. In the event that The Telephone Company denies a collocation request due to space constraints, the Telephone Company will notify the collocator that its application for Dedicated Space is denied due to the lack of space. The notification will also include a possible future space relief date, if applicable. At that time, any nonrecurring charges collected with the application, except the application fee, will be returned to the collocator.

The Telephone Company will, at the same time, forward a copy of the letter denying the collocator's request to the Department. In the event of a denial, the Telephone Company will concurrently submit to both the Department and the collocator, in support of its denial, provided under seal and subject to proprietary protections: central office common language identifier, where applicable; the identity of the requesting collocator, including amount of space requested by the collocator; the total amount of space at the premises, floor plan usage, identification of switch turnaround plans and other equipment removal plans and timelines, if any; central office rearrangement/expansion plans, if any; and description of other plans, if any, that may relieve space exhaustion.

In the event that the Telephone Company denies a collocation request due to space constraints, the collocator may request a tour of the entire Eligible Structure in question without charge, and such tour shall take place within ten (10) days of the denial of space.

If, after the tour of the Eligible Structure, the Telephone Company and the collocator disagree about whether space limitations at the Eligible Structure make collocation impractical, either party may submit such matter to the Department for review. In an office where the Department has concurred that space is not available, the Telephone Company will conduct a review of all requests denied due to floor space availability in that same central office every six (6) months.

The Telephone Company will maintain a publicly available document, posted for viewing on the Telephone Company's Internet site, indicating all Telephone Company Eligible Structures that are full, and will update such document within ten days of the date at which a Telephone Company Eligible Structure runs out of physical collocation space.

Section 14 - Expanded Interconnection

14.9 Obligations of the Collocator

- A. The collocator requesting physical collocation is responsible for obtaining any necessary certifications or approvals from the Department prior to the Telephone Company's provision of physical collocation. The Telephone Company will consider an application for collocation space submitted by a CLEC while that CLEC's state certification is pending.
- B. All equipment to be collocated in The Telephone Company's Eligible Structures shall meet Level 1 safety requirements as set forth in Bellcore/Telcordia Network Equipment and Building Specifications (NEBS) and the American National Standards Institute (ANSI) publication ANSI T1.315-1994, Noise Returned from Telecommunications Load Equipment requirement for network safety but The Telephone Company may not impose safety requirements on the Collocators that are more stringent than the safety requirements it imposes on its own equipment. The Telephone Company may not deny collocation of Collocator's equipment because the equipment fails to meet NEBS reliability standards. The Telephone Company will publish, at least quarterly, a list of all network equipment installed within the network areas of its facilities with the previous twelve (12) months that fails to meet the Level 1 safety requirements of Bellcore NEBS, and update the list as needed to keep it current. In the event that The Telephone Company believes that the collocated equipment will not be or is not being used for interconnection or access to unbundled network elements or determines that the Collocator's equipment does not meet NEBS Level 1 safety requirements, the Collocator will be given ten (10) days to comply with the requirements or remove the equipment from the collocation space subject to the approval of The Department. If the parties do not resolve the dispute, The Telephone Company or Collocator may file a complaint with The Department seeking a formal resolution of the dispute.
- A. The collocator will be responsible for accepting delivery, installation and maintenance of its equipment within the collocated space. The collocator may not construct improvements or make alterations or repairs to the collocated space without the prior written consent of The Telephone Company.
- D. The collocator will be responsible for servicing, supplying, repairing, installing and maintaining the following in accordance with the provisions below.
 - 1. The fiber optic entrance cable(s)
 - 2. The customer's equipment located in the serving wire center collocated space
 - 3. The connection cable and associated equipment, which may be required between the collocated space and the point(s) of termination

The collocator will bring its fiber optic cable to the serving wire center entrance manhole and leave sufficient length of dielectric, plenum rated, fire retardant fiber optic cable in order for the Telephone Company to be able to fully extend such cable through to the vault and to the collocated space. See Section 14.5 of this Tariff.

Section 14 - Expanded Interconnection

14.9 Obligations of the Collocator (Cont'd)

D. (Cont'd)

Only Telephone Company personnel shall be permitted to extend the collocator's fiber optic cable to the cable vault and deliver the cable to the customer's collocated space. This work shall be performed at rates and charges specified in Section 14.16 of this Tariff.

If a trouble is isolated to the portion of the collocator's fiber optic cable between the entrance manhole and the collocated space, the customer shall be required to provide a replacement cable, which the Telephone Company shall extend to the collocated space as specified above.

14.10 Security

Protection of the Telephone Company's equipment is crucial to its ability to offer service to its customers. Therefore, the Telephone Company may impose the following reasonable security measures on collocators to assist in protecting its network and equipment from harm. The Telephone Company may impose security arrangements as stringent as the security arrangements the Telephone Company maintains at its own Eligible Structures either for its own employees or for authorized contractors. To the extent existing security arrangements are more stringent for one group than the other, the Telephone Company may impose the more stringent requirements. Except as provided by the FCC's Order released March 31, 1999 in CC Docket No. 98-147 (FCC 99-48), the Telephone Company will not impose more stringent security requirements than these. The Telephone Company will not impose discriminatory security requirements that result in increased collocation costs without the concomitant benefit of providing necessary protection of the Telephone Company's equipment. The Telephone Company will not use any information collected in the course of implementing or operating security arrangements for any marketing or other purpose in aid of competing with collocators.

- A. Collocators will conduct background checks of their personnel and technicians who will have access to the collocation space. Collocator technicians will be security qualified by the collocator and will be required to be knowledgeable of the Telephone Company security standards.

Collocator personnel and technicians will undergo the same level of security training, or its equivalent, that the Telephone Company's own employees and authorized contractors must undergo. The Telephone Company will not, however, require collocators to receive security training from the Telephone Company, but will provide information to collocators on the specific type of training required. Collocators can then provide their employees with their own security training. Qualification program and security training details shall be included in the Telephone Company's Technical Publications.

Section 14 - Expanded Interconnection

14.10 Security (Cont'd)

- B. Collocators and the Telephone Company will each establish disciplinary procedures up to and including dismissal or denial of access to the Eligible Structure and other the Telephone Company property for certain specified actions that damage, or place the equipment, facilities, or the network or personnel of the collocators or the Telephone Company in jeopardy. The following are actions that could damage or place the Eligible Structure, or the network or the personnel of the collocators or the Telephone Company in jeopardy and may justify disciplinary action up to and including dismissal or the denial of access to the Eligible Structure and other the Telephone Company property:
1. Theft or destruction of the Telephone Company's or collocator's property;
 2. Use or attempted use/sale of alcohol or illegal drugs on Telephone Company property;
 3. Industrial espionage;
 4. Threats or violent acts against other persons on Telephone Company property;
 5. Knowing violations of any local, state or federal law on Telephone Company property;
 6. Permitting unauthorized persons access to Telephone Company or collocator's equipment on Telephone Company property;
 7. Carrying a weapon on Telephone Company property. In addition, collocator and the Telephone Company will take appropriate disciplinary steps as determined by each party to address any violations reported by the Telephone Company or the collocator of the Telephone Company's policies and practices on security, safety, network reliability, and business conduct as defined in Southern New England Telephone Company's Collocation Services Handbook for Physical Collocation in Connecticut, provided the Handbook and any and all updates to it are timely provided to collocator.
- C. Collocators will provide indemnification as set forth in Section 14.4 of this Tariff and insurance as set forth in Section 14.13 to cover any damages caused by the collocator's technicians at a level commensurate with the indemnification and insurance provided by the Telephone Company authorized contractors with equivalent access. The indemnification provisions and requirements are reciprocal to the Telephone Company as well.
- D. The Telephone Company may use reasonable security measures to protect its equipment, including enclosing its equipment in its own cage, security cameras or other monitoring devices, badges with computerized tracking systems, identification swipe cards, keyed access, and/or logs, as appropriate for the Eligible Structures where physical collocation will take place. The Telephone Company's enclosure of its own equipment will not be a basis for a claim that space is Legitimately Exhausted.

Section 14 - Expanded Interconnection

14.10 Security (Cont'd)

- E. Collocators will have access to their collocated equipment twenty-four (24) hours a day, seven (7) days a week, without a security escort. The Telephone Company will not delay a collocator's entry into an Eligible Structure or access to its collocated equipment. The collocator shall provide the Telephone Company with notice at the time of dispatch of the collocator's own employee or contractor to an Eligible Structure and, if possible, no less than thirty (30) minutes notice for a manned structure and sixty (60) minutes notice for an unmanned structure. The Telephone Company will provide collocators with reasonable access to restroom facilities and parking.

14.11 Intervals

- A. Price quote intervals are as follows and will run concurrent with the ten (10) day notification interval for availability of space:

Number of Applications By	Quotation Interval
One Collocator	
1 - 5	10 Business Days
6 - 20	25 Business Days

Should the collocator submit 21 or more applications within five (5) days, the quotation interval will be increased by five (5) days for every five (5) additional applications or fraction thereof. Any material revision to an application will be treated as a new application and will be subject to the time intervals set forth above.

A collocator may obtain a shorter interval for the return of price quotes than that set forth above by scheduling a meeting with the Telephone Company at least 20 days prior to submission of the first application to discuss, coordinate and prioritize the collocator applications.

B. Revisions

All revisions to an initial request for a physical collocation arrangement submitted by the Collocator must be in writing via a new application form. A new interval for the physical collocation arrangement will be established which shall not exceed two months, if the revision is major. A major revision will include: adding telecommunications equipment that requires additional electrical power; changes in the configuration of the cage; an increase of 10% or more of the square footage of the cage area requested; adding design and engineering requirements above those which the Telephone Company normally deploys and practices (i.e., redundancy of certain mechanical and electrical systems); and accelerating the project schedule. However, minor revisions will not require that a new interval be established. Examples of minor revisions include: adding bays of equipment that do not significantly impact the existing/proposed electrical systems; adding light fixtures and outlets which do not exceed the capacity of the existing/proposed electrical system; changes in the configuration of the cage which do not significantly impact the overall design of the space; and adjustments to the heat release projection which do not cause a change in the proposed/existing mechanical system.

The Collocator will be required to pay any applicable application fees as found in Paragraph 14.16 C., if the revision is major. No additional application fees shall be applicable if the revision is minor. All engineering design work that is determined not to be major is deemed to be minor.

Section 14 - Expanded Interconnection

14.11 Intervals (Cont'd)

- C. The Telephone Company will provide physical collocation arrangements in eligible structures on a "first come, first served" basis. To apply for a dedicated space in a particular eligible structure, the collocater will provide a completed physical collocation application form found in The Telephone Company's Interconnector's Collocation Services Handbook for Physical Collocation in Connecticut and will pay an initial application fee. A collocater wishing The Telephone Company to consider multiple methods for collocation in an Eligible Structure on a single application will need to include in each application a prioritized list of its preferred methods of collocating, e.g., caged, shared, common, cageless, or other, as well as adequate information, (e.g., specific layout requirements, cage size, number of bays, requirements relative to adjacent bays, etc.) for The Telephone Company to process the application for each of the preferred methods.

If a collocater provides adequate information and its preferences with its application, The Telephone Company would not require an additional application, nor would the collocater be required to restart the quotation interval should its first choice not be available in an Eligible Structure. Collocaters who only wish The Telephone Company to consider one collocation method need not provide preferences and associated specific information for multiple methods. However, if The Telephone Company is unable to provide the collocater's requested collocation method due to space constraints and the collocater determines that it wishes The Telephone Company to consider an alternative method of collocation, the collocater would be required to submit an additional application. This would not result in incremental application costs to the collocater as its initial application fee would be returned due to the denial. However, it would restart the collocation intervals. Upon receipt of the collocater's application and initial application fee payment, The Telephone Company will begin development of the quotation. The Telephone Company will notify the collocater as to whether its request for collocation space has been granted or denied due to a lack of space within ten (10) days of submission of the completed application.

- D. In responding to an application request, the Telephone Company shall advise the collocater which one (highest priority) of the collocater's preferred types of physical collocation is available. The Telephone Company will provide a quotation of the applicable nonrecurring charges and recurring rates, and the estimated construction interval no later than as specified above. The collocater has 65 days from receipt of the quotation to accept the quotation. The quotation expires 65 days after the receipt of the quotation by the collocater. If the collocater still desires the quoted arrangement, a new application and appropriate fees are required.

Section 14 - Expanded Interconnection

14.11 Intervals (Cont'd)

- E. Dedicated space is not reserved until the quotation is accepted. When the quotation is accepted, unless otherwise mutually agreed to by the Parties in writing, The Telephone Company will complete construction of all Active Collocation Space requests for caged collocation in 90 days from the receipt of the collocater's acceptance of the quotation. The Telephone Company will complete construction of Active Collocation Space requests for cageless collocation in 55 days from the receipt of the Collocater's acceptance of the quotation where the Collocater is installing all of its own bays. The cageless collocation construction interval ends when roughed in, unterminated DC power and interconnection cabling is provided to the collocation area.

The Telephone Company will complete construction of Active Collocation Space requests for cageless collocation in 70 days from the receipt of the Collocater's acceptance of the quotation where the Telephone Company will be installing all or some of the bays. These construction intervals for cageless collocation in Active Collocation Space in all Eligible Structures apply where the Collocater is requesting maximum DC Power of 50 AMPs, either in a single or in multiple feeds of 50 AMPs (maximum 50 AMPs per feed). For Cageless Collocation in Active Collocation Space in all Eligible Structures where a Collocater is requesting DC Power greater than 50 AMPs (e.g., 100 AMPs) per feed, The Telephone Company will complete construction in 90 days. Unless otherwise mutually agreed to by the parties in writing, in Other (Inactive) Collocation Space, The Telephone Company will complete construction of requests for caged or cageless collocation for any central office in 140 days from receipt of the collocater's acceptance of the quotation.

- F. The Telephone Company will provide the collocater with reduced intervals for augments where existing physical collocation space exists. The collocater must submit to the Telephone Company's Interexchange Carrier Service Center (ICSC) a completed application for an Augmentation to an existing arrangement. For the reduced build-out interval to apply, this application must include an up-front payment of the nonrecurring Application Fee. In addition, the application must include an accurate front equipment view (i.e., rack elevation drawing) specifying bay(s) for the collocater's point of termination and/or power arrangement. Unless mutually agreed to, reduced intervals for augments to interconnection and/or power arrangements, where sufficient power infrastructure is available, shall be provided within 60 days after acceptance of the quote.

Other augments requiring additional bay spaces, the Telephone Company bays, the Telephone Company cable racks, cage expansions and/or power requests that exceed existing power infrastructure, within Active Central Office space will have a construction interval mutually agreed upon between collocater and the Telephone Company, not to exceed 90 days.

Section 14 - Expanded Interconnection

14.11 Intervals (Cont'd)

- G. The Telephone Company will submit to a requesting carrier a report indicating the Telephone Company's available collocation space in a particular the Telephone Company Eligible Structure upon request. This report will specify the amount of collocation space available at each requested Eligible Structure, the number of collocators, and any modifications in the use of the space since the last report. The report will also include measures that the Telephone Company is taking to make additional space available for collocation. The intervals for delivering the reports are as follows:

<u>Number of Report Requests</u> <u>By One collocator</u>	<u>Report Delivery</u> <u>Interval</u>
1 - 5	10 Business Days
6 - 20	25 Business Days

Should the collocator submit 21 or more report requests within five (5) days, the report delivery interval will be increased by five (5) days for every five (5) additional report requests or fraction thereof.

- H. The Telephone Company will apply the same space reservation policies to collocators as it applies to itself. In order to increase the amount of space available for collocation, the Telephone Company will remove obsolete unused equipment from its Eligible Structures that have no space available for Physical Collocation upon reasonable request by a collocator or upon order of the Department. In those offices where the Telephone Company does not have adequate space to meet forecasted collocation demand, the Telephone Company agrees to remove obsolete unused equipment located in that office necessary to meet forecasted demand in advance of a reasonable request from a CLEC or order from the Department.

Section 14 - Expanded Interconnection

14.12 Rights and Obligations

- A. The Collocator shall not have access to the Telephone Company's Main Distribution Frame, DSX, DCS or any other Telephone Company equipment or facilities not specifically designated by the Telephone Company for collocator access.
- B. Credit Allowances for Service Interruptions, as set forth in Section 2.12, shall apply to the Cross-Connect and DC power recurring rates.
- C. In addition to other provisions of this Tariff providing for the termination of service by the Telephone Company, the Telephone Company may terminate an Expanded Interconnection arrangement in the event that the collocator imposes continued disruption and threat of harm upon the Telephone Company's employees and/or network or its ability to provide service to other customers, or fails to comply with insurance requirements as specified in Section 14.13 of this Tariff. The Telephone Company will notify the collocator of violations and give the customer an opportunity to remedy any violations prior to invoking the provision to terminate service.
- D. The Telephone Company shall have the right, for good cause shown, and upon six month's written notice, to reclaim any collocated space, cable space or conduit space, if necessary for the Telephone Company to fulfill its obligations under applicable law and its tariffs to provide telecommunications services to its customers.
- E. The Telephone Company shall have the right to terminate an Expanded Interconnection arrangement at any time with respect to any collocated space, cable space, and conduit space(s) where its central office premises becomes the subject of a taking by eminent authority having such power. The Telephone Company shall notify the collocator of such termination and identify the schedule by which the customer must proceed to have the customer's equipment or property removed from the collocated space(s), cable space, and conduit space.
- F. The Expanded Interconnection arrangement for collocated space will automatically terminate if the central office in which the space is located is closed, decommissioned or sold. At least six (6) months written notice will be given of the events, which would lead to the automatic termination of any arrangement pursuant to this condition.
- G. When the Telephone Company determines because of extraordinary circumstances that it is necessary for the dedicated space to be moved within an Eligible Structure or to another Eligible Structure, the collocator is required to move its dedicated space. The Telephone Company will notify the resident collocator(s) in writing within five days of the determination to move the location. If the relocation occurs for reasons other than an emergency, the Telephone Company will provide the resident collocator(s) with at least 180 days advance written notice prior to the relocation.

Section 14 - Expanded Interconnection

14.12 Rights and Obligations (Cont'd)

G. (Cont'd)

The collocator shall be responsible for the preparation of the new Collocation area at the new location if such relocation arises from circumstances beyond the reasonable control of the Telephone Company, including condemnation or government order or regulation that makes the continued occupancy or use of the Dedicated Space or the Eligible Structure in which the Dedicated Space is located for the purpose then used, uneconomical in the Telephone Company's reasonable discretion. In addition, a collocator's presence in the Telephone Company central offices should not prevent the Telephone Company from making a reasonable business decision regarding the number of central offices required to conduct its business or their locations. If the Telephone Company determines that a collocator must relocate due to any of the above reasons, the Telephone Company will make all reasonable efforts to minimize disruption of the collocator's services. In addition, the costs of the move will be shared equally by the Telephone Company and the collocator, unless the parties agree to a different financial arrangement.

- H. If the collocator requests that the Dedicated Space be moved within the Eligible Structure in which the Dedicated Space is located or to another Eligible Structure, the Telephone Company shall permit the collocator to relocate the Dedicated Space, subject to availability of space and technical feasibility. The collocator shall be responsible for all applicable charges associated with the move, including the reinstallation of its equipment and facilities and the preparation of the new Switchroom Space and Dedicated Space as applicable. In either such event, the new Dedicated Space shall be deemed the Dedicated Space and the new Eligible Structure (where applicable) shall be deemed the Eligible Structure in which the Dedicated Space is located.
- I. The Telephone Company shall not be required to purchase additional plant or equipment, relinquish forecasted space or facilities, or to undertake the construction of new quarters or to construct additions to existing quarters in order to satisfy a collocator's request.
- J. The Telephone Company does not assume responsibility for the design, engineering, testing, or performance of the customer's equipment and facilities.
- K. The Telephone Company may at any time, for purposes of inspection, access the collocated space upon providing reasonable prior notice (at least two weeks notice will be provided for planned inspections) and may without prior notice, access the collocated space for purpose of averting any threat of harm imposed by the collocator upon the operation of Telephone Company equipment, facilities and/or personnel located outside of the collocated space or to remove any interference with the Telephone Company's ability to provide service.
- L. Where the Telephone Company is only performing an equipment and method of procedure (MOP) review, the Telephone Company will handle the review of equipment additions within twenty (20) days of receipt of an equipment list that provides the required Level 1 safety requirements as set forth in Bellcore/Telcordia Network Equipment and Building Specifications (NEBS) data. The Telephone Company agrees to perform the MOP review within five (5) days of receipt of a properly completed MOP form. The two intervals may run concurrently.

Section 14 - Expanded Interconnection

14.12 Rights and Obligations (Cont'd)

L. (Cont'd)

If the Telephone Company fails to respond to the collocator during the twenty (20) day equipment review period, then the collocator may presume the Telephone Company acceptance of that specified equipment. If the collocator fails to provide accurate Level 1 safety requirements as set forth in Bellcore/Telcordia Network Equipment and Building Specifications (NEBS) data, the Telephone Company reserves the right to notify the collocator and request equipment removal at a later date if it determines that said equipment is not Level 1 safety compliant as set forth in Bellcore/Telcordia Network Equipment and Building Specifications (NEBS). The collocator will be given ten (10) days to comply with the requirements or remove the equipment from the collocation space. In the event the parties do not resolve the dispute, either party may file a complaint with the Commission.

All other collocator revisions, or augments, will be handled according to the quotation and provisioning intervals as set forth in Section 6.1.3 of this Tariff. If it is determined that the collocator's equipment is not Level 1 safety compliant as set forth in Bellcore/Telcordia Network Equipment and Building Specifications (NEBS), the collocator will be responsible for removal of the equipment and all resulting damages. Furthermore, if the Telephone Company denies collocation of a collocator's equipment citing non-compliance to Level 1 safety requirements as set forth in Bellcore/Telcordia Network Equipment and Building Specifications (NEBS) standards, the Telephone Company must provide to the collocator within five (5) days a list of all network equipment that the Telephone Company has placed within the network area(s) of the premises in question since January 1, 1998, together with an affidavit attesting that all of the equipment on that list meets Level 1 safety requirements as set forth in Bellcore/Telcordia Network Equipment and Building Specifications (NEBS).

- M. If at any time the Telephone Company reasonably determines that either the equipment or the installation of the collocator's facilities does not meet the requirements outlined herein, the collocator will be responsible for the costs associated with the removal or modification of the equipment or installation to render it in compliance. If the collocator fails to correct any non-compliance with these standards within fifteen (15) days of receipt of written notice, the Telephone Company may have the equipment removed or the condition corrected at the customer's expense.

If the Telephone Company reasonably determines that any collocator activities or equipment are unsafe or in violation of any applicable fire, environmental or other laws or regulations, the Telephone Company has the right to immediately stop the work or place it on hold. However, when such conditions pose an immediate threat to the safety of Telephone Company employees or interfere with the performance of Telephone Company service obligations, the Telephone Company may perform such work and/or take such action that the Telephone Company deems necessary without prior notice to the collocator. The Telephone Company reserves the right to remove products, facilities and equipment from its list of approved products if such products, facilities and equipment are determined to be no longer in compliance with Level 1 safety requirements as set forth in Bellcore/Telcordia Network Equipment and Building Specifications (NEBS).

Section 14 - Expanded Interconnection

14.12 Rights and Obligations (Cont'd)

- N. Occupancy of the collocated space will be granted upon completion of all work required to make the space ready for occupancy and after having received the balance of the Site Preparation charges as specified in Section 14.6 of this Tariff. The Telephone Company shall notify the customer of the occupancy date in writing.

The Telephone Company will use its best efforts to provide occupancy of the space(s) on time and will keep the collocater advised of the work schedule. However, if the Telephone Company fails for any reason to provide occupancy of the space(s) to the collocater within the estimated interval for turnover of space(s), the Telephone Company shall not be liable to the collocater in any way as a result of such failure to provide occupancy. In the event that the Telephone Company is delayed in providing occupancy to the customer for any reason other than the acts or omissions of the customer, the customer shall not be obligated to pay the monthly charges applicable to occupancy until the date the Telephone Company provides occupancy.

- O. Before beginning any delivery, installation, replacement or removal work for equipment and/or facilities located within the collocater's collocated space, the customer must obtain the Telephone Company's written approval of the proposed scheduling of work to coordinate use of temporary staging areas and other building facilities. The Telephone Company may request additional information before granting approval and may require scheduling changes.

The customer shall be permitted, upon receipt of written permission from authorized personnel of the Telephone Company, to use a portion of the central office(s) and loading areas, to the extent available, on a temporary basis during the collocater's equipment installation work in the collocated space. The customer shall be responsible for protecting the Telephone Company's equipment and central office walls and flooring within the staging area and along the staging route. The collocater will store equipment and materials within partitioned space when work is not in progress. Storing equipment and materials overnight shall not be permitted in the staging area(s). The customer will meet all Telephone Company fire, safety and environmental requirements. This temporary staging area will be vacated and delivered to the Telephone Company in a vacuum-clean condition upon completion of the installation work. The Telephone Company may assess a cleaning charge for failure to comply with this obligation.

- P. In the event of a Telephone Company work stoppage, the customer's employees, authorized agents and contractors shall comply with the Emergency Operating Procedures established by the Telephone Company.
- Q. The customer shall coordinate with the Telephone Company to ensure that services are installed in accordance with the service request.
- R. The customer shall be responsible for testing, if necessary, with the Telephone Company to identify and clear a trouble when the trouble has been sectionalized (isolated) to a collocater provided service.

Section 14 - Expanded Interconnection

14.12 Rights and Obligations (Cont'd)

- S. The customer shall provide access to its collocated space at all times to allow the Telephone Company to react to emergencies, to maintain the building operating systems (where applicable and necessary) and to ensure compliance with OSHA and Telephone Company regulations and standards related to fire, safety, health and environmental safeguards. If conditions permit, notification of access will be provided and the customer will have the option to be present at time of access.
- T. The customer shall provide a contact number that is readily accessible 24 hours a day, 7 days a week.
- U. The customer shall notify the Telephone Company of significant outages which could impact or degrade the Telephone Company's services, and provide estimated clearing time for restoral.
- V. The customer is responsible for providing trouble report status when requested.

14.13 Insurance

- A. The customer shall, at its sole cost and expense, procure, maintain, pay for and keep in force insurance as specified below:
 - 1. Comprehensive general liability coverage on an occurrence basis. Said coverage shall include the contractual, independent contractor's products/completed operations, broad form property and personal injury endorsements.
 - 2. Umbrella/Excess Liability coverage.
 - 3. All Risk Property coverage on a full replacement cost basis insuring all of the Customer's real and personal property situated on or with the Telephone Company location(s). The customer may also elect to purchase business interruption and contingent business interruption insurance, knowing that Telephone Company has no liability for loss of profit or revenues should an interruption of service occur.
 - 4.
 - a) Statutory Workers Compensation coverage
 - b) Contractual Liability coverage
 - c) Automobile Liability coverage
 - d) and Employers Liability coverage
- B. The collocater's insurance shall be underwritten by insurance companies licensed to do business in the State of Connecticut having a BEST Insurance rating of at least AA-12. The Company shall be named as an ADDITIONAL INSURED and LOSS PAYEE on ALL applicable policies as specified following.

Section 14 - Expanded Interconnection

14.13 Insurance (Cont'd)

B. (Cont'd)

All policies purchased by the customer shall be deemed to be primary and not contributing to or in excess of any similar coverage purchased by the Telephone Company. All insurance must be in effect on or before the Expanded Interconnection service occupancy date and shall remain in force as long as the customer's facilities remain within any spaces governed by Expanded Interconnection service. If the customer fails to maintain the coverage, the Telephone Company may pay the premiums thereon and seek reimbursement of same from the customer. Failure to make a timely reimbursement will constitute a material breach and shall cause termination of the Expanded Interconnection arrangement as specified above.

The specific amounts of coverage for insurance specified above shall be specified in an insurance schedule provided by the Telephone Company.

The customer shall submit certificates of insurance reflecting the coverage specified above prior to occupancy. The collocator shall arrange for the Telephone Company to receive 30 days advance notice of cancellation from the collocator's Insurance Company. Notice of Cancellation should be forwarded to:

SBC Communications, Inc.
Corp Mgr. - Risk Mgmt.
175 E. Houston St.
San Antonio, TX 78205

The customer shall conform to the recommendation(s) made by the Telephone Company's Fire Insurance Company which the Telephone Company has already agreed to or to such recommendations it shall hereafter agree to.

14.14 Notice

The customer shall provide at least six (6) months written notice to the Telephone Company of its intention to terminate Expanded Interconnection service. The customer shall disconnect and remove its facilities from its collocated space up to the point of termination and from all other areas identified as common between the customer and the Telephone Company. The work to remove the customer's facilities from the collocated space shall have been completed upon the day that billing is discontinued. The collocated space shall be vacated and returned to the Telephone Company in vacuum-clean condition when removal activities have been completed. If the collocated space is not returned to the Telephone Company in its original condition, the Telephone Company shall assess a charge to the customer for the work required to return the collocated space to its original condition.

The Telephone Company will allow the collocator's customers to place orders for services to the collocator's collocated space under a letter of agency (LOA) from the collocator.

Section 14 - Expanded Interconnection

14.15 Rate Elements

The customer is subject to nonrecurring charges and/or recurring rates for use of Telephone Company owned space and facilities and/or for the provisioning of customer provided facilities within the serving wire center for the purposes of interconnection or access to unbundled network elements (UNEs) of the Telephone Company. Those charges are set forth in 14.16 following. The rate elements are described below.

A. Cross-Connect Termination

The Cross-Connect Termination provides an intra-building DS1, DS3, or copper cable arrangement from the customer's point of termination or optional Point of Termination (POT) Frame to the Telephone Company's DSX-1 or DSX-3 panel, or Main Distribution Frame (MDF), or similar device.

B. Point of Termination Function

The Telephone Company does not require that relay racks with terminating devices (or like equipment) be installed at the collocator's point of termination within an Eligible Structure. However, the Telephone Company will provide equipment to perform the point of termination function at the option of the customer. The point of termination function monthly rate will be assessed per DS1 and DS3 cross-connect termination, as those elements are activated for Special Access and Switched Access Services.

C. Application Fee

The Application Fee, for Physical Collocation, recovers the Telephone Company's costs incurred to process the collocator's application for Physical Collocation arrangements. An initial Application Fee will apply to the collocator's Physical Collocation application. A major revision, as defined in section 14.11,B preceding, will result in the application of an additional Initial Application Fee. The Application Fee is non-refundable. The Application Fee is also applicable for Adjacent Structure Collocation arrangement requests and for Augments.

D. Project Coordination Fee

The Project Coordination fee reflects the Telephone Company's labor costs to manage the provisioning of the individual collocator's space and space related requirements for a particular Physical Collocation arrangement. This fee is applicable upon the submission of an application. The fee will be fully or partially refunded upon cancellation and fully refunded when the application for collocation space is denied due to the lack of space. This fee is also applicable to requests for Adjacent Structure Collocation arrangements and for Augments.

E. Caged Physical Collocation

The Telephone Company will designate Caged Physical Collocation, including Shared Cage Physical Collocation space on a first come first served basis. The serving arrangement provides an area designated by the Telephone Company within an Eligible Structure to be used by a collocator or collocators in the case of Shared Cage Physical Collocation, for the sole purpose of installing, maintaining and operating collocator-provided equipment.

Section 14 - Expanded Interconnection

14.15 Rate Elements (Cont'd)E. Caged Physical Collocation (Cont'd)

Such space will conform with the standards for health, safety and security to which the Telephone Company adheres within a serving wire center environment. The Telephone Company will provide Floor Space, floor space conditioning, Cage Common Systems, and Safety and Security on a per square foot basis. Collocators will be able to order space and a cage enclosure in 50 square foot increments or smaller as specified in 14.7.1. If a Shared Cage Arrangement is desired, each CLEC may request space in increments of single bay (10 square feet) or single cabinet (18 square feet) sizes as divisions of a caged enclosure of at least 50 square feet or smaller as specified in 14.7.1. The Telephone Company will ensure that each collocator in Telephone Company premises will be responsible for the cost of site preparation and security, proportional to the amount of space purchased by that collocator.

The collocator may provide a cage enclosure (not including a top), cable rack, support structure, rack lighting and receptacles inside the cage. The collocator may also provide backboard, cage sign, door, lock and key set.

If the collocator elects to install, or requests that the Telephone Company provide and install, a point of termination (POT) frame in the Collocation Area outside the collocator's cage, the appropriate floor space charge for Cageless Physical Collocation will apply. The Telephone Company will provide a structure for cable routing on an ICB. The Telephone Company will also place the cable(s) to the distant POT frame, if requested, on an ICB basis.

The charges described herein apply to Caged and Shared Cage Physical Collocation in the Telephone Company's central offices. The Telephone Company will ensure that each collocator in the Telephone Company's Eligible Structure will be responsible for the cost of site preparation and security proportional to the amount of space purchased by that collocator. Charges for Caged and Shared Cage Physical Collocation in other Telephone Company Eligible Structures will be determined on an ICB.

1. Floor Space Usage Charges

Consist of the following sub-elements:

- Land and Building costs
- Operating costs

Section 14 - Expanded Interconnection

14.15 Rate Elements (Cont'd)E. Caged Physical Collocation (Cont'd)2. Site Conditioning Charge

May include, but is not limited to, the following and represents costs necessary, as determined by the Telephone Company, to condition basic floor space to accommodate telecommunications equipment:

- Abatement of hazardous building materials or implementation of approved alternative work practices as necessary, such as, asbestos or lead paint
- New floor tile
- General lighting
- House service receptacles
- Exit lights
- Emergency lighting
- Electrical panel for lights and receptacles
- Cable slots for routing of power and transmission cables
- Fire-rated partitions where required
- HVAC where not existing
- Demolition work where required

Site conditioning does not include the cost of relocating personnel and support equipment. Such relocation will be done on an ICB.

3. Common Systems Charge

Consists of the following elements and represents charges unique to the collocater making the request:

- Grounding of any wire partition
- Cable rack, lights, ground wire, AC electrical access, and support structure above the cage

4. Safety and Security

This charge represents reasonable costs incurred by the Telephone Company to secure its equipment contained within the used space of the Eligible Structure. This nonrecurring charge is expressed on a per square foot basis based on, but not limited to varying combinations of the following security measures and devices:

- Interior Security Partition enclosing the Telephone Company equipment
- Provisioning of door locks and keying of existing doors
- Door access controller necessary for a card reader system
- Security camera systems
- Locking cabinets for network equipment
- Combination door locks
- Cable locks for computer terminals and test equipment
- Secure ID/password protection for computer systems
- Emergency exit door alarms

Section 14 - Expanded Interconnection

14.15 Rate Elements (Cont'd)

E. Caged Physical Collocation (Cont'd)5. Engineering Design Charge

The Engineering Design Charge covers the cost for Telephone Company employees to perform the initial central office survey for Caged and Cageless Physical Collocation arrangements and to implement the Collocation Area. This fee is determined on a per square foot basis. The fee will be fully or partially refunded upon cancellation. It will be fully refunded when the application for collocation space is denied due to the lack of space.

6. Additional HVAC Option

If equipment such as remote switching modules (RSMs), or any equipment that exceeds standard heat dissipation (25 watts/Square Foot) is to be installed, an additional Dedicated Heating Ventilating and Air Conditioning (HVAC) Charge will apply. The additional HVAC charge consists of the necessary dedicated ductwork extensions from the branch duct to the cage area including downturns and diffusers required to handle the additional heat load created by such equipment. It is anticipated that two (2) extensions would be required for a typical RSM layout and the charge includes both.

If a Dedicated Power Plant is required, cost will be based on an ICB quote.

F. Cageless Physical Collocation

The Telephone Company will designate and assign Cageless Physical Collocation space on a first come first served basis. The serving arrangement provides an area designated by the Telephone Company within an Eligible Structure to be used by a collocator for the sole purpose of installing, maintaining and operating collocator-provided equipment. Such space will conform with the standards for health, safety and security to which the Telephone Company adheres within a serving wire center environment.

The Cageless Physical Collocation charges consist of floor space, and the design and placement of common systems in an area designated by the Telephone Company within an Eligible Structure to be used by the collocator for the sole purpose of installing, maintaining and operating the collocator-provided equipment for the purposes described in 14.1C, above.

Section 14 - Expanded Interconnection

14.15 Rate Elements (Cont'd)F. Cageless Physical Collocation (Cont'd)

The Telephone Company will provide floor space, floor space conditioning, safety and security, and building and common systems materials charges on a per square foot basis. Collocators will be able to order space in amounts as small as that sufficient to house and maintain a single relay rack or bay of equipment. The Telephone Company will ensure that each collocator in the Telephone Company's Eligible Structure will be responsible for the cost of site preparation and security proportional to the amount of space purchased by that collocator.

The charges described herein apply to Cageless Physical Collocation in the Telephone Company's central offices. Charges for Cageless Physical Collocation in other Eligible Structures will be determined on an ICB.

1. Floor Space Usage Charges

Consist of the following sub-elements:

- Land and Building Costs
- Operating costs

2. Site Conditioning Charge

Site Conditioning charge may include, but is not limited to the following and represents costs necessary, as determined by the Telephone Company, to condition basic floor space to accommodate telecommunications equipment:

- Abatement of hazardous building materials or implementation of approved alternative work practices as necessary, such as, asbestos or lead paint
- New floor tile
- General lighting
- House service receptacles
- Exit lights
- Emergency lighting
- Electrical panel for lights and receptacles
- Cable slots for routing of power and transmission cables
- Fire-rated partitions where required
- HVAC where not existing
- Demolition work where required

Site Conditioning does not include the cost of relocating personnel and support equipment. Such relocation will be done on an individual case basis.

Section 14 - Expanded Interconnection

14.15 Rate Elements (Cont'd)

F. Cageless Physical Collocation (Cont'd)

3. Common Systems Charge

Consists of the following elements and represents charges unique to the collocator making the request:

- Cable rack, lights, ground wire, AC electrical access, and support structure above the cage

4. Safety and Security

This charge represents reasonable costs incurred by the Telephone Company to secure its equipment contained within the used space of the Eligible Structure.

This nonrecurring charge is expressed on a per square foot basis based on, but not limited to varying combinations of the following security measures and devices:

- Interior Security Partition enclosing the Telephone Company equipment
- Provisioning of door locks and keying of existing doors
- Door access controller necessary for a card reader system
- Security camera systems
- Locking cabinets for network equipment
- Combination door locks
- Cable locks for computer terminals and test equipment
- Secure ID/password protection for computer systems
- Emergency exit door alarms

5. Engineering Design Charge

The Engineering Design Charge covers the cost for Telephone Company employees to perform the initial central office survey for Caged and Cageless Physical Collocation arrangements and to implement the Collocation Area. This fee is determined on a per square foot basis. The fee will be fully or partially refunded upon cancellation. It will be fully refunded when the application for collocation space is denied due to the lack of space.

Section 14 - Expanded Interconnection

14.15 Rate Elements (Cont'd)F. Cageless Physical Collocation (Cont'd)6. Additional HVAC Option

If equipment such as RSMs, or any equipment that exceeds standard heat dissipation (25 watts/Square Foot) is to be installed, an additional Dedicated Heating Ventilating and Air Conditioning (HVAC) Charge will apply. The additional HVAC charge consists of the necessary dedicated ductwork extensions from the branch duct to the cage area including downturns and diffusers required to handle the additional heat load created by such equipment. Charges will be developed based on how many bays, at 10 square feet, or cabinets, at 18 square feet, exceed the standard expressed above. If a Dedicated Power Plant is required, cost will be based on an ICB quote.

G. Options1. Options for Caged & Shared Cage Physical Collocationa) Cage Fencing

8 foot high, welded wire security partition. Rates apply, per linear foot. Includes installation and material.

b) Fence Removal

Removal of cage fencing installed by the Telephone Company. Rates apply per linear foot.

c) Fence Rearrangement

The rearrangement of cage fencing installed by the Telephone Company. May include the removal, and reinstallation of sections of welded wire security partition. Rates apply per linear foot.

d) Door with lock & key set

Cage fencing door. Rates apply per door.

e) Backboard

2' x 4' fire retardant plywood mounted to the cage. Rates apply per backboard.

f) Signage

Typically plastic laminate sign mounted to the outside of the cage. Rates apply per sign.

Section 14 - Expanded Interconnection

14.15 Rate Elements (Cont'd)

G. Options (Cont'd)

1. Options for Caged & Shared Cage Physical Collocation (Cont'd)

g) Lighting Inside Cage

Typically 1' x 4' florescent light fixture. Rates apply per fixture.

h) Real Estate Construction Design

The Real Estate Construction Design charge covers the cost for Telephone Company employees to design and build the Collocation Cage Arrangement area in an Eligible Structure.

H. Options available for Caged, Shared Cage & Cageless Physical Collocation

1. AC Electrical Outlet

Single standard duplex 120 volts, 20 AMP AC outlet. Rates apply per outlet.

2. Timing lead per linear foot.

I. Options available for Cageless Physical Collocation

1. Equipment Bay/Relay Rack

A standard 7 foot high network bay/relay rack, 26-inch long, 23-inch inside suitable for 23 or 19-inch equipment mounting, suitable for equipment not to exceed 15-inches in depth.

2. Network Cabinet Bay/Relay Rack

A standard zone 4 cabinet, with the interior capacity for a 7 foot bay, which will provide the same egress access. Standard 7-foot high network bay/relay rack, 26-inch long, 23-inch inside suitable for 23 or 19-inch equipment mounting. Up to 36 inches interior enclosed depth, front and rear lockable doors, each door swings open.

Section 14 - Expanded Interconnection

14.15 Rate Elements (Cont'd)J. DC Power Provisioning

1. DC power panel - at least one (1) 50 amp DC power panel is required per application if the arrangement is not served from the Telco's BDFB. No panel is required for 20, 40 or 50 amp arrangements served from the Telco's BDFB. The DC power panel(s) are designed to provide either 20, 40, 50 or 100 (maximum) amp increments (redundant) of DC power. This rate element is always required for 100 amp or greater supplies and can be provided by either the Telco as an ICB or collocator. If the collocator chooses to provide the panel it must meet Level 1 safety requirements as set forth in Bellcore/Telcordia Network Equipment and Building Specifications (NEBS).
2. DC power cable-Placement - the power arrangement is the placement of 4 DC power cables and the cable rack including support and fabrication material.
3. DC power engineering - the engineering and design work of all elements of the DC power system required to accommodate the application.

K. DC Power Consumption

The DC Power charge consists of the use of:

- DC power plant
- Back up generator
- Batteries and rectifiers
- BDFB
- Associated hardware and cabling
- AC energy to convert to DC power

DC power is available in 20, 40 or 50 AMP redundant increments.
DC Power of 100 or 200 amp redundant increments will be ICB.

L. Ground Cable Placement, Each

The Ground Cable Arrangement is the cabling arrangement designed to provide grounding for equipment within the Collocation Area. Separate Ground Cable Arrangements are required for Integrated and Isolated Ground Planes.

Isolated ground planes are provided on an ICB.

Section 14 - Expanded Interconnection

14.15 Rate Elements (Cont'd)M. Fiber Cable Placement & Removal

Placement of the collocator's fiber from the Central Office entrance manhole, designated by the Telephone Company, to the collocator's dedicated space.

Nonrecurring charges include:

- the placement costs for the cable
- the proportionate share of cable support structure

Recurring rates include:

- ongoing maintenance of cable support structure
- cable rack usage in the cable vault.

N. Security & Identification Cards/devices

The Security & Identification Cards/devices charge consists of a charge per new card or replacement card/device, for access cards/devices and for security ID cards/devices.

O. Physical Collocation Space Availability Report

This rate element covers the costs associated with providing a reporting system and associated reports indicating, on a per Eligible Structure basis, the amount of physical collocation space available, the number of collocators, any modifications in the use of space since the generation of the last available report, and measures that the Telephone Company is undertaking to make additional space available for physical collocation in that Eligible Structure. Rates apply per report and per Eligible Structure.

P. Collocator to Collocator Connection1. Fiber Cable

This rate element provides for direct cabling (12 fibers) between two (2) collocation arrangements at an Eligible Structure. This rate element is expressed as a combination of a nonrecurring charge and a monthly recurring rate, and allows for CLECs to construct and place themselves, as desired, unless CLECs are not located in contiguous space. The CLEC is not required to purchase any equipment or interconnecting facilities from the Telephone Company.

Section 14 - Expanded Interconnection

14.15 Rate Elements (Cont'd)P. Collocator to Collocator Connection2. Copper Cable (28 DS1s)

This rate element provides for direct cabling using copper cable (28 DS1s) between two (2) collocation arrangements at an Eligible Structure. This rate element is expressed as a combination of nonrecurring charge and a monthly recurring rate, and allows for CLECs to construct and place themselves, as desired, unless CLECs are not located in contiguous space. The CLEC is not required to purchase any equipment or interconnecting facilities from the Telephone Company.

3. Coax Cable (1 DS3)

This rate element provides for direct cabling using coaxial cable (1 DS3) between two (2) collocation arrangements at an Eligible Structure. This rate element is expressed as a combination of a nonrecurring charge and a monthly recurring rate, and allows for CLECs to construct and place themselves, as desired, unless CLECs are not located in contiguous space. The CLEC is not required to purchase any equipment or interconnecting facilities from the Telephone Company.

Q. Adjacent Structure

When Physical Collocation space is exhausted inside a Telephone Company Eligible Structure, a CLEC may elect to provide an adjacent structure. The Telephone Company will provide the following sub-elements where space is available and it is technically feasible. In addition, should the CLEC elect to have the Telephone Company provision an extension of DC Power Service from the Eligible Structure to the Adjacent Structure, a DC Power panel will be required.

- Land Rental
- Extension of AC service from the Central Office main house service panel to the Adjacent Structure (optional)
- AC usage per KWH
- Extension of DC power service to power panel from the Central Office power source
- Extension of Interconnection Arrangement(s) from the Telephone Company network to the Adjacent Structure
- Fiber Cable and Innerduct
- Conduit Placement in Telephone Company Trench
- Extension of DC power service from the central office power source to the Adjacent On-Site Structure (optional)
- Timing Arrangement
- Adjacent Structure Engineering Design Charge

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 14-35

Section 14 - Expanded Interconnection

14.16 Rates and Charges

A. Cross-Connect Termination

	Monthly Rate	Nonrecurring Charge	
(1) Special Access			
DS1 (1.544 Mbps)	\$7.72	\$176.00	
DS3 (44.736 Mbps)	\$64.20	\$184.00	
OC3/OC3c (155.520 Mbps)	\$470.00	\$400.00	
OC12/OC12c (622.08 Mbps)	\$940.00	\$400.00	
OC48/OC48C (2488.32 Mbps)	\$1,880.00	\$400.00	
OC-192 (9953.28 Mbps)	\$3,760.00	\$400.00	
Ethernet Optical	\$750.00	\$400.00	
Collocation Cross Connect			
1G Dedicated Ethernet 1Gigabit Ethernet ¹	\$1,500.00	\$400.00	(D)
Basic Switched Ethernet Service ¹	\$100.00	\$200.00	(D)
(2) Switched Access			
DS1 (1.544 Mbps)	\$7.72	\$176.00	
DS3 (44.736 Mbps)	\$64.20	\$184.00	
(3) Local Exchange Access			
(a) Local Access - Unbundled Elements			
DS1 (1.544 Mbps)	\$7.72	\$176.00	
DS3 (44.736 Mbps)	\$64.20	\$184.00	
Copper cable (VG/ISDN)	\$126.25	\$1000.00	
- per 250 pair block			
Copper cable (VG/ISDN)*	\$0	\$0	
Copper "shielded" cable (ADSL)	\$12.76	\$2817.00	
- per 100 pairs			
Copper "shielded" cable (ADSL)*	\$0	\$0	
(b) Network Interconnection Trunking			
DS1 (1.544 Mbps)			
POTS Trunking	\$7.72	\$176.00	
ESCO Trunks	\$7.72	\$176.00	
Transit Traffic	\$7.72	\$176.00	
DS3 (44.736 Mbps)			
POTS Trunking	\$64.20	\$184.00	
ESCO Trunks	\$64.20	\$184.00	
Transit Traffic	\$64.20	\$184.00	
Copper cable Voice Grade ESCO	\$0	\$0	

B. Point of Termination Function

(1) Special Access		
Per DS1	\$1.25	\$0
Per DS3	\$3.39	\$0
(2) Switched Access		
Per DS1	\$1.25	\$0
Per DS3	\$3.39	\$0

* Required for each VG/ISDN and ADSL loop to be activated.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)

(N)

Issued: December 18, 2018

Effective: January 1, 2019

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-36

Section 14 - Expanded Interconnection

14.16 Rates and Charges (Cont'd)B. Point of Termination Function (Cont'd)

	Monthly <u>Rate</u>	Nonrecurring <u>Charge</u>
(3) Local Exchange Access		
(a) Local Access - Unbundled Elements		
Per DS1	\$1.25	\$0
Per DS3	\$3.39	\$0
(b) Network Interconnection Trunking		
<u>Per DS1</u>		
POTS Trunking	\$1.25	\$0
ESCO Trunks	\$1.25	\$0
Transit Traffic	\$1.25	\$0
<u>Per DS3</u>		
POTS Trunking	\$3.39	\$0
ESCO Trunks	\$3.39	\$0
Transit Traffic	\$3.39	\$0

The following rates and charges apply for Caged, Shared Cage and Cageless Physical Collocation requests:

C. Application Fee

(1) Initial Application Fee		
- per collocator (CAGED) or per CLEC	\$0	\$484.97
(Shared & CAGELESS), per application		

D. Project Coordination Fee

(1) Initial Project Coordination Fees		
- per collocator (CAGED) or per CLEC	\$0	
(Shared & CAGELESS), per application		\$3,899.53
(2) Augment Application Fee		
- per collocator (CAGED) or per CLEC	\$0	\$484.97
(Shared & CAGELESS), per application		
(3) Augment Project Coordination Fee		
- per collocator (CAGED) or per CLEC	\$0	\$776.08
(Shared & CAGELESS), per application		

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-37

Section 14 - Expanded Interconnection

14.16 Rates and Charges (Cont'd)E. Caged Physical Collocation

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(1) Floor Space Charge - per 50 sq ft	\$324.37	\$0
(2) Site Conditioning Engineering - per 50 sq ft	\$0	\$4,794.48
(3) Common Systems - per 50 sq ft	\$11.56	\$5,232.24
(4) Safety & Security - per 50 sq ft	\$0	\$4,862.05
(5) Engineering Design Charge - per 50 sq ft	\$0	\$409.19
(6) Add'l HVAC Option - per sq ft	\$0	\$16.10

F. Cageless Physical Collocation(1) Equipment Bay (Increments of 10 square feet)

(a) Floor Space Charge - per Equip Bay	\$64.88	\$0
(b) Site Conditioning Engineering - per Equip Bay	\$0	\$958.90
(c) Common Systems - per Equip Bay	\$2.84	\$1,286.96
(d) Safety & Security - per Equip Bay	\$0	\$972.41
(e) Engineering Design Charge - per Equip Bay	\$0	\$81.84
(6) Add'l HVAC Option - per sq ft	\$0	\$16.10

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-38

Section 14 - Expanded Interconnection

14.16 Rates and Charges (Cont'd)F. Cageless Physical Collocation (Cont'd)(2) Network Cabinet (Increments of 18 square feet)

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(a) Floor Space Charge - per Network Cabinet	\$116.77	\$0
(b) Site Conditioning Engineering - per Network Cabinet	\$0	\$1,726.01
(c) Common Systems - per Network Cabinet	\$5.12	\$2,316.53
(d) Safety & Security - per Network Cabinet	\$0	\$1,750.34
(e) Engineering Design Charge - per Network Cabinet	\$0	\$147.30
(f) Add'l HVAC Option - per sq ft	\$0	\$16.10

G. Options for Caged and Shared Cage Physical Collocation

(1) Cage Fencing Placement - per Linear Ft	\$0	\$67.22
(2) Fence Removal - per Linear Ft	\$0	\$40.75
(3) Fence Rearrangement - per Linear Ft	\$0	\$16.68
(4) Door with Lock and Key Set - each	\$0	\$931.47
(5) Backboard - each	\$0	\$154.11
(6) Signage - each	\$0	\$84.53
(7) Light fixture - each	\$0	\$447.09
(8) Real Estate Construction Design - per Cage	\$0	\$545.60

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-39

Section 14 - Expanded Interconnection

14.16 Rates and Charges (Cont'd)H. Options for Caged, Shared Cage & Cageless Physical Collocation

	Monthly Rate	Nonrecurring Charge
(1) AC Electrical Outlet - each	\$0	\$272.71
(2) POT Frame Secure Enclosure - each	\$0	\$5,907.03
(3) Timing Lead - per Linear Ft	\$0	\$9.55

I. Options for Cageless Physical Collocation

(1) Network Equipment Bay Rack - each	\$0	\$3,273.41
(2) Network Cabinet Bay Rack - each	\$0	\$5,907.03

The following sections apply to Caged, Shared Cage & Cageless Physical Collocation:

J. DC Power Provisioning

(1) DC Power Engineering - per Placement	\$0	\$1,125.64
(2) 50 AMP Power Panel - per Panel	\$3.83	\$1,734.14
(3) 20 AMP Cable Placement - per Cable Quad	\$0.38	\$5,682.63
(4) 40 AMP Cable Placement - per Cable Quad	\$0.38	\$6,133.47
(5) 50 AMP Cable Placement - per Cable Quad	\$0.38	\$6,358.89

K. DC Power Consumption

(1) 20 Amps	\$308.13	\$0
(2) 40 Amps	\$616.26	\$0
(3) 50 Amps	\$770.33	\$0

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-40

Section 14 - Expanded Interconnection

14.16 Rates and Charges (Cont'd)

	Monthly Rate	Nonrecurring Charge
L. <u>Ground Cable Placement</u>	\$0	\$37.83
M. <u>Fiber Cable Placement & Removal</u>		
(1) Per Cable Sheath	\$18.78	\$1,981.48
(2) Per Entrance	\$27.25	\$0
N. <u>Security and Identification Cards/Devices</u>		
(1) Security Access Cards/Devices - per card/device	\$0	\$32.11
(2) Security ID Cards/Devices - per card/device	\$0	\$32.11
O. <u>Physical Collocation Space Availability Report</u>		
(1) Per Report, per Eligible Structure	\$0	\$105.35
P. <u>Collocator to Collocator Connection</u>		
(1) Fiber Cable (12 Fibers) - Telephone Company Provides Cable & Racking, Engineers and Installs - Collocator Provides Cable and Installs, Telephone Company Engineers and Installs Racking	\$2.12 \$2.12	\$1,561.82 \$577.34
(2) Copper Cable (28 DS1s) - Telephone Company Provides Cable & Racking, Engineers and Installs - Collocator Provides Cable and Installs, Telephone Company Engineers and Installs Racking	\$1.07 \$1.07	\$1,585.24 \$577.34
(3) Coax Cable (1 DS3) - Telephone Company Provides Cable & Racking, Engineers and Installs - Collocator Provides Cable and Installs, Telephone Company Engineers and Installs Racking	\$0.70 \$0.70	\$1,490.51 \$577.34

Section 14 - Expanded Interconnection

14.16 Rates and ChargesQ. Adjacent Structure

(1) <u>Application/Construction Coordination Fees</u>		Monthly <u>Rate</u>	Nonrecurring <u>Charge</u>
(a)	Application Fee - per CLEC, per application	\$0	\$484.97
(b)	Project Coordination Fee - per CLEC, per application	\$0	\$3,899.53
(c)	Augment Application Fee - per CLEC, per application	\$0	\$484.97
(d)	Augment Project Coordination Fee - per CLEC, per application	\$0	\$776.08
(e)	Engineering Design Charge	ICB	ICB
(f)	Land Rental	ICB	ICB
(2)	<u>Site Conditioning</u>	ICB	ICB
(3)	<u>DC Power Provisioning</u>	ICB	ICB
(4)	<u>DC Power Consumption</u>	ICB	ICB
(5)	<u>Security Cards/Devices</u>		
(a)	Security Access Cards/Devices - per card/device	\$0	\$32.11
(b)	Security ID Cards/Devices - per card/Device	\$0	\$32.11

Section 14 - Expanded Interconnection

14.16 Rates and Charges

R. Individual "Case Basis" Filings

Individual Case Basis physical Expanded Interconnection arrangements are filed below:

WCSA Customer 02-WCSA-004:

These Special Networks provide the CLEC customer with power re-fusing for 2-50 AMP power fuses to 2-20 AMP power fuses in the Telephone Company's Central offices listed below:

<u>Central Office</u>	<u>Nonrecurring Charges (per office):</u>
Branford	\$917.32
Newtown	\$681.02
New Canaan	\$735.09
Rockville, Huntington	\$914.94

WCSA Customer 02-WCSA-005:

This Special Network provides the CLEC customer with the removal of 1-20 AMP power feed and the installation of a power upgrade of 1-50 AMP power feed.

<u>Central Office</u>	<u>Nonrecurring Charges</u>
Bridgeport 01	\$8,652.11

WCSA Customer 02-WCSA-006:

This Special Network provides the CLEC customer with the installation of a power upgrade from 1-20 AMP power feed to 1-50 AMP power feed.

<u>Central Office</u>	<u>Nonrecurring Charges</u>
Stamford 01	\$942.95

WCSA Customer 02-WCSA-007:

This Special Network provides the CLEC customer with power re-fusing for 3-50 AMP power fuses to 3-20 AMP power fuses in the Telephone Company's Central offices listed below:

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Branford	\$575.60
Cromwell	\$525.27
Derby	\$817.47
Hamden	\$598.08
Norwalk 02	\$658.19
New Haven 03	\$608.74

Section 14 - Expanded Interconnection

14.16 Rates and ChargesR. Individual "Case Basis" Filings (cont'd):

Individual Case Basis physical Expanded Interconnection arrangements are filed below:

WCSA Customer 02-WCSA-008:

This Special Network provides the CLEC customer with power re-fusing for 3-50 AMP power fuses to 3-20 AMP power fuses and 8-40 AMP power fuses to 8-20 AMP power fuses in the Telephone Company's Central offices listed below:

<u>Central Office</u>	<u>Nonrecurring Charge (per office):</u>
Danbury	\$1,176.52
Stamford 01	\$1,041.63
Rockville	\$768.96
Willimantic	\$633.54
West Haven	\$415.11
Rockville, Windsor Locks, West Hartford, Meriden, Milford, New London, Huntington, Bridgeport 03, Willimantic, West Haven, Westville, Manchester	\$983.72

WCSA Customer 02-WCSA-009:

This Special Network provides the CLEC customer with power re-fusing for 8-40 AMP power fuses to 8-20 AMP power fuses.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Waterbury	\$762.90
Wallingford	\$884.84

WCSA Customer 02-WCSA-010:

This Special Network provides the CLEC customer with power re-fusing for 4-40 AMP power fuses to 4-20 AMP power fuses.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Glastonbury	\$631.04
Marlborough	\$895.59
New Fairfield	\$752.98

Section 14 - Expanded Interconnection

14.16 Rates and ChargesR. Individual "Case Basis" Filings (cont'd):

Individual Case Basis physical Expanded Interconnection arrangements are filed below:

WCSA Customer 02-WCSA-011:

This Special Network provides the CLEC customer with power re-fusing for 3-50 AMP power fuses to 3-20 AMP power fuses and 4-40 AMP power fuses to 4-20 AMP power fuses in the Telephone Company's Central offices listed below:

<u>Central Office</u>	<u>Nonrecurring Charge (per office):</u>
Bridgeport 01	\$841.86
Groton	\$864.81
Glastonbury, Niantic, Old Greenwich, Naugatuck, Old Saybrook, Unionville, Plainville, West Hartford 02, Farmington, Groton, Middletown, Clinton	\$851.87
Fairfield, Southington, Guilford, Middlebury, Jewett City, Cromwell, East Haven, North Haven, East Hampton	\$895.59

WCSA Customer 02-WCSA-012:

This Special Network provides the CLEC customer with power re-fusing for 3-40 AMP power fuses to 3-20 AMP power fuses.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Torrington	\$606.37

Section 14 - Expanded Interconnection

14.16 Rates and ChargesR. Individual "Case Basis" Filings (cont'd):

Individual Case Basis physical Expanded Interconnection arrangements are filed below:

WCSA Customer 02-WCSA-013:

This Special Network provides the CLEC customer with power re-fusing for 3-50 AMP power fuses to 3-20 AMP power fuses and 7-40 AMP power fuses to 7-20 AMP power fuses in the Telephone Company's Central offices listed below:

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Newington	\$895.59

WCSA Customer 02-WCSA-14:

This Special Network provides the CLEC customer with power re-fusing for 7-40 AMP power fuses to 7-20 AMP power fuses in the Central Offices listed below.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Old Greenwich	\$684.95
Madison, Watertown, Seymour	\$895.59

WCSA Customer 02-WCSA-015:

This Special Network provides the CLEC customer with power re-fusing for 2-50 AMP power fuses to 2-20 AMP power fuses and 8-40 AMP power fuses to 8-20 AMP power fuses in the Telephone Company's Central offices listed below:

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Norwalk	\$994.47

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-46

Section 14 - Expanded Interconnection

14.16 Rates and ChargesR. Individual "Case Basis" Filings (cont'd):

Individual Case Basis physical Expanded Interconnection arrangements are filed below:

WCSA Customer 02-WCSA-016:

This Special Network provides the CLEC customer with power re-fusing for 3-50 AMP power fuses to 3-20 AMP power fuses and 6-40 AMP power fuses to 6-20 AMP power fuses in the Telephone Company's Central offices listed below:

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Hartford 03	\$917.79

WCSA Customer 02-WCSA-017:

This Special Network provides the CLEC customer with the installation of 2 Coppermax cables between two collocation arrangements in the central office.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Cromwell	\$23,759.17
Meriden	\$14,076.54
Norwalk 02	\$ 9,431.42
Wethersfield	\$ 9,924.78
Torrington	\$16,741.27
Bridgeport 01	\$11,101.97
Hamden	\$24,029.27
West Haven	\$11,764.05
Branford	\$ 8,757.12
Westville	\$11,441.58
Stamford 01	\$ 9,824.27

WCSA Customer 02-WCSA-018:

This Special Network provides the CLEC customer with the installation of 6 Coppermax cables between two collocation arrangements in the central office.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
New Haven 03	\$21,051.44
Danbury	\$10,017.79

WCSA Customer 02-WCSA-019:

This Special Network provides the CLEC customer with the installation of 4 Coppermax cables between two collocation arrangements in the central office.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Waterbury	\$10,212.79

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-47

Section 14 - Expanded Interconnection

14.16 Rates and ChargesR. Individual "Case Basis" Filings (cont'd):

Individual Case Basis physical Expanded Interconnection arrangements are filed below:

WCSA Customer 02-WCSA-020:

This Special Network provides the CLEC customer with the installation of 24 connectorized fiber strands in the central office

<u>Central Office</u>	<u>Nonrecurring Charge</u>
(Cageless):	
Seymour	\$68,996.18
New Fairfield	\$38,883.47
Old Saybrook	\$84,631.61
Guilford	\$55,957.84
Clinton	\$66,059.02
Niantic	\$87,375.97
Wethersfield	\$66,303.89
Westville	\$79,834.88
Westport	\$95,523.49
West Haven	\$91,319.60
West Hartford 01	\$95,575.64
West Hartford 02	\$55,217.87
Unionville	\$68,908.00
Wallingford	\$88,688.66
New Britain	\$57,316.06
Rockville	\$91,677.59
Stamford 02	\$68,923.17
Stratford	\$23,331.03
Southington	\$55,268.78
Trumbull	\$83,217.00
Torrington	\$96,016.86
Derby	\$70,733.57
Bridgeport 03	\$71,247.85
Branford	\$77,710.61
Newington	\$84,755.60
Manchester	\$94,092.89
Milford	\$67,367.01
Middletown	\$59,416.60
Huntington	\$90,090.86
New Haven 03	\$91,842.20
Willimantic	\$50,219.79
Hamden	\$57,456.88
Glastonbury	\$53,090.87
Farmington	\$49,300.46
Fairfield	\$88,426.57
Norwalk 02	\$69,755.45
East Haven	\$97,495.47
Madison 01	\$72,390.34
Mystic	\$65,975.51

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-48

Section 14 - Expanded Interconnection

14.16 Rates and Charges

R. Individual "Case Basis" Filings (cont'd):

Individual Case Basis physical Expanded Interconnection arrangements are filed below:

WCSA Customer 02-WCSA-021:

This Special Network provides the CLEC customer with the installation of 24 connectorized fiber strands in the central office

<u>Central Office</u>	<u>Nonrecurring</u>
Bridgeport 01	<u>Charge</u>
	\$66,640.33

WCSA Customer 02-WCSA-022:

This Special Network provides the CLEC customer with the installation of 24 connectorized fiber strands in the central office

<u>Central Office</u>	<u>Nonrecurring</u>
Stamford 01	<u>Charge</u>
	\$53,378.32

WCSA Customer 02-WCSA-023:

This Special Network provides the CLEC customer with the installation of 24 connectorized fiber strands in the central office

<u>Central Office</u>	<u>Nonrecurring</u>
Hartford 03	<u>Charge</u>
	\$33,392.21

WCSA Customer 02-WCSA-024:

This Special Network provides the CLEC customer with the installation of 12 connectorized fiber strands in the central office

<u>Central Office</u>	<u>Nonrecurring</u>
Hartford 03	<u>Charge</u>
	\$19,877.43

WCSA Customer 02-WCSA-025:

This Special Network provides the CLEC customer with the installation of 48 connectorized fiber strands in the central office

<u>Central Office</u>	<u>Nonrecurring</u>
Stamford 01	<u>Charge</u>
	\$99,783.41

Section 14 - Expanded Interconnection

14.16 Rates and ChargesR. Individual "Case Basis" Filings (cont'd):

Individual Case Basis physical Expanded Interconnection arrangements are filed below:

WCSA Customer 02-WCSA-046:

This Special Network provides the CLEC customer with the installation of 24 connectorized fiber strands in the following central offices:

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Bloomfield	\$65,849.21
Bridgeport 01	\$43,700.72
East Hartford 01	\$79,523.48
Hartford 03	\$47,817.16
Manchester	\$104,805.01
Meriden	\$36,350.91
Middletown	\$32,095.32
New Britain	\$57,256.43
New Haven 03	\$48,867.76
Norwalk 02	\$35,056.06
Southington	\$39,456.26
Stamford 01	\$43,676.35
Stamford 02	\$51,590.37
Wallingford	\$39,268.29
West Hartford 01	\$37,178.36
Wethersfield	\$32,117.29
Windsor	\$28,485.48

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-50

Section 14 - Expanded Interconnection

14.16 Rates and ChargesR. Individual "Case Basis" Filings (cont'd):

Individual Case Basis physical Expanded Interconnection arrangements are filed below:

WCSA Customer 05-WCSA-047:

Costs associated with adding 12 interconnection fiber strands

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Hartford 03	\$10,852.63
Norwalk 02	\$11,471.96
New London 02	\$10,852.63
Waterbury	\$10,852.63
Willimantic	\$10,852.63
New Haven 02	\$18,177.42

WCSA Customer 05-WCSA-048:

Costs associated with re-fusing seven 40 amps down to seven 20 amps in the central office.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Mystic	\$3,974.38

WCSA Customer 05-WCSA-049:

Costs associated with re-fusing a 20 amp fuse to a 40 amp fuse in the central office.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Hartford 03	\$1,905.13

WCSA Customer 05-WCSA-050:

Costs associated with adding one 24 interconnection fiber cable in the central office.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Farmington	\$16,062.42
Enfield	\$8,342.01

WCSA Customer 05-WCSA-051:

Costs associated with adding 50 feet of fiber racking and one 24 interconnection fiber cable in the central office.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Windsor Locks	\$4,512.13

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-51

Section 14 - Expanded Interconnection

14.16 Rates and Charges

R. Individual "Case Basis" Filings (cont'd):

Individual Case Basis physical Expanded Interconnection arrangements are filed below:

WCSA Customer 05-WCSA-052:

Costs associated with adding 24 interconnection fiber strands

	<u>Nonrecurring</u>
<u>Central Office</u>	<u>Charge</u>
Enfield 01	\$9,442.64

WCSA Customer 05-WCSA-053:

Costs associated with the removal of 1000 non-shielded copper cable pairs.

	<u>Nonrecurring</u>
<u>Central Office</u>	<u>Charge</u>
Derby	\$9,803.26

WCSA Customer 05-WCSA-054:

Costs associated with the removal of 500 non-shielded copper cable pairs.

	<u>Nonrecurring</u>
<u>Central Office</u>	<u>Charge</u>
Waterbury	\$3,904.37

WCSA Customer 05-WCSA-055:

Costs associated with power re-fusing one 1-20 amp to 1-40 amp power feed fuse in the central office.

	<u>Nonrecurring</u>
<u>Central Office</u>	<u>Charge</u>
Ridgefield	\$727.98

WCSA Customer 05-WCSA-056:

Costs associated with power re-fusing eight 40 amp fuses to eight 20 amp fuses and three 50 amp fuses down to three 20 amp fuses in the central office.

	<u>Nonrecurring</u>
<u>Central Office</u>	<u>Charge</u>
Wethersfield	\$2,035.45

WCSA Customer 05-WCSA-057:

Costs associated with the re-stenciling of two 96 interconnection fiber cable pairs and provide CFA in the central office.

	<u>Nonrecurring</u>
<u>Central Office</u>	<u>Charge</u>
New Haven 02	\$1,145.38

WCSA Customer 05-WCSA-058:

Costs associated with changing 1-50 amp A&B circuit breaker to 1-70 amp A&B circuit breaker in the central office.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-52

Section 14 - Expanded Interconnection

14.16 Rates and ChargesR. Individual "Case Basis" Filings (cont'd):

Individual Case Basis physical Expanded Interconnection arrangements are filed below:

Central Office
Meriden

Nonrecurring
Charge
\$1,127.96

WCSA Customer 05-WCSA-059:

Costs associated with removing three 50 amp A&B power feeds in the central office.

Central Office
New Haven 02

Nonrecurring
Charge
\$1,098.39

WCSA Customer 05-WCSA-060:

Costs associated with adding one 12 strand interconnection fiber cable in the central office.

Central Office
Hartford 03

Nonrecurring
Charge
\$4,851.18

WCSA Customer 05-WCSA-061:

Costs associated with adding one 12 strand interconnection fiber cable in the central office.

Central Office
Meriden

Nonrecurring
Charge
\$2,996.51

WCSA Customer 06-WCSA-065:

Costs associated with adding additional cage space to an existing caged collocation space in the central office.

Central Office Monthly
Hartford 03 Rate
\$164.60

Nonrecurring
Charge
\$7,931.28

Section 14 - Expanded Interconnection

14.17 Virtual Expanded Interconnection14.17.1 General

The Telephone Company will negotiate a virtual Expanded Interconnection arrangement on an individual case basis. Such virtual Expanded Interconnection arrangements will be consistent with the Federal Communications Commission's definition of virtual collocation. Virtual Expanded Interconnection shall enable collocators to designate or own equipment needed to terminate basic transmission facilities, including optical terminating equipment and multiplexers, to be located within the Telephone Company's central office and dedicated to the collocator's use. The collocator will use such equipment to connect the collocator's fiber optic cable or copper cable with the Telephone Company's equipment and facilities used to provide interconnection, access to UNEs and special and switched access services as specified in 14.3 preceding.

The same cross-connect termination rates and charges shall apply to Virtual Expanded Interconnection arrangements to make the connection from the designated point of termination to the Telephone Company's DS0, DSX1, or DSX3 panel as specified in 14.15 and 14.16 preceding.

14.17.2 Individual Case Basis Filings

Individual Case Basis virtual Expanded Interconnection arrangements are filed below:

WCSA Customer 02-WCSA-026:

This Special Network provides the CLEC customer with power re-fusing for 8-40 AMP power fuses to 8-20 AMP power fuses.

<u>Central Office</u>	<u>Nonrecurring Charge (per office):</u>
Ridgefield, Waterbury	\$884.84
Wallingford	\$884.36

WCSA Customer 02-WCSA-027:

This Special Network provides the CLEC customer with power re-fusing for 4-40 AMP power fuses to 4-20 AMP power fuses.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Norwich	\$796.00

WCSA Customer 02-WCSA-028:

This Special Network provides the CLEC customer with the installation of 8 DS1s and 16 DS3s.

<u>Central Office</u>	<u>Nonrecurring Charge (per office):</u>
Willimantic	\$28,080.31
Windsor Locks	\$31,424.70

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-54

Section 14 - Expanded Interconnection

14.17 Virtual Expanded Interconnection

14.17.2 Individual Case Basis Filings (Continued):

WCSA Customer 02-WCSA-029:

This Special Network provides the CLEC customer with the installation of 5 DS3s.

<u>Central Office</u>	<u>Nonrecurring</u> <u>Charge</u> (per office):
Meriden	\$11,369.46
Bridgeport 01	\$19,667.64

WCSA Customer 02-WCSA-030:

This Special Network provides the CLEC customer with the installation of 24 DS3s.

<u>Central Office</u>	<u>Nonrecurring</u> <u>Charge</u>
Hartford 03	\$32,720.62

WCSA Customer 02-WCSA-031:

This Special Network provides the CLEC customer with the installation of 20 DS3s.

<u>Central Office</u>	<u>Nonrecurring</u> <u>Charge</u>
Danbury	\$44,127.39

WCSA Customer 02-WCSA-032:

This Special Network provides the CLEC customer with the installation of 37 DS3s.

<u>Central Office</u>	<u>Nonrecurring</u> <u>Charge</u>
New Haven 02	\$80,684.60

WCSA Customer 02-WCSA-033:

This Special Network provides the CLEC customer with the installation of 22 DS3s.

<u>Central Office</u>	<u>Nonrecurring</u> <u>Charge</u>
New London 02	\$47,801.07

WCSA Customer 02-WCSA-034:

This Special Network provides the CLEC customer with the installation of 29 DS3s.

<u>Central Office</u>	<u>Nonrecurring</u> <u>Charge</u>
Stamford 01	\$42,366.86

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-55

Section 14 - Expanded Interconnection

14.17 Virtual Expanded Interconnection14.17.2 Individual Case Basis Filings (Continued):WCSA Customer 02-WCSA-035:

This Special Network provides the CLEC customer with the installation of 8 DS1s and 32 DS3s.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Waterbury	\$43,022.40

WCSA Customer 02-WCSA-036:

This Special Network provides the CLEC customer with the installation of 8 DS1s.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
New London 02	\$11,239.00

WCSA Customer 02-WCSA-037:

This Special Network provides the CLEC customer with the installation of 24 connectorized fiber strands.

<u>Central Office</u>	<u>Nonrecurring Charge (per office)</u>
Winsted	\$114,857.83
Watertown	\$45,336.36
New London 02	\$30,230.90
Putnam	\$76,173.54
Windsor	\$20,068.47
Cheshire 01	\$56,195.86
Danielson	\$31,354.32
Enfield 02	\$76,252.49
Storrs 01	\$71,636.87
New Milford	\$77,601.79
Mystic	\$92,411.09

WCSA Customer 02-WCSA-038:

This Special Network provides the CLEC customer with the installation of 2400 copper Shielded DSOs, Linesharing 1200 MECP and 1200 MEOE, 2 DS3s, 8-40 AMP power feeds, 1 Synchronization and 80 sq. ft. cageless space.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Waterbury	\$223,654.60

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-56

Section 14 - Expanded Interconnection

14.17 Virtual Expanded Interconnection

14.17.2 Individual Case Basis Filings (Continued):

WCSA Customer 02-WCSA-039:

Costs associated with the material and installation of a 3-20 AMP Power Feeds, 1 DS3, 2400 Copper Shielded DS0s, Line Sharing MEOE 1200 Pairs and MECP 1200 Pairs, and and 30 sq. ft. cageless floor space.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Hartford 06	\$96,612.51

WCSA Customer 02-WCSA-040:

Costs associated with the material and installation of a 4-40 AMP Power Feeds, 1 DS3, 1200 Copper Shielded DS0s, 24 connectorized fiber strands and 40 sq. ft. cageless floor space.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Norwich	\$24,696.08

WCSA Customer 02-WCSA-041:

Costs associated with the material and installation of a 8-40 AMP Power Feeds, 2 DS3s, 2400 Copper Shielded DS0s, and 80 sq. ft. cageless floor space.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
Wallingford	\$114,764.15

WCSA Customer 02-WCSA-042:

Costs associated with the material and installation of a 2-70 AMP Power Feeds, 28 DS3s, 1 Synchronization and 18 sq. ft. cageless floor space.

<u>Central Office</u>	<u>Nonrecurring Charge</u>
New London 02	\$142,419.93

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 14-57

Section 14 - Expanded Interconnection

14.17 Virtual Expanded Interconnection14.17.2 Individual Case Basis Filings (Continued):WCSA Customer 02-WCSA-043:

Costs associated with the material and installation of 4 Coppermax Cables, between 2 collocation arrangements, 1-20 AMP power feed and 10 sq. ft. cageless floor space.

Central Office
Wallingford

Nonrecurring
Charge
\$27,145.85

WCSA Customer 02-WCSA-044:

Costs associated with the material and installation of a 4-40 AMP Power Feeds, 1DS3, 1200 Copper Shielded DS0s, Line Sharing MECP-600 and MEOE-600, 24 connectorized fiber strands and 58 sq. ft. cageless floor space.

Central Office
Ridgefield

Nonrecurring
Charge
\$216,819.46

WCSA Customer 02-WCSA-045:

Costs associated with the material and installation of 1 DS3, and 2400 Copper Shielded DS0s in the central office

Central Office
Cheshire 01

Nonrecurring
Charge
\$56,195.86

WCSA Customer 05-WCSA-062:

Costs associated with adding one 24 strand interconnection fiber cable in the central office.

Central Office
Hartford 03

Nonrecurring
Charge
\$10,152.45

WCSA Customer 05-WCSA-063:

Costs associated with diverse entrance facilities for a virtual arrangement in the central office.

Central Office
Hartford 03

Nonrecurring
Charge
\$25,321.40

WCSA Customer 05-WCSA-064:

Costs associated with adding one 12 strand interconnection fiber cable in the central office.

Central Office
Hartford 03

Nonrecurring
Charge
\$3,165.10

Section 15 - End User

15.1 Miscellaneous End User Services15.1.1 International Direct Dial Blocking Service

International Direct Dial Blocking (IDDB) Service is an arrangement that allows aggregators to prevent use of their telephones for international direct dialed calls. This arrangement recognizes and blocks, by routing such calls to a recorded announcement, any attempt to dial international direct dialed sequences of 011+ and 10XXX 011+.

This optional end user feature is available where technically feasible for line-side services provided by the Telephone Company under its Local and/or General Exchange Service tariffs.

No separate nonrecurring charge will apply for the installation of IDDB Service when it is installed coincident with the installation of a Telephone Company exchange service line to which the blocking will apply. A separate nonrecurring charge applies to International Direct Dial Blocking Service when it is installed anytime subsequent to the installation of a Telephone Company exchange service.

The nonrecurring charge as set forth following applies per line for customers who have only one Telephone Company exchange service line, and per account, per request for customers who have multiple exchange service lines on a single account.

	Nonrecurring
	<u>Charge</u>
International Direct Dial Blocking Service	\$14.20

Section 15 - End User

15.1 Miscellaneous End User Services (Cont'd)15.1.2 900 Service Access Restriction

900 Service Access Restriction prevents access to the 900 network. When end users dial a 0+ or 1+ 900 pay-per-call number from a restricted telephone number, the 900 call is blocked.

A 900 Service Access Restriction charge as set forth below is applicable when ordered by the end user with the following exceptions:

- No charge will apply to the initial request to add blocking on a subscribers line.

For requests to block between 1 and 5 lines, the 900 Service Access Restriction charge as set forth in (A) following is applied for each Telephone Company line, trunk or Feature Group A switched access service to which 900 Service Access Restriction is added.

For requests to block over 5 lines, the 900 Service Access Restriction charge as set forth in (B) following is applied per Telephone Company end user account to which 900 Service Access Restriction is added.

Requests by end users to remove 900 Service Access Restriction must be submitted in writing to the Telephone Company.

	<u>Nonrecurring Charge</u>
(A) 900 Service Access Restriction, per line, 1 to 5 lines	\$12.00
(B) 900 Service Access Restriction, per account, over 5 lines	\$65.00

15.2 Intrastate Presubscription

Intrastate presubscription allows an end user or a Public Telephone provider for a public telephone to select and designate an intrastate Interexchange Carrier (IC) to the Telephone Company. This IC is referred to as the end user's or Public Telephone provider's primary intrastate IC and may be accessed by an end user for intraLATA intrastate calls without dialing an access code. Presubscription of Public Telephones is applicable only to 0+ interLATA Calls, 00- calls and 01+ international calls.

The end user of the account is defined as the person identified in the account as responsible for payment of the account or any person contractually or otherwise lawfully authorized to change telecommunications services and /or represent the end user.

Intrastate presubscription for residence and business lines is furnished in accordance with the provisions of the DPUC's Decision, Docket No. 94-02-07, released October 26, 1994.

Section 15 - End User

15.2 Intrastate Presubscription (Cont'd)

15.2.1 Intrastate Presubscription Charge Application

- A. An intrastate presubscription change charge does not apply to end users making their initial primary intrastate IC selection.

End users will incur an intrastate presubscription change charge for any subsequent changes.

An intrastate presubscription change charge applies for a change in primary intrastate IC after the end user's initial selection.

15.2.2 Intrastate Presubscription Change Charge

The nonrecurring charge for a change in intrastate presubscription is as follows:

- (a) A nonrecurring charge applies when the request to change Presubscription is submitted through mechanized methods.
- (b) A nonrecurring charge applies when the request to change Presubscription is submitted through manual methods.

As used above, manual methods are (i) personal interaction between an end user, or a person acting on behalf of an end user, and a Telephone Company employee; and (ii) any written submission from an end user, or a person acting on behalf of an end user, to a Telephone Company service center. Mechanized methods shall include all other methods. If a request utilizing a mechanized method results in manual processing, the mechanized nonrecurring charge shall apply upon completion of the request.

Section 15 - End User

15.2 Intrastate Presubscription (Cont'd)15.2.2 Intrastate Presubscription Change Charge (Cont'd)

	<u>Intrastate Presubscription Change</u>	<u>Nonrecurring Charge</u>
(1)	per Telephone Exchange Service line or trunk, or Public Telephone line	
	- manual change	\$4.90
	- mechanized change	\$1.52
(2)	per Centrex Common Block	\$56.99
(3)	per facility associated with Centrex Automatic Route Selection	\$56.99

Generally, this charge is billed to the end user or Public Telephone provider which is the subscriber to the Telephone Company Telephone Exchange Service except when such charge(s) are billed to an IC or an authorized local service provider.

For each Telephone Company Wholesale Local Service provided to a primary local carrier for residential, Public Telephone, or business services, the one-time charges for changing an end user's presubscription will be billed directly to the authorized local service provider.

15.2.3 PIC Dispute

In the case of a PIC change dispute, the alleged unauthorized carrier will be billed the appropriate Presubscription Change Charge(s) for the alleged unauthorized change and the appropriate Presubscription Change Charge(s) to change the customer to their preferred IC, as set forth in section 15.2.2 preceding.

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 16-1

Section 16 - Advanced Communications Services

16.1 General

Advanced Communications Services include a new generation of fast packet network services.

Section 16 - Advanced Communications Services

16.2 Frame Relay Service ¹ (Grandfathered)

(N)

16.2.1 Service Description

Frame Relay Service (FRS) utilizes digital technology applying Link Access Procedure - D (LAPD) protocol to provide high-speed access connections and throughput to customer networks. FRS enables customers to allocate circuit bandwidth to applications as desired utilizing statistical multiplexing, up to the maximum bandwidth purchased. LAPD protocol is based on CCITT recommendation I.122.

FRS requires data terminal equipment, which accumulates transmitted customer data and converts it to variable length information frames for transmission over the frame relay network. FRS supports transmission speeds up to DS3 level. The Telephone Company will provide access links to the frame relay network, which include the network interface at the customer's premises. The User to Network Interface (UNI) and Network to Network Interface (NNI) will conform to standards specified in Frame Relay Forum Documents FRF.1 and FRF.2.1; American National Standards Institute (ANSI) standards T1.606, T1.606 Addendum 1, T1.606 Addendum 2 and T1.617; Consultative Committee for International Telephony and Telegraphy (CCITT) standards I.122, I.233.1 and Q.933. It is the customer's responsibility to provide terminal equipment, which conforms with the above interface specifications.

The Telephone Company's frame relay network is accessed by a port connection on an FRS switch. Permanent Virtual Circuits (PVCs) are created to connect ports on an FRS switch or between FRS switches. PVCs are bi-directional channels that provide end-to-end service and are established through the access service request (ASR) process.

FRS is offered where facilities exist. If it is necessary to construct facilities to satisfy service requests at other locations, it may be provided pursuant to Special Construction as specified in Section 10. FRS is available at service points designated by the Telephone Company and identified in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Tariff FCC No. 4.

¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

(N)

(N)

Section 16 - Advanced Communications Services

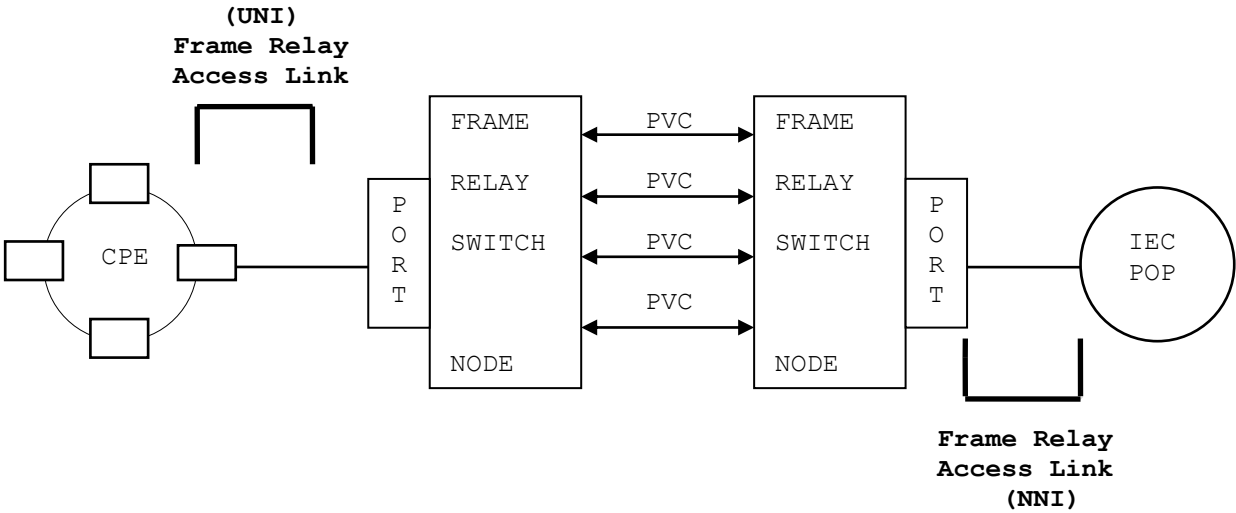
16.2 Frame Relay Service¹ (Grandfathered) (Cont'd)

(N)

16.2.1 Service Description (Cont'd)

Frame Relay Service (FRS)

Below is a typical configuration of
Frame Relay Service



¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

(N)

(N)

Section 16 - Advanced Communications Services

16.2 Frame Relay Service¹ (Grandfathered) (Cont'd)

(N)

16.2.2 Service Provisioning

FRS is subject to the General Regulations and Ordering Regulations for access service as specified in Sections 2 and 3, respectively. In addition, the following apply:

A. Ordering Information

The following information must be specified by customers when placing an order for FRS:

- Specify whether a Network to Network Interface (NNI) or User to Network Interface (UNI) is required with the Access Link, as specified in 16.2.3A following.
- When an NNI connection is ordered, specify the DLCI of the customer's network as specified in 16.2.3C following.
- Specify the Committed Information Rate (CIR) when ordering Permanent Virtual Circuits (PVCs) as specified in 16.2.3C following.
- Specify the type of link management protocol.

B. Limitations

- The responsibility of the Telephone Company shall be limited to furnishing network equipment suitable for FRS, and to the maintenance and operation of such equipment to achieve technical specifications delineated in technical publications supporting FRS as referenced herein. The Telephone Company shall not be responsible for the through transmission of signals generated by customer provided equipment or systems, or for the quality (or defects) of such transmission or the reception of signals by such equipment or systems.
- The Telephone Company shall not be responsible for error correction. Error correction is the responsibility of the customer provided frame relay compatible terminal equipment. FRS switches may discard frames with errors and may also discard frames subject to congestion control mechanisms as specified in CCITT standard I.370 and ANSI standard T1.606.

C. Service Interruptions

The Telephone Company will guarantee performance standards to all users of FRS. The average service availability is guaranteed at 99.5 percent up to the network interface. If the Telephone Company determines that the performance of the service falls below this level, it will be considered an interruption of service. The service interruption will be granted a credit allowance as specified in Section 2.12.2.

¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

(N)

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(N)

Section 16 - Advanced Communications Services

16.2 Frame Relay Service¹ (Grandfathered) (Cont'd)

(N)

16.2.3 Service Components

The Frame Relay network is accessed by Special Access links. FRS rate elements consist of Port Connections and Permanent Virtual Circuits (PVCs).

A. Access Link

The Access Link provides a channel from the customer premises to the FRS Port Connection. Access Links are provided under Section 5, Special Access, applying the channel termination rate element only. Access Links are available at 56, 64, 128, 256, 384 Kbps, 1.544 Mbps and 44.736 Mbps. DS1 and Fractional DS1 Access Links must be equipped with B8ZS capability and Extended Super Frame (ESF) format. DS3 links must be equipped with B3ZS capability and C bit parity.

The customer has the option of a Network to Network Interface (NNI) as defined in Frame Relay Forum Technical Publication FRF.2.1 or User to Network Interface (UNI) as defined in Frame Relay Forum Technical Publication FRF.1.

B. Port Connections

Port Connections are the physical entry points into the FRS network. Ports provide dedicated access to the frame relay switch at 56/64, 128, 256, 384 Kbps or 1.544 Mbps. Port Connections must be provided at the same transmission speed as the Access Link. One Access Link is required per Port Connection.

C. Permanent Virtual Circuits

The Permanent Virtual circuit (PVC) rate element provides an electronic path between two Port Connections within the frame relay network. The Data Link Connection Identifier (DLCI) is the address for the PVC which identifies the PVC connection between the customer's premises and the Telephone Company's frame relay network for a UNI connection or between the customer's frame relay network and the Telephone Company's frame relay network for an NNI connection. On an NNI connection, the customer must provide the NNI DLCI from their network to be mapped to the DLCI of the Telephone Company's network. The Telephone Company will always assign the UNI DLCI unless otherwise requested by the customer. Customers ordering a UNI connection to interconnect with another carrier's frame relay network, must provide the other carrier's NNI DLCI to the Telephone Company.

¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

(N)

(N)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 16-6

Section 16 - Advanced Communications Services

16.2 Frame Relay Service¹ (Grandfathered) (Cont'd)

(N)

16.2.3 Service ComponentsC. Permanent Virtual Circuits

PVCs are provisioned applying the customer specified Committed Information Rate (CIR) on ports of 56/64, 128, 256, 384 Kbps, 1.544 Mbps or 44.736 Mbps. The CIR for an individual PVC cannot exceed 50% of the speed of the Access Link. The aggregate CIR for all PVCs cannot exceed 200% of the speed of the Access Link.

Bursting is defined as the maximum throughput, which can be achieved on an individual PVC. The maximum that each PVC can be defined to burst is equal to the speed of the Access Link.

16.2.4 Rates and Charges

	Monthly Rate	Nonrecurring Charge
A. <u>Frame Relay Port Connection</u>		
UNI (User to Network Interface)		
- Per 56/64 Kbps Access Link	\$85.00	None
- Per 128 Kbps Access Link	\$120.00	None
- Per 256 Kbps Access Link	\$220.00	None
- Per 384 Kbps Access Link	\$320.00	None
- Per 1.544 Mbps Access Link	\$495.00	None
Optional Payment Plans:	<u>1 Year</u>	<u>3 Year</u> <u>5 Year</u>
- Per 56/64 Kbps Access Link	\$70.00	\$65.00 \$60.00
- Per 128 Kbps Access Link	\$105.00	\$95.00 \$90.00
- Per 256 Kbps Access Link	\$200.00	\$185.00 \$175.00
- Per 384 Kbps Access Link	\$295.00	\$275.00 \$260.00
- Per 1.544 Mbps Access Link	\$445.00	\$400.00 \$355.00
NNI (Network to Network Interface)	Monthly Rate	
- Per 1.544 Mbps Access Link	\$405.00	None
- Per 44.736 Mbps Access Link	\$2300.00	None
Optional Payment Plans:	<u>1 Year</u>	<u>3 Year</u> <u>5 Year</u>
- Per 1.544 Mbps Access Link	\$360.00	\$315.00 \$270.00
- Per 44.736 Mbps Access Link	N/A	\$2200.00 \$2100.00

(M)

¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

(N)

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(N)

Item B. relocated to Page 16-7.

(N)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 16-7

Section 16 - Advanced Communications Services

16.2 Frame Relay Service ¹ (Grandfathered) (Cont'd)

(N)

16.2.4 Rates and Charges (Cont'd)

	Monthly <u>Rate</u>	Nonrecurring <u>Charge</u>	(M)	
B. <u>Permanent Virtual Circuits</u>				
- Per PVC installed coincident with the initial installation of service	\$10.00	None		
- Per PVC installed subsequent to the installation of service	\$10.00	\$50.00		
- Change of CIR on PVC	N/A	\$50.00		
			(M)	
Optional Payment Plans:				
	<u>1 Year</u>	<u>3 Year</u>	<u>5 Year</u>	Nonrecurring <u>Charges</u>
- Per PVC installed coincident with the initial installation of service	\$9.00	\$8.00	\$7.00	None
- Per PVC installed subsequent to the installation of service	\$9.00	\$8.00	\$7.00	\$50.00

¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

(N)

(N)

Material relocated from Page 16-6.

(N)

Section 17 - Video Dialtone Trial Service

17.1 General

Video Dialtone Transport and Switching Trial Service provides access to the Telephone Company broadband network for the transmission of video programming and other information services.

Section 17 - Video Dialtone Trial Service

17.2 Application of Tariff

- 17.2.1 This section of the tariff contains regulations, rates and charges applicable to the provision of Trial Video Dialtone Transport and Switching Service ("Trial Service") and associated maintenance by The Southern New England Telephone Company (hereinafter referred to as the "Telephone Company") to a Programmer-Customer as defined herein. This tariff does not apply to any other service offered by the Company. General regulations in the Connecticut Access Tariff do not apply to the Trial Service.
- 17.2.2 The Telephone Company undertakes to provide the Trial Service pursuant to the regulations, rates and charges specified herein. The facilities and equipment used to provide the Trial Service will be selected by the Telephone Company.
- 17.2.3 Regulations, rates and charges as specified in this tariff apply only to the Telephone Company's offering of the Trial Service and associated maintenance to the Programmer-Customer and the Subscriber. The regulations, rates and charges do not apply to any Programmer-Customer's offering of services to its subscribers. The provision of the Trial Service by the Telephone Company as set forth in this tariff does not constitute a joint undertaking with any Programmer-Customer or the Subscriber for the furnishing of any service.

Section 17 - Video Dialtone Trial Service

17.3 Regulations

17.3.1 Definitions

Trial Video Dialtone Service ("Trial Service")

The services provided by the Telephone Company as further described in this tariff for the analog transmission of video programming and other information services.

Programmer-Customer

The party who provides video or other programming for analog transmission during the trial using the Trial Service hereunder and is in compliance with the regulations, rates and charges set forth herein.

Subscriber

The party subscribing to services offered by the Programmer-Customer in a Service Area and includes Broadcast, Enhanced Pay Per View, and Video on Demand end users.

Potential Subscriber

The party whose premises is passed by the Trial Service network.

Service Area

A Service Area is an area or portion of a town served by the network. The Northern Service Area consists of approximately 76,600 Potential Subscriber premises and is comprised of the towns of West Hartford (including the previously approved area), New Britain, Farmington, and Hartford. The Southern Service Area consists of approximately 75,000 Potential Subscriber premises and is comprised of the towns of Stamford, Norwalk, Darien, Westport, and Fairfield.

Video on Demand Service Area

Video on Demand transmission will be available in a portion of the Northern Area, consisting of approximately 1,600 Potential Subscriber premises in the town of West Hartford.

Network Demarcation Point or Demarcation Point

For purposes of the Trial Service, there are two Demarcation Points:

- (1) The Programmer-Customer Demarcation Point is the designated point of interconnection between the Programmer-Customer and the Telephone Company's network, which facilitates the transfer of program content.
- (2) The Subscriber Demarcation Point is the point of interconnection between the Telephone Company's network and any terminal equipment, protective apparatus, and inside wiring of the Subscriber.

Section 17 - Video Dialtone Trial Service

17.3 Regulations (Cont'd)

17.3.1 Definitions (Cont'd)

Video-On-Demand Subscriber

A party who subscribes to Video-On-Demand Services as described in Section 17.4 hereof.

Enhanced Pay-Per-View Subscriber

A party who subscribes to Enhanced Pay-Per-View Services as described in Section 17.4 hereof.

Broadcast Subscriber

A party who subscribes to Programmer-Customers services offered through the Broadcast Connection as described in Section 17.4 hereof.

17.3.2 Undertaking of Company

Description of Services

The Trial Service provides for the transport and switching of video programming or other information services on a test basis in a Service Area using a hybrid fiber optic-coax network.

The Telephone Company will construct, operate, own, and maintain the facilities necessary to furnish the Trial Service and the Programmer-Customers and Subscribers will have no ownership interest in such facilities.

The Telephone Company will provide all facilities between the Demarcation Points.

The Telephone Company does not warrant that its facilities and services meet standards other than those set forth in this tariff.

Section 17 - Video Dialtone Trial Service

17.3 Regulations (Cont'd)17.3.3 Liability

With respect to any claim or suit for damages arising out of failures or delays in the installation, maintenance or restoration of the Trial Service, or out of mistakes, omissions, interruptions, errors, or defects in transmission occurring in the course of providing the Trial Service hereunder, the Telephone Company's liability will in no event exceed \$500.00. The Telephone Company will not be liable for damages arising solely out of the facilities or equipment furnished by persons or entities other than the Telephone Company or caused solely by the negligence or the culpable acts or omissions of persons or entities other than the Telephone Company.

The Telephone Company will in no event be liable for indirect, special, incidental, or consequential damages, including, without limitation, loss of profits, loss of business, or other commercial or economic loss, resulting from its performance or failure to perform under this tariff, whether or not such damages result from the Telephone Company's own negligence, strict liability in tort, breach of contract, breach of warranty, or otherwise, and whether or not the Telephone Company has been advised of the possibility of such damages.

The Telephone Company will not be liable for any delay or failure in performance of any obligation under this tariff when such failure or delay results from acts or events beyond the Company's reasonable control, including, but not limited to, the Programmer-Customer or the Subscriber's acts or failures to act, acts or failures to act of other contractors or suppliers to the Programmer-Customer or the Subscriber or their subcontractors, acts or failures to act of the Programmer-Customer or the Subscriber, acts of God, acts of any civil or military authority, government regulations, fires, earthquakes, nuclear accidents, floods, volcanic or seismic action, other environmental disturbances, abnormal weather conditions, power blackouts, embargoes, strikes or other labor-related disputes, or delays by the Telephone Company's subcontractors or suppliers.

The Telephone Company will be held harmless from liability for defacement or damage to a Programmer-Customer or a Subscriber's premises resulting from the furnishing of facilities or equipment for the Trial Service described herein, or by the removal thereof, when such defacement or damage is not the result of negligence or willful acts of the agents or employees of the Telephone Company. The Telephone Company is not liable for damages to the Programmer-Customer's or the Subscriber's premises or facilities resulting from the furnishing of the Trial Service, including the installation and removal of equipment and associated wiring, unless the damage is caused by the Telephone Company's negligence.

Section 17 - Video Dialtone Trial Service

17.3 Regulations (Cont'd)17.3.4 Obligation of Programmer-Customer

The Programmer-Customer is responsible for providing all content and programming as well as the other terms and conditions including the price of its service. The Programmer-Customer is responsible for delivering its content to the Programmer-Customer Network Demarcation Point.

The Programmer-Customer must deliver its signal within the technical parameters specified by the Telephone Company. These parameters specify signal quality standards for noise, distortion and delay at the head-end and are defined in technical publications, which may be obtained from the Telephone Company. Failure to correct deficiencies in meeting such technical parameters will result in disconnection of the Programmer-Customer's Trial Service and possible forfeiture of the Programmer-Customer's performance deposit. Seven (7) days prior to disconnection of Trial Service, the Programmer-Customer will be notified of its non-compliance with the technical parameters by certified mail, including the actions necessary for the correction to avoid disconnection of the Trial Service.

The Programmer-Customer or the Subscriber may not rearrange, disconnect, remove or attempt to repair, or permit others to rearrange, disconnect, remove or attempt to repair, any equipment or facilities installed by the Telephone Company except as authorized by written consent of the Telephone Company. The Programmer-Customer will reimburse the Telephone Company for damages to the Telephone Company facilities utilized to provide Trial Service under this tariff caused by the negligence or willful acts of the Programmer-Customer or resulting from the Programmer-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.

The Programmer-Customer may advise its subscribers that the Trial Service is provided by the Telephone Company in connection with the service the Programmer-Customer furnishes to its subscribers; however, the Programmer-Customer will not represent that the Telephone Company jointly participates in the Programmer-Customer's services.

Section 17 - Video Dialtone Trial Service

17.3 Regulations (Cont'd)17.3.5 Access to Premises

The provision of the Trial Service by the Telephone Company is contingent upon access as necessary to the premises of the Programmer-Customer and the Subscriber during reasonable hours for the purpose of installing, inspecting, rearranging, repairing, maintaining, testing, adjusting, disconnecting, removing, or otherwise servicing any part of the Telephone Company's facilities and equipment.

17.3.6 Billing

The Programmer-Customer shall be invoiced by the Telephone Company at the level of the rates set forth in this tariff. Payments will be made by the Programmer-Customer to the Telephone Company upon receipt of invoice. Failure to make payment to the Company at the time due will subject the Programmer-Customer to termination of the Trial Service, following written notification by the Telephone Company. Thirty (30) days prior to disconnection of Trial Service, the Programmer-Customer will be notified by certified mail. In case of such disconnection, all applicable charges will become due immediately and the Programmer-Customer's performance deposit may be forfeited.

17.3.7 Interconnection of Facilities at Demarcation Points

Facilities on the premises of the Programmer-Customer and the Subscriber provided by other than the Telephone Company will be so constructed, maintained and operated so as not to interfere with or harm any service provided by the Telephone Company.

17.3.8 Indemnification

The Telephone Company will be indemnified, defended and held harmless by the Programmer-Customer or the Subscriber against any claim, loss or damage arising from the Programmer-Customer's or the Subscriber's use of services offered under this tariff, involving:

- (1) claims for libel, slander, invasion of privacy, obscenity, or infringement of copyright arising from the Programmer-Customer's or the Subscriber's own communications;
- (2) claims for patent infringement arising from the Programmer-Customer's or the Subscriber's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the Programmer-Customer or the Subscriber;
- (3) all other claims arising out of any act or omission of the Programmer-Customer or the Subscriber in the course of using services provided pursuant to this tariff.

Section 17 - Video Dialtone Trial Service

17.3 Regulations (Cont'd)17.3.9 Digital Channel Expansion

Notwithstanding anything in this tariff to the contrary, the Telephone Company reserves the right upon notice to convert all or any part of its transmission facilities and services from an analog to a digital format provided that each Programmer-Customer will be entitled to access to not less than an equal number of channels in the digital format to that which it had access to under the analog format.

17.3.10 Termination

Without limiting its rights under Section 17.3.6 above, the Telephone Company, by written notice to the Programmer-Customer or the Subscriber, may terminate the Trial Service in whole or in part without incurring any liability for any reason whatsoever, specifically including, but not limited to:

- A. The Telephone Company, by order of a court or other governmental authority of competent jurisdiction, is prohibited from furnishing the Trial Service. The effective date of this action will be as ordered by the court or governmental authority.
- B. The Programmer-Customer, by order of a court or other governmental authority of competent jurisdiction, is prohibited from furnishing the service which it provides. The effective date of this action will be as ordered by the court or governmental authority.
- C. The service furnished is used by a Programmer-Customer for unlawful purposes. The effective date of this action will be as ordered by the court or other governmental authority that finds that the service had been used for unlawful purposes.

17.3.11 Ordering Service

Trial Service may be ordered directly from the Telephone Company.

17.3.12 Number of Channels

A description of the number of channels to be utilized by the Programmer-Customer must be provided to the Telephone Company at the time of order, which in no event will be less than thirty (30) days before service is to commence.

Section 17 - Video Dialtone Trial Service

17.4 Services Description

Video-On-Demand Connection: Provides the Programmer-Customer with access to all Video-On-Demand Subscribers within a Service Area.

Enhanced Pay-Per-View Connection: Provides the Programmer-Customer with access to all Potential Enhanced Pay-Per-View Subscribers within a Service Area.

Broadcast Connection: Provides the Programmer-Customers with access to the broadband network and to all Potential Subscribers within a Service Area. To ensure program quality, the Programmer-Customer will conform to standards and procedures for delivery of its programming as set forth by the Telephone Company.

17.4.1 Terms and Conditions

When requesting the Trial Service, the Programmer-Customer must specify the desired channel bandwidth and number of channels. The following terms and conditions also apply:

A. Service Period

The service period for which the Trial Service is provided is for the Trial period. The service period commences on the date and hour the Trial Service is first made available to the Programmer-Customer.

B. Extended Period

Upon completion of a service period, the Programmer-Customer has no right to continue or extend the Trial Service for additional periods beyond the Trial Period or authorized extensions thereof.

C. Early Termination Liability

When services are disconnected prior to the expiration of the Service Period, termination liability is applicable.

The termination liability will apply as follows:

The termination liability will apply beginning at the date that service was terminated and will apply for the amount of remaining months in the Trial Period. The termination charges will be calculated on the programmer-customer's average monthly usage for the three months prior to the termination of service. The average monthly usage will be multiplied by the applicable rates as set forth in Section 4.0 following.

Programmer-Customer's obligation to pay termination charges will be subject to the following conditions:

Section 17 - Video Dialtone Trial Service

17.4 Services Description (Cont'd)

17.4.1 Terms and Conditions (Cont'd)

C. Early Termination Liability (Cont'd)

- (1) such termination charges will be subject to reduction to the extent that the Programmer-Customer's terminated channel capacity is utilized and paid for by a third party which would not (or could not) have used other available channel capacity or if the Programmer-Customer provides a third party who is ready, willing, and able to use and pay for Programmer-Customer's terminated channel capacity;
- (2) if the Programmer-Customer cancels the Trial Service due to the Telephone Company's repeated and continued failure to perform its material obligations hereunder (where such failure is likely to continue and have a material adverse effect on the Programmer-Customer), the Programmer-Customer will not be liable for payment of any termination charges.

D. Subscriber Information

The Programmer-Customer must provide all information necessary for the Telephone Company to provide for the requested service, the Subscriber's name, address and telephone number.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 17-11

Section 17 - Video Dialtone Trial Service

17.5 Rates and Charges

<u>Service Elements</u>	<u>Monthly Rate</u>
Broadcast Connection	
Per Broadcast Subscriber	
Per Channel (6 MHz*)	\$0.10
Video-On-Demand Connection	
Per One-Quarter Hour Time Slot	
Per Video Per Viewing Subscriber	0.125
Enhanced Pay-Per-View Connection	
Per Channel Per One-Quarter Hour	
Time Slot Per Viewing Subscriber	0.125

* Requirements for broadcast connections with per channel bandwidth less than 6 MHz will be priced at a pro-rata share of the 6 MHz rate.

Section 18 - Local Exchange Access Service

18.1 General Regulations

These regulations incorporate by reference as if set forth herein any interconnection agreement entered into between the Telephone Company and the customer pursuant to federal and state law once said agreement is approved and on file with the Department.

Wholesale Local Service (WLS) will be offered under this tariff consistent with the obligations under the FCC's decision to deregulate resale, UNE loops and UNE transport. *See Petition for Forbearance Pursuant to 47 U.S.C. § 160(c) to Accelerate Investment in Broadband and Next Generation Networks*, WC Docket No. 18-141, Memorandum Opinion and Order, 34 FCC Rcd 6503 (Aug. 2, 2019). Business Data Services, Report and Order on Remand and Memorandum Option Order, WC Docket Nos. 18-141 et al., 34 FCC rcd 5767 (rel. July 12, 2019). CLECs and local service resellers may continue to order WLS, analog UNE Loops and UNE transport under this Tariff through February 2, 2020. The Telco will not accept orders for WLS or analog UNE loops under this Tariff after February 2, 2020. WLS and analog UNE loops ordered after February 2, 2020 will be provided pursuant to an alternative commercial agreement. Embedded base WLS, analog UNE loops and UNE transport must be transitioned to an alternative commercial agreement no later than August 2, 2022.

These regulations and the general regulations set out at Section 2 will apply to services offered under this Tariff, except where the regulations may be inconsistent with the language included in an interconnection agreement between the Telephone Company and the customer, in which case the terms and conditions of the interconnection agreement shall prevail.

Local Exchange Access Service offers Certified Local Exchange Carriers (customers) unbundled network elements, Wholesale Local Service and interconnection arrangements for the purposes of providing local exchange services. This includes, but is not limited to the offering of loops, ports, the interconnection arrangements for loops and ports, Wholesale Local Service, and network interconnection arrangements. Certain local exchange access services, available to customers that are also certified to provide toll service in the State.

These services and interconnection arrangements provided herein will be available where facilities and equipment permit. Services under this Tariff will be provided to Certified Local Exchange Carriers on a non-discriminatory basis under the terms and conditions described herein.

The standard service offerings listed in this Tariff meet the needs of customers in general for items required to provide local exchange telephone service. The rates quoted contemplate the use of equipment and facilities without modification. When special arrangements are provided, the rates and charges to apply are determined by the circumstances in each case.

A. Customer

Customers with a Certificate of Public Convenience and Necessity for the provision of Local Exchange Services in the State of Connecticut are qualified to order services out of the Connecticut Access Service Tariff, Local Exchange Access Service Tariff, for services in the Modified Labor Market Area(s) for which they are certified to conduct business by the Department of Public Utility Control, pursuant to Section 16-247g of the General Statutes of Connecticut.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

A. Customer (Cont'd)

Certified Local Exchange Carriers (CLECs), depending on whether they choose to serve end users with their own facilities, e.g., switch provider, or some other provider's facilities, e.g., Wholesale Local Service purchased from the Telephone Company, will be considered facilities or non-facilities based respectively. This designation may vary for a Certified Local Exchange Carrier based on its method of serving its end users; i.e., a customer may be one or both at any one time.

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Although Section 18 is limited to Certified Local Exchange Carriers, Wireless Carriers may purchase telephone numbers, E911 trunk ports and ESCO trunking from this tariff. See Section 21.

A facilities based customer is one which directly owns, controls, or operates its own loops and/or ports to facilitate local exchange communication by telephone.

A non-facilities based customer is one, which does not directly own, control or operate its own loops and/or ports to facilitate local exchange communication by telephone.

The customer is solely responsible for any and all fraud associated with any service to which it subscribes. The Telephone Company assumes no responsibility, will not investigate, and will make no adjustments to customer accounts in cases of fraud or any other end user disputes.

B. Local Calls

Local calls are defined as the calls originated to and completed within the local service area of The Telephone Company as defined in the General Exchange Tariff - Toll Tariff. Toll calls include calls originated to all other exchanges within the State and out of State.

C. Unauthorized Local Exchange Carrier Change

An Unauthorized Local Exchange Carrier Change is a Certified Local Exchange Carrier initiated change in the local exchange service provider of an end user, where the end user denies authorizing such change and for which the local exchange carrier initiating the change is unable to produce a valid end user authorization.

D. Local Exchange Access Service Rearrangements

In addition, charges described in Section 2.10 may apply. Nonrecurring charges, which may apply are detailed below.

Record Charge

The Record Charge is for receiving, recording, and processing of customer requests for changes and/or additions that require certain Telephone Company administrative work.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

D. Local Exchange Access Service Rearrangements

Only one Record Charge applies for all changes and/or additions ordered simultaneously and to be provided at the same time for the same end user at the same location for the same line. Charges are applicable to, but not limited to the following:

Unbundled Network Elements Record Charge

- Software changes
- Billing change

Wholesale Local Service Record Charge *

- Software changes
- Service Order Charge

The Service Order Charge applies for the processing of a customer's Service Request submitted to the Telephone Company. The Telephone Company provides the customer with options for the delivery of the service request, with charges assessed accordingly. The customer may send the service request by mail, facsimile, or courier for processing by the Telephone company service representative, or the customer may input all order information and transmit information electronically to the Telephone Company.

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Non-Electronic Delivery Service Orders are divided into two categories - Simple and Complex. "Simple" and "Complex" describe the complexity of the UNE order and the effort required by the Service Representative in processing the LSR. The Non-Electronic Service Order Charge assessed is dependent upon the complexity of the order and the activity being performed:

- New Service Order Charge - Applicable when establishing the initial UNE product.
- Change Service Order Charge - Applicable when adding or changing service on an existing UNE and/or service.
- Disconnect Service Order Charge - Applicable when the service is disconnected.
- Record Service Order Charge - Applicable when making a change to the records (e.g., billing address).

The Electronic Delivery Service Order Charge applies when the customer utilizes an electronic interface to transmit an order that mechanically flows through the applicable systems to completion.

* When a telephone number change is requested for WLS, the nonrecurring charge for establishing new WLS (residence or business) applies.

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Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

D. Local Exchange Access Service Rearrangements (Cont'd)

Migration Charge

The Migration Charge is a charge that may apply to specific products or services when an end user account migrates from the Telephone Company to a CLEC or from one CLEC to another CLEC, on the same facilities. The application of charges is described in the individual product sections.

Migration Charges are applied on a per service order basis depending upon how the migration order is delivered. If the migration order is delivered through the use of an electronic interface whereby the order mechanically flows through the applicable systems to completion, then the electronic nonrecurring migration charge applies. If the order does not flow through the applicable systems, or is faxed, mailed or manually delivered, then the non-electronic migration charge applies.

Publishing Charge

The Publishing Charge is for receiving, recording, and processing of customer requests for changes and/or additions to directory listings that require certain Telephone Company administrative work.

Publishing Charge *

Change of listed name

Change of Local Exchange Access from a residence to business designation for directory purposes or vice versa

Add/Change additional listing

Change from listed service to non-listed or non-published

Change from non-listed or non-published service to listed service

Change from non-listed service to non-published service or vice versa

* This charge may apply to each individual listing for each end user line. This charge does not apply to establish a primary listing.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

D. Local Exchange Access Service Rearrangements (Cont'd)

Rearrangement Charge

The Rearrangement Charge is for arranging or rearranging central office operations associated with Local Exchange Access Service.

Rearrangement Charge applications include, but are not limited to the following:

Moves (or detachments and subsequent reattachments) of central line (drop wires) terminations on same building. When multiple moves or detachments/reattachments are made for the same end user at the same time and location, rearrangement charges may apply per line moved or may be based upon the cost of the work performed.

E. Service Types

For purposes of ordering, Local Exchange Access Services have been categorized by type. The categories are neither intended to limit a customer's use of a service nor to imply that a service is limited to a particular use.*

The various types of Local Exchange Access Services can be further differentiated according to technical parameters which define the technical characteristics of each service.

Customers can order Local Exchange Access Services in accordance with predefined technical specifications packages. In addition, customers may request certain enhancements associated with vertical switch features to meet specific requirements.

The customer is not permitted to request flat rate service (except public access) or to permit such service to remain on premises of a public or semi-public character when the service is located such that the public in general or patrons of the end user may make use of the service. On such premises, however, flat rate service may be requested provided that the service is located such that it is not accessible for public use.

* Limitations on use of unbundled network elements and unbundled element interconnection arrangements by customers are based on technical parameters and protection of the network as defined in the General Exchange Tariff Part II, Section 25; the Access Service Tariff, Sections 2 and 3; and applicable FCC Rules.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

E. Service Types (Cont'd)

The Telephone Company will not convert to a customer any end user service that is disconnected.

For those services that differentiate between residence, home office, and business service, the customer will provide the appropriate designation. The determination as to whether service should be classified as residence, Home Office, or business is based upon the character of the directory listings and the character of the premises where the service is located.

Service is classified as business service where it is located on premises, which are of a business, institutional, or occupational type and their service includes a yellow page listing.

Where the service is located on residential premises and where the listing is in the name of the individuals without a business designation, their service is classified as residential service.

Where service is located on residential premises and where the listing is either in the name of the business or the individual carries a business designation, the service is classified as Home Office service. In addition, services in other non-domicile structures, such as garages, barns or sheds, located either on the end user's premises or on a different premises, will be considered residential, Home Office, or business, depending on the primary use of the service. Home Office service provides that vertical features and nonrecurring charges are charged at the residence rates. However, business services and yellow page advertising are available, and business repair intervals are provided.

Exception to the above specifications is made in only the following cases:

1. Residence rates apply to service installed in churches, parish houses, church homes, convents and any other institutions devoted entirely to religious activities. Academies and colleges conducted by convents or other religious institutions, parochial schools and institutions where work is charitable as well as religious in character are not considered as being in the residence category, and business rates apply to such institutions.
2. Business rates apply to service installed in such locations as clubs and fraternity houses, where, although the use may be primarily of a social nature, the use of the service by a relatively large group of persons justifies the application of a business rate. Business service includes a yellow page directory listing.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

F. Negotiated Discount Plans (NDP)

The Telephone Company will negotiate discounts with customers committing to use its network. Discounts will vary based on commitments made to the Telephone Company for such variables as volumes or growth in services, revenues or traffic, and length of commitment, e.g., one to ten years. Discounts will apply to certain services offered in this Tariff. The particular customers subscribing to the Telephone Company's NDP are listed in Section 18.7.4 of this Tariff.

G. Cancellation or Deferment of Start of Services

When a service involving engineering and installation costs is ordered from the Telephone Company but the order is cancelled in whole or in part prior to complete installation or start of service, the customer is responsible for payment of the non-recoverable expenses (consisting of the loss on equipment and facilities installed or in process of being installed, the installation labor, cost of removal and other expense factors involved) incurred by the Telephone Company in connection with the order. Such payment shall in no event exceed the total of nonrecurring charges applicable to a complete installation, or such proportions thereof as would be applicable to the cancelled portion of the installation. Installation is considered to have started when, following receipt of an order, the Telephone Company incurs any expense in connection therewith or in preparation therefore which would not otherwise have been incurred.

When, at the request of the customer, the date for placing in service facilities ordered by the customer and involving investment, engineering and installation costs is deferred for a period of more than one month, a charge equal to the costs incurred apply for each month in excess of one that the deferment continues. Such costs include the recurring monthly carrying charges on the Telephone Company's investment in the facilities plus any other specific items of cost applicable to the deferment. In no case will the placing in service of facilities be deferred for more than 18 months; after 18 months the order will be considered as cancelled prior to establishment of service, and the customer is responsible for the payment on non-recoverable expenses as set forth above.

H. Performance of Work on End User Premises

Unless otherwise requested, all work on end user premises will be performed during regular working hours. Where a customer requests that the work be done outside of such hours, the Telephone Company may require the customer to bear any additional costs incurred.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

I. Multi-Unit Buildings

Demarcation points shall continue to be determined consistent with Part 68 of the rules of the Federal Communications Commission (47 CFR section 68). In multiunit premises existing as of August 13, 1990, the demarcation point shall be determined in accordance with the Telephone Company's reasonable and non-discriminatory standard operating practices, which may change over time. Provided, however, that where there are multiple demarcation points within the multiunit premises, a demarcation point for a customer shall not be further inside the customer's premises than a point twelve inches from where the wiring enters the customer's premises, or as close thereto as practicable.

In multiunit premises in which wiring is installed, including major additions or rearrangements of wiring existing prior to that date, the Company may place the demarcation point at the minimum point of entry (MPOE). If the Company does not elect to establish a practice of placing the demarcation point at the minimum point of entry, the multiunit premises owner shall determine the location of the demarcation point or points.

The multiunit premises owner shall determine whether there shall be a single demarcation point location for all customers or separate such locations for each customer. Provided, however, that where there are multiple demarcation points within the multiunit premises, a demarcation point for a customer shall not be further inside the customer's premises than a point 30 cm (12 in) from where the wiring enters the customer's premises, or as close thereto as practicable. At the time of installation, the Company shall fully inform the premises owner of its options and rights regarding the placement of the demarcation point or points and shall not attempt to unduly influence that decision for the purpose of obstructing competitive entry.

The MPOE shall be either the closest practicable point to where the wiring crosses a property line or the closest practicable point to where the wiring enters a multiunit building or buildings. The reasonable and nondiscriminatory standard operating practices of the Company shall determine which shall apply. The Company is not precluded from establishing reasonable classifications of multiunit premises for purposes of determining which shall apply. Multiunit premises include, but are not limited to, residential, commercial, shopping center and campus situations.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

I. Multi-Unit Buildings (Cont'd)

In instances where an MPOE or other "single demarcation point," as described in this section, has been established and then a subsequent or additional demarcation point is requested by the customer or property owner, in order to be accepted such request must, if made by the customer, be with the approval of the property owner and must be based on agreement by the Company's service with one of the following: (1) that new facilities involved with the request should enter the premises at a new point, with a new demarcation point located consistent with the requirements of this section; (2) that the "closest practicable point" for the demarcation point of the facilities in question to be used for the provision of the intended service requires a different demarcation point than the demarcation point in use for the currently provided services (e.g., because of distance limitations or environmental needs for certain fiber-based terminal equipment); or (3) that the requested demarcation point would be otherwise beneficial and consistent with this section and Part 68. Any such subsequent or additional demarcation points will be paid for by the customer or property owner based upon costs described in Section 10.

J. Customer Authorization

In the event that an end user challenges action taken by the Telephone Company as a result of a customer's service request, the customer will provide evidence of proper authorization within thirty (30) days. The customer agrees to indemnify, defend, and hold the Telephone Company harmless from and against any claims, damages or losses (including attorney's fees) resulting from or arising out of said challenge, regardless of the evidence or lack thereof that the customer is able to produce. The customer understands that failure to comply with these terms will be reported to the DPUC.

In the event that an end user challenges the customer's billing which resulted from service requests submitted to the Telephone Company from the customer and which have been installed as ordered, then the customer will indemnify, defend and hold the Telephone Company harmless from and against any claims, damages or losses (including attorney's fees) resulting from or arising out of said challenge, regardless of the evidence or lack thereof that the customer is able to produce.

In placing service requests for Local Exchange Access Service on behalf of its end users, the customer will abide by all conditions for such service requests established by the DPUC.

In no event shall the Telephone Company be liable to the customer or its end users for any direct, indirect, special, or consequential damages of any kind whatsoever with respect to or arising out of these terms.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

K. Re-use of Facilities

When an end user either withdraws its authorization from or changes Local Service Providers and the network functions are provided by the Telephone Company to both the relinquishing and acquiring local service providers, the Telco will require re-use of existing facilities.

L. Change in Service Arrangement

If a modification of use causes a private line or switched ethernet service to be re-designated from an Exchange to an Access status, such a change is allowed without incurring Termination Charges given the following conditions are met:

- There must be no change in service locations.
- The new Term Payment Plan (TPP) must be equal to or longer than the remaining time in the existing TPP.

Upgrades are permitted subject to terms and conditions in underlying product tariffs.

Appropriate charges associated with the service under the new jurisdiction will apply.

M. Enhanced Provisioning Services

Enhanced Provisioning Services consist of four premium service offerings available to customers to enhance the provisioning of the Telephone Company's wholesale local exchange services. Enhanced Provisioning Services, specifically Pre Due Date Service Confirmation Service, Expedite Service, Coordinated Cutover Service, and Out of Hours Service are: (i) premium in nature; (ii) not subject to resale obligations; and (iii) not essential to the customer's provisioning of telecommunications services. The availability and provisioning of the Enhanced Provisioning Services is dependent upon Telephone Company resource and workload limitations at the time the customer requests Enhanced Provisioning Services.

Except in the case of any loss arising from the gross negligence or willful misconduct of the Telephone Company (including that of its agents, servants, contractors or others acting in aid or concert with it) in providing Enhanced Provisioning Services, the Telephone Company's liability for any loss relating to or arising out of any negligent act or omission in providing Enhanced Provisioning Services shall be limited to the total amount that is or would have been charged to the customer for the service(s) of function(s) not performed or improperly performed.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

M. Enhanced Provisioning Services (Cont'd)

(1) re Due Date Service Confirmation (PDDSC) Service *,**

A PDDSC Service applies when a customer requests assurance that the products/services ordered by the customer will be available on the requested due date. The PDDSC Service charge may be applied to the installation of certain regulated products and services. These products and services may include both dispatchable and non-dispatchable POTS and both dispatchable and non-dispatchable complex services.

The Telephone Company may limit the number of service orders, which can be assured based on workload and resources available. PDDSC Service will be approved on a non-discriminatory basis, by requesting carrier, and on a first come, first served basis.

(D)
(D)

PDDSC Service may be combined with Coordinated Cutover Service and Out of Hours Service; however, the Coordinated Cutover Service and Out of Hours Service charge(s) will also apply (see Sections 18.1K(3) and (4))

In the event the Telephone Company fails to meet the PDDSC Service commitment for Company reasons the customer will not be charged the PDDSC Service charge. However, in the event a PDDSC Service commitment is missed due to the customer, its agent or end user reasons, the PDDSC Service charge will be applied. For example, if the customer requests any change to an order with PDDSC Service including, but not limited to, the Telephone Company's inability to gain access to the customer's end user's premises, or the customer/end user is not ready to proceed with the order, the PDDSC Service will apply and the Telephone Company is no longer obligated to ensure PDDSC Service on that order. Established PDDSC commitments will not be deferred during an unanticipated heavy workload period.

* The Telephone Company reserves the right to suspend the availability of the PDDSC Service during unanticipated heavy workload/activity periods. Heavy workload includes any unanticipated volume of work that impacts the Telephone Company's ability to provide its baseline service. Where time permits, the Telephone Company will make every effort to notify the customer when such unanticipated activities occur.

** The PDDSC applies to the provisioning of certain regulated products and services.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

M. Enhanced Provisioning Services (Cont'd)

(2) Expedite Service *,**

An Expedite Service applies when a customer requests that a service be provided on an earlier date than the currently offered due date. The Expedite Service Order Charge may be applied to the installation of certain regulated products and services. These products and services may include vertical features, both dispatchable and non-dispatchable POTS, and both dispatchable and non-dispatchable complex services.

The Telephone Company may limit the number of service orders which can be expedited based on workload and resources available. Expedite Service will be approved on a non-discriminatory basis, by requesting carrier, and on a first come, first served basis.

(D)

(D)

Expedite Service may be combined with Coordinated Cutover Service and Out of Hours Service, however, the Coordinated Cutover Service and Out of Hours Service charge(s) will also apply (see Sections 18.1K(3) and (4) of this Tariff).

In the event the Telephone Company fails to meet the Expedite Service commitment for Company reasons the customer will not be charged the Expedite Service charge. However, in the event an Expedite Service commitment is missed due to the customer, its agent or end user reasons, the Expedite Service charge will be applied. For example, if the customer requests any change to an order with Expedite Service including, but not limited to, the Telephone Company's inability to gain access to the customer's end user's premises, or the customer/end user is not ready to proceed with the order, the Expedite Service charge will apply and the Telephone Company is no longer obligated to ensure the Expedite Service on that order.

* The Telephone Company reserves the right to suspend the availability of the Expedite Service during unanticipated heavy workload/activity periods. Heavy workload includes any unanticipated volume of work that impacts the Telephone Company's ability to provide its baseline service. Where time permits, the Telephone Company will make every effort to notify the customer when such unanticipated activities occur.

** The Expedite Service applies to the provisioning of certain regulated products and services.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

M. Enhanced Provisioning Services (Cont'd)

(3) Coordinated Cutover Service *,**

A Coordinated Cutover Service applies when a customer requests a designated installation and/or conversion of service during, or after, normal business hours. A designated installation is defined as an installation of service occurring at a specific time of day as specified by the customer. A conversion of service is defined as the matching of the disconnect of one telecommunications product or service with the installation of another telecommunications product or service. The customer will initiate the beginning of the cutover or conversion by contacting the appropriate coordination center. This special request enables the customer to schedule and coordinate particular provisioning requirements with the Telephone Company. The Coordinated Cutover Service charge may be applied to the installation of certain regulated products and services. These products and services may include vertical features, both dispatchable and non-dispatchable POTS, and both dispatchable and non-dispatchable complex services.

Additional labor charges also apply as specified in Sections 6.7.2 A, B, C, and D of this Tariff. The Telephone Company may limit the number of service orders that can be coordinated based on workload and resources available. Coordinated Cutover Service will be approved on a non-discriminatory basis, by requesting carrier, and on a first come, first served basis.

(D)

(D)

Coordinated Cutover Service may be combined with other Telephone Company offered provisioning services such as Pre Due Date Service Confirmation (PDDSC) Service, Expedite Service, and Out of Hours Service. However, the charges associated with the PDDSC Service, Expedite Service, and Out of Hours Service will also apply (see Sections 18.1K(1), (2), and (4) of this Tariff).

* The Telephone Company reserves the right to suspend the availability of Coordinated Cutover Service during unanticipated heavy workload/activity periods. Heavy workload includes any unanticipated volume of work that impacts the Telephone Company's ability to provide its baseline service. Where time permits, the Telephone Company will make every effort to notify the customer when such unanticipated activities occur.

** The Coordinated Cutover applies to the provisioning of certain regulated products and services.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

M. Enhanced Provisioning Services (Cont'd)

(3) Coordinated Cutover Service *,** (Cont'd)

In the event the Telephone Company fails to meet the Coordinated Cutover Service commitment for Company reasons the customer will not be charged the Coordinated Cutover Service charge. However, in the event a Coordinated Cutover Service commitment is missed due to the customer, its agent or end user reasons, the Coordinated Cutover Service charge will be applied. For example, if the customer requests any change to an order with Coordinated Cutover Service including, but not limited to, the Telephone Company's inability to gain access to the customer's end user's premises, or the customer/end user is not ready to proceed with the order, the Coordinated Cutover charge will apply and the Telephone Company is no longer obligated to ensure the Coordinated Cutover on that order.

(4) Out of Hours Service *,**

An Out of Hours Service applies when a customer requests that a service be provided during a commitment window that is outside of the normally scheduled business day of the Telephone Company. The Out of Hours service supports commitment windows that are outside the normal schedule of 8:00 A.M. to 5:00 P.M., Monday through Friday, Eastern Time (evening, early morning, Saturday, Sunday and Holiday). The Out of Hours Service charge may be applied to the installation of certain regulated products and services. These products and services may include both dispatchable and non-dispatchable POTS, and both dispatchable and non-dispatchable complex services.

Additional labor charges also apply as specified in Sections 6.7.2 A, B, C, and D of this Tariff. The Telephone Company may limit the number of service orders that can be performed out of hours based on workload and resources available. An Out of Hours Service will be approved on a non-discriminatory basis, by requesting carrier, and on a first come, first served basis.

(D)

(D)

* The Telephone Company reserves the right to suspend the availability of the Out of Hours Service during unanticipated heavy workload/activity periods. Heavy workload includes any unanticipated volume of work that impacts the Telephone Company's ability to provide its baseline service. Where time permits, the Telephone Company will make every effort to notify the customer when such unanticipated activities occur.

** The Out of Hours service applies to the provisioning of certain regulated products and services.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

M. Enhanced Provisioning Services (Cont'd)

(4) Out of Hours Service *,**,***,**** (Cont'd.)

Out of Hours Service may be combined with other Telephone Company offered provisioning services such as Pre Due Date Service Confirmation (PDDSC) Service, Expedite Service, and Coordinated Cutover Service. However, the charges associated with the PDDSC Service, Expedite Service, and Coordinated Cutover Service will also apply (see Sections 18.1K(1), (2), and (3) of this Tariff).

In the event the Telephone Company fails to meet the Out of Hours Service commitment for Company reasons the customer will not be charged the Out of Hours Service charge. However, in the event an Out of Hours Service commitment is missed due to the customer, its agent or end user reasons, the Out of Hours Service Charge will be applied. For example, if the customer requests any change to an order with Out of Hours Service including, but not limited to, the Telephone Company's inability to gain access to the customer's end user's premises, or the customer/end user is not ready to proceed with the order, the Out of Hours charge will apply and the Telephone Company is no longer obligated to ensure the Out of Hours on that order.

- * The Friday following Thanksgiving is a floating Holiday and may alternate between the day following Thanksgiving and the day following Christmas and is dependent on the Telephone Company Bargaining Unit Labor Contract.
- ** The Company will maintain the expanded 7:00 P.M. - 8:00 P.M. Frame Due Time (FDT) window for Local Number Portability (LNP) as is currently offered.
- *** The Telephone Company reserves the right to suspend the availability of the Out of Hours Service during unanticipated heavy workload/activity periods. Heavy workload includes any unanticipated volume of work that impacts the Telephone Company's ability to provide its baseline service. Where time permits, the Telephone Company will make every effort to notify the customer when such unanticipated activities occur.
- ****The Out of Hours service applies to the provisioning of certain regulated products and services.

Section 18 - Local Exchange Access Service

18.1 General Regulations (Cont'd)

M. Enhanced Provisioning Services (Cont'd)

(4) Out of Hours Service (Cont'd)

The Out Of Hours Service availability Service Order Commitment Window is outlined below:

SERVICE ORDER COMMITMENT WINDOW

CATEGORY	DAYS	HOURS
Out of Hours Scheduled Work Day	Monday, Tuesday, Wednesday, Thursday, Friday	12:00 - 7:59 AM 5:01 - 11:59 PM
Non Scheduled Work Day	Saturday, Sunday, Holiday	8:00 AM - 5:00 PM
Out of Hours Non Scheduled Work Day	Saturday, Sunday, Holiday	12:00 - 7:59 AM 5:01 - 11:59 PM

Holidays observed by the Telephone Company are:

New Years Day	January 1
Labor Day	1st Monday in September
Presidents Day	3rd Monday in February
Columbus Day	2nd Monday in October
Good Friday	--
Thanksgiving Day	4th Thursday in November
Floating Holiday*	4th Friday in November
Memorial Day	Last Monday in May
Fourth of July	July 4
Christmas Day	December 25

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements18.2.1 Local Loop Elements

The local loop element provides a transmission facility between the Minimum Point Of Presence (MPOP) at an end user location and the Main Distribution Frame (MDF) or Digital Cross-connect Bay (DSX) of the Telephone Company's designated Serving Wire Center (SWC). The local loop element includes access to an end user's inside premises wiring through the Telephone Company's existing Network Interface Device (NID) arrangement. This element is applicable even if the end user premises and the serving wire center are located in the same Telephone Company building. The Telephone Company shall determine the loop "make up" which may be physical (metallic) or derived (e.g., Digital Loop Carrier).

Where applicable, the local loop includes all wire within multiple dwelling and tenant buildings and campuses that provides access to customer premises wiring, provided such wire is owned and controlled by the Telephone Company. The local loop network element includes all features, functions and capabilities of the transmission facility, including attached electronics (except those electronics used for the provision of advanced services, such as Digital Subscriber Line Access Multiplexers), and line conditioning. The local loop includes but is not limited to DS1 and other high capacity loops to the extent required by applicable law, and where such loops are deployed in the Telephone Company wire centers.

CLECs purchasing loop elements from the Telephone Company agree to operate each loop type within the technical descriptions and parameters accepted within the industry. The following local loop element types are available to customers:

- A. 2 Wire Voice Grade supports analog transmission of 300-3000 Hz, repeat loop seizure and disconnect in one direction (towards the wire center), and repeat ringing in the other direction (towards the end user). This is a POTS type of loop that will support most voice grade residential, business, Centrex, and PBX type services. Signaling options includes loop start or ground start. Two wire voice grade local loop elements consist of the following categories:

- (1) Simple-Process Loop is a single purpose local loop element designated for the specific application of delivering a local loop, through a 2-wire cross-connect termination, to a customer's collocated Point of Termination. The customer's collocated Point of Termination must be within the same central office building as the loop. The Simple-Process Loop is not connected with the Telephone Company's trouble isolation and/or line testing systems. Trouble isolation and/or line testing functions are the responsibility of the customer (local service provider). A labor service charge will be applied each time the Telephone Company is requested to perform additional testing (e.g., trouble isolation and/or line testing). See Section 6.7.2(C) of this Tariff for rates and charges associated with labor service charges for additional testing.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)

A.(1) (Cont'd)

The Simple-Process Loop is not available for customer use in conjunction with inter-wire center transport and/or multiplexing.

- (2) Complex-Process Loop is a local loop element provisioned according to the customer's specifications (e.g., in conjunction with inter-wire center transport) and is equipped with the Telephone Company's remote access testing capabilities. Trouble isolation and/or line testing are features of the Complex-Process Loop.

The Complex-Process Loop may be used in conjunction with inter-wire center transport and/or multiplexing. Collocation in the same central office as the requested loop is not required.

- B. 2 Wire ISDN Digital Grade 160 Kps supports digital transmission of two 64 Kbps bearer ("B") channels and one 16 Kbps data ("D") channel. This is a 2B+D basic rate Integrated Service Digital Network (BRI-ISDN) ¹ type of loop, which meets National ISDN standards. (C)

- C. 4 Wire DS1 Digital Grade + supports full duplex transmission of isochronous serial data at 1.542 Mbps. This is a T-1/DS1 type of loop and provides the equivalent of 24 voice grade/DS0 channels. Available options include Extended Super Frame (ESF) and Clear Channel Signaling capability (B8ZS format).

- D. DS3 Digital Grade Loop + provides a digital, 45 Mbps transmission path from the Telephone Company's Central Office to the customer's end user location. Unbundled DS3 Loops may not be employed in combination with transport facilities to replace special access services or facilities, except as consistent with the certification and other requirements of the Supplemental Order released and adopted by the FCC on November 24, 1999 in Docket No. 96-98 ("In the matter of the Implementation of the Local Competition Provisions of the Telecommunications Act of 1996"), including but not limited to, the requirement that significant local exchange traffic, in addition to exchange access service, be provided to a particular customer over the facilities in compliance with the Supplemental Order, and with the Telephone Company's processes implementing the Supplemental Order.

+ As of March 11, 2005, the effective date of the Order on Remand, *Unbundled Access to Network Elements; Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, WC Docket No. 04-313; CC Docket No. 01-338, Released February 4, 2005 ("TRO Remand Order"), CLECs may not obtain and the Telco is not required to provide access to DS1/DS3 Loops on an unbundled basis under certain circumstances. The Telco will not accept orders for DS1/DS3 Loops in excess of the caps established in the TRO Remand Order or in service areas served by wire centers meeting the criteria set forth in the TRO Remand Order. Embedded base DS1/DS3 Loop end user customers must be transitioned to an alternative service arrangement within the 12 month transition period (ending March 11, 2006) outlined in the TRO Remand Order.

¹ BRI-ISDN is grandfathered and limited to existing customers at existing locations as of March 28, 2022. Moves, additions or changes will not be permitted. (N)

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)

- E. Digital Subscriber Line (xDSL) Capable Loop describes loops, that may support various technologies and services. The 'x' in xDSL is a placeholder for the various types of DSL services. The Telephone Company will provide a loop for a CLEC to deploy xDSL technologies presumed acceptable for deployment or non-standard xDSL technology as defined below. The Telephone Company will not impose limitations on the transmission speeds of xDSL services; provided, however, that the Telephone Company does not guarantee transmissions speeds, available bandwidth or simply any service level.

The Telephone Company shall not deny CLEC's request to deploy any loop technology that is presumed acceptable for deployment unless it is demonstrated that CLEC's deployment of the specific loop technology will significantly degrade the performance of other advanced services or traditional voice band services. The Telephone Company shall not impose its own standards for provisioning xDSL services, through Technical Publications or otherwise, until and unless approved by the Department or the FCC prior to use.

If a CLEC chooses to introduce a technology approved or successfully deployed elsewhere, the CLEC will provide documentation describing that action to the Telephone Company and the Department before or at the time of its request to deploy such technology within the Telephone Company's network. The documentation should include the date of approval or deployment, any limitations included in its deployment, and a sworn attestation that the deployment did not significantly degrade the performance of other services.

If a CLEC chooses to introduce a technology that does not conform to existing industry standards and has not been approved by an industry standards body, the CLEC must demonstrate that its proposed deployment meets the threshold for a presumption of acceptability and will not, in fact, significantly degrade the performance of other advanced services or traditional voice band services.

* In offering these tariffed provisions, the Telco does not waive and expressly reserves all of its rights, remedies and arguments with respect to any federal or state regulatory, legislative or judicial action(s), including, without limitation, the D.C. Circuit's decision in *USTA, et al. v. FCC*, 290 F.3d 415 (D.C. Cir. 2002) ("USTA I"), and following remand and appeal, *USTA v. FCC*, Case No. 00-1012 (D.C. Cir. 2004), issued on March 2, 2004 ("USTA II"), and the FCC's Triennial Review Order, released on August 21, 2003, In the Matter of Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, CC Docket No. 01-338, Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98, Deployment of Wireline Services Offering Advanced Telecommunications Capability, CC Docket No. 98-147 (FCC 03-36), and any other relevant government actions which have not yet been fully incorporated into these tariffs or which may be the subject of further government review including, but not limited to, the Telco's intervening law rights and any legal or equitable rights of review and remedies (including agency reconsideration and court review) (collectively "Government Actions"). Accordingly, the Telco reserves the right to withdraw, revise or otherwise modify its tariffs consistent with the Government Actions.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)E. Digital Subscriber Line (xDSL) Capable Loop (Cont'd)

The Telephone Company is not required to provision xDSL loops in any instance where physical facilities do not exist that meet the technical specifications for this type of loop.

- (1) For each of the xDSL loop types, a CLEC will, at the time of ordering, notify the Telephone Company as to the Power Spectral Density ("PSD") mask of the technology the CLEC will deploy. If and when a change in PSD mask is made, the CLEC will immediately notify the Telephone Company. Upon request from the CLEC, the Telephone Company will inform the CLEC of the number of loops using advanced services technology within the binder and type of technology deployed on those loops. The Telephone Company will use this information for the sole purpose of maintaining an inventory of advanced services present in the cable sheath. If the technology the CLEC chooses to deploy does not have a PSD mask and/or fit within a national standard PSD mask, the CLEC shall provide the Telephone Company with a technical description of the technology (including power mask) for inventory purposes.

- (a) 2-Wire xDSL Loop: A 2-wire xDSL loop is a copper loop over which a CLEC may provision various DSL technologies. A copper loop used for such purposes will meet basic electrical standards, such as metallic connectivity and capacitive and resistive balance. Removal of load coils, repeaters or excessive bridged taps on an existing loop is optional, subject to conditioning charges, and will be performed at the CLEC's request except as otherwise provided herein.

- (b) 4-Wire xDSL Loop: A 4-Wire xDSL loop is a copper loop over which a CLEC may provision DSL technologies. A copper loop used for such purposes will meet basic electrical standards, such as metallic connectivity and capacitive and resistive balance. Removal of load coils, repeaters or excessive bridged taps on an existing loop is optional and will be performed at a CLEC's request except as otherwise provided herein.

* In offering these tariffed provisions, the Telco does not waive and expressly reserves all of its rights, remedies and arguments with respect to any federal or state regulatory, legislative or judicial action(s), including, without limitation, the D.C. Circuit's decision in *USTA, et al. v. FCC*, 290 F.3d 415 (D.C. Cir. 2002) ("USTA I"), and following remand and appeal, *USTA v. FCC*, Case No. 00-1012 (D.C. Cir. 2004), issued on March 2, 2004 ("USTA II"), and the FCC's Triennial Review Order, released on August 21, 2003, In the Matter of Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, CC Docket No. 01-338, Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98, Deployment of Wireline Services Offering Advanced Telecommunications Capability, CC Docket No. 98-147 (FCC 03-36), and any other relevant government actions which have not yet been fully incorporated into these tariffs or which may be the subject of further government review including, but not limited to, the Telco's intervening law rights and any legal or equitable rights of review and remedies (including agency reconsideration and court review) (collectively "Government Actions"). Accordingly, the Telco reserves the right to withdraw, revise or otherwise modify its tariffs consistent with the Government Actions.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)E. Digital Subscriber Line (xDSL) Capable Loop (Cont'd)

- (2) If the Telephone Company or a CLEC claims that a service is significantly degrading (with the exception of HFPL access) the performance of other advanced services or traditional voice band services, the Telephone Company or CLEC must notify the causing carrier and allow that carrier a reasonable opportunity to correct the problem. Any claims of network harm must be supported with specific and verifiable supporting information. If the Telephone Company or a CLEC demonstrates that a deployed technology is significantly degrading the performance of other advanced services or traditional voice band services, the carrier deploying the technology shall discontinue deployment of that technology and migrate its customers to technologies that will not significantly degrade the performance of such services.

(3) Spectrum Inventory Guidelines

A CLEC must advise the Telephone Company of the PSD mask approved or proposed by T1.E1 that reflects the service performance parameters of the technology to be deployed over the xDSL loop or the HFPL. The CLEC, at its option, may provide any service compliant with that PSD mask so long as it stays within the allowed service performance parameters.

- (a) In the event that the FCC or the industry establishes long-term standards, practices and policies relating to spectrum compatibility and spectrum management that differ from those established in this tariff, the Telephone Company and the CLEC agree to comply with the FCC and/or industry standards, practices and policies. The Telephone Company will work with the CLECs to establish a transition plan and timeframe for achieving and implementing such industry standards, practices and policies.
- (b) Within thirty (30) days after general availability of equipment, conforming to applicable industry standards or the mutually agreed upon standards developed by the industry in conjunction with the Department or FCC, the Telephone Company and/or CLEC must begin the process of bringing its deployed xDSL technologies and equipment into compliance with such standards at its own expense.

* In offering these tariffed provisions, the Telco does not waive and expressly reserves all of its rights, remedies and arguments with respect to any federal or state regulatory, legislative or judicial action(s), including, without limitation, the D.C. Circuit's decision in *USTA, et al. v. FCC*, 290 F.3d 415 (D.C. Cir. 2002) ("USTA I"), and following remand and appeal, *USTA v. FCC*, Case No. 00-1012 (D.C. Cir. 2004), issued on March 2, 2004 ("USTA II"), and the FCC's Triennial Review Order, released on August 21, 2003, In the Matter of Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, CC Docket No. 01-338, Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98, Deployment of Wireline Services Offering Advanced Telecommunications Capability, CC Docket No. 98-147 (FCC 03-36), and any other relevant government actions which have not yet been fully incorporated into these tariffs or which may be the subject of further government review including, but not limited to, the Telco's intervening law rights and any legal or equitable rights of review and remedies (including agency reconsideration and court review) (collectively "Government Actions"). Accordingly, the Telco reserves the right to withdraw, revise or otherwise modify its tariffs consistent with the Government Actions.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)E. Digital Subscriber Line (xDSL) Capable Loop (Cont'd)(3) Spectrum Inventory Guidelines (Cont'd)

The Telephone Company's unbundled DSL loop offering (where facilities are available), Loop Qualification, and Loop Conditioning are described following.

- (4) In order for the Telephone Company to maintain spectrum compatibility and management of its network, the customer is responsible for informing the Telephone Company of the specific technology that it is provisioning on the DSL loop. The following Power Spectral Density (PSD) mask/categories either: (i) have been developed by ANSI, or (ii) are pending before ANSI and upon adoption of the final standards the Telephone Company and the Customer will comply with such final standards in their deployment:

- (a) PSD #1 Capable Loop - 2-Wire ISDN-DSL (IDSL) Capable Loop: is 2-Wire ISDN-DSL (IDSL) Capable Loop is a loop that supports the transmission of technology which is consistent with current ANSI contributions under study for very low band symmetric technology. The customer's transmission rate over a VLS Capable Loop shall not be limited, except as may be required in order to conform to the power and spectrum parameters set forth in ANSI T1E1.4 / 2000-002R5 which is a proposed standard under study by ANSI and ANSI T1.601.
- (b) PSD #2 Capable Loop - 2-Wire Low-band Symmetric Technology: A 2-Wire Low-band Symmetric Loop ("2-Wire LS Capable Loop") is a loop that supports the transmission of technology which is consistent with ANSI T1E1.4/99-002 (R4). The PSD #2 Capable Loop supports some operating speeds of technologies used to provision SDSL. The customer's transmission rate over a 2-Wire LS Capable Loop shall not be limited, except as may be required to conform to the power and spectrum parameters set forth in ANSI T1E1.4/99-002 (R4) which is a proposed standard under study. Loop Qualification and optional conditioning as described below are applicable to the 2-Wire LS Capable Loop.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)E. Digital Subscriber Line (xDSL) Capable Loop (Cont'd)

(4) (Cont'd)

- (c) PSD #3: 2-Wire Capable Loop - 2-Wire Mid-band Symmetric Technology: A 2-Wire Mid-band Symmetric Loop ("2-Wire MS Capable Loop") is a loop that supports the transmission of technology which is consistent with ANSI T1E1.4/99-002 (R4). The 2-Wire MS Capable Loop supports various 2-Wire HDSL technologies and some operating speeds of non-standard technologies used to provision SDSL. The customer shall use 2-Wire MS Capable Loops in a manner that is consistent with ANSI T1E1.4/99-002 (R4). The customer's transmission rate over a 2-Wire MS Capable Loop shall not be limited, except as may be required to conform to the power and spectrum parameters set forth in ANSI T1E1.4/99-002 (R4) which is a proposed standard under study. Loop Qualification and optional conditioning as described below are applicable to the 2-Wire MS Capable Loop.
- (d) PSD #3: 4-Wire Capable Loop - 4-Wire Mid-band Symmetric Technology: A 4-Wire Mid-band Symmetric Loop ("4-Wire MS Capable Loop") is a loop that supports the transmission of technology which is consistent with ANSI 9T1E1.4/99-002 (R4) which is a proposed standard under study. The 4-Wire MS Capable Loop supports various 4-Wire HDSL technologies and some operating speeds of non-standard technologies used to provision SDSL. The customer's transmission rate over a 4-Wire MS Capable Loop shall not be limited, except as may be required to conform to the power and spectrum parameters set forth in the ANSI standard referenced. Loop Qualification and optional conditioning as described below are applicable to the 4-Wire MS Capable Loop.
- (e) PSD #4 Capable Loop - 2-Wire High-band Symmetric Technology: A 2-Wire High-band Symmetric Loop ("2-Wire HS Capable Loop") is a loop that supports the transmission of technology which is consistent with ANSI T1E1.4/99-002 (R4) which is a proposed standard under study. The 2 - Wire HS Capable Loop supports 2-wire HDSL2 technologies. The customer shall use the PSD #4 -2-wire HS Capable Loop in a manner consistent with ANSI T1E1.4/99-002 (R4), which is a proposed standard under study. The customer's transmission rate over a 2-Wire HS Capable Loop shall not be limited, except as may be required to conform to the power and spectrum parameters set forth in the ANSI standard referenced. Loop Qualification and optional conditioning as described below are applicable to the 2-Wire HS Capable Loop.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)E. Digital Subscriber Line (xDSL) Capable Loop (Cont'd)

(4) (Cont'd)

- (f) PSD #5 Capable Loop - 2-Wire ADSL Loop: A 2-Wire ADSL Capable Loop ("ADSL Capable Loop") is a loop that supports the transmission of Asymmetrical Digital Subscriber Line technologies, which comply with current national standards (ANSI T1.413-1998). Although the current national standard provides for the use of echo cancellation in some situations, ANSI T1E1.4 has determined that echo canceled ADSL systems interfere with other echo canceled and non-echo canceled systems, thus reducing the reach of the DSL services. Therefore, echo-cancellation will not be deployed on the 2-Wire ADSL Capable Loop. The customer's transmission rate over an ADSL Capable Loop shall not be limited, except as may be required in order to conform with the power and spectrum parameters set forth in ANSI T1.413-1998. Loop Qualification and optional conditioning as described below are applicable to the PSD #5 - 2-Wire ADSL Capable Loop.
- (g) PSD #7 Capable Loop - 2-Wire Short Reach Very High-band Symmetric Technology: A 2-Wire Short Reach Very High-band Symmetric Loop (2-Wire SRVHS Capable Loop) is a loop that supports the transmission of technology which is consistent with ANSI T1E1.4/99-002 (R4). The 2 - Wire SRVHS Capable Loop supports 2-wire SDSL technologies operating above 784kbps. The customer shall use the PSD #7 - 2-wire SRVHS Capable Loop in a manner consistent with ANSI T1E1.4/99-002 (R4), which is a proposed standard under study. The customer's transmission rate over a 2-Wire SRVHS Capable Loop shall not be limited, except as may be required to conform to the reach, power and spectrum parameters set forth in the ANSI standard referenced. Loop Qualification and optional conditioning as described below are applicable to the 2-Wire SRVHS Capable Loop.
- (h) PSD #8 Capable loop - 2- Wire SDLS Short Reach High Band Symmetric Technology: A 2- Wire SDLS Short Reach High Band Symmetric Loop (2-Wire SRHB Capable loop) is a loop that supports the transmission of technology which is consistent with ANSI T1.417, a proposed standard under study. The customer shall use the PSD #8 2 Wire SRHB loop in a manner consistent with ANSI T1.417. The customer's transmission rate over a 2-Wire SRHB Capable Loop shall not be limited, except as may be required to conform to the reach, power and spectrum parameters set forth in the referenced ANSI standard. Loop Qualification and optional conditioning as described below are applicable to the 2-Wire SRHB Capable Loop.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)E. Digital Subscriber Line (xDSL) Capable Loop (Cont'd)

(4) (Cont'd)

- (i) New Industry Standard DSL-capable loops: If a recognized industry standards body (such as ANSI) adopts other final national standard xDSL technologies (PSD) which is not set forth above, the customer may deploy technologies meeting such standards, including the, speed, power and spectrum management limitations set forth in such standards. Customer will inform the Telephone Company of the PSD of the technology it is deploying.
- (j) Other DSL-capable loops: In addition to the above, a customer may deploy any xDSL technology which has been approved by the FCC or any United States state utility commission, or any technology which can be shown to have been successfully deployed in any United States Public Switched Telephone Network without significantly degrading the performance of other services in that network. Such deployment shall be in accordance with the standards (i) adopted by the FCC or state utility commission with respect to such technology, or (ii) the standards to which such technology has been successfully deployed in another network. The customer shall inform the Telephone Company of the technology it is deploying and the standard to which it is deploying such technology.

(5) Loop Qualification

- (a) Loop Qualification is the process used in conjunction with the provisioning of a DSL Capable Loop of assessing the loop for qualification to provide xDSL services and evaluating the necessary conditioning needed on such loop. IDSL Capable Loops (PSD #1) will not require this step, as they will be designed and offered under the 2-Wire Digital Loop (BRI-ISDN) ¹ offering. The Loop Qualification process examines the available loop facility for suitability for use in terms of physical characteristics and spectrum compatibility based upon the conditions set forth in national industry standards. Additionally, in Loop Qualification, Telephone Company provides information to the customer regarding available loop make-up, as well as the availability of loops to a particular location. Available loop make-up will include areas such as loop length, gauges, bridge taps, load coils, repeaters, pair gain, DAMLS, and if there are other disturbers. (C)

¹ BRI-ISDN is grandfathered and limited to existing customers at existing locations as of March 28, 2022. Moves, additions or changes will not be permitted. (N)
(N)

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)E. Digital Subscriber Line (xDSL) Capable Loop (Cont'd)(5) Loop Qualification

- (b) When multiple loops are requested at the same end user address, the Telephone Company will perform Loop Qualification on each loop until it is determined that no suitable loops remain. The customer shall pay the rate for each Loop Qualification performed by the Telephone Company, whether or not the loop is deemed to support the desired technology. Additionally, when Loop Qualification is performed for multiple loops at the same end user address, the customer shall pay the rate for each Loop Qualification performed by the Telephone Company for all loops that qualify and the first loop which does not.
- (c) From the information provided, the customer may determine whether or not to order loop conditioning on the loop.
- (d) If the results of the Loop Qualification indicate that the loop meets the Technical Parameters without additional conditioning, the customer will be notified and provided loop make-up data.
- (e) If the results of the Loop Qualification indicate that the loop does not meet the Technical Parameters, but will do so with optional loop conditioning, the customer will be notified before commencement of any conditioning work and will be provided loop makeup data. If the customer authorizes the conditioning, charges will apply.
- (f) If the results of the Loop Qualification indicate: (1) that the loop is under 17,500 feet and does not meet the appropriate technical parameters for such loop, but will do so with optional conditioning and the customer elects to order such loop without the recommended conditioning; or (2) that the loop is under 17,500 feet and does not meet the appropriate technical parameters for such loop and will not do so even with optional conditioning and the customer elects to order such loop with or without the conditioning; or (3) that the loop exceeds 17,500 feet and the customer elects to order the loops with or without optional conditioning, the Telephone company will not be responsible for any service-related issues on such loop. The customer will indemnify and hold the Telephone Company harmless from any claims by the customer and/or the customer's end users for any damages arising from the Telephone Company's provision of such loop.

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Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)E. Digital Subscriber Line (xDSL) Capable Loop (Cont'd)(5) Loop Qualification (Cont'd)

- (g) Until mechanized loop qualification is available, a CLEC may elect, as an option, to avoid loop qualification for all DSL Capable Loops of a distance less than 12,000 feet. This option is not available for DSL Capable Loops greater than 12,000 feet. If the CLEC selects this option, the Telephone Company will not apply the loop qualification charges. If the Telephone Company determines at the time of installation that loop conditioning is required, the Telephone Company will notify the CLEC, reschedule the due date (if needed) and waive the loop conditioning charges for the removal of load coils, repeaters and excessive bridged tap. Excessive bridge tap is defined as bridge tap in excess of 2,500 feet in length. However, if a CLEC elects to request loop qualification for all DSL Capable Loops of a distance less than 12,000 feet all appropriate charges will apply subject to the previous subparagraphs in section 18.2.1(D) (2) (a) - (f).
- (h) Mechanized loop qualification includes data that is available electronically and provided via an electronic system. Electronic access to loop make-up data through the Operations Support Systems (OSS) enhancements will return information in all fields described in the Telephone Company's Plan of Record (POR) when such information is contained in the electronic databases.
- (i) Manual loop qualification requires the manual look-up of data that is not contained in an electronic database. Manual loop make-up data includes the following: (1) the actual loop length; (2) the length by gauge; (3) the presence of repeaters, load coils, bridged taps, and if noted on the individual loop record, (4) the total length of bridged taps; (5) the presence of pair gain devices, DLC, and/or Digital Added Main Line (DAML), and (6) the presence of disturbers in the same and/or adjacent binder groups. A CLEC will be billed a manual loop qualification charge for each manual loop qualification.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)

18.2.1 Local Loop Elements (Cont'd)

E. Digital Subscriber Line (xDSL) Capable Loop (Cont'd)

(5) Loop Qualification (Cont'd)

(j) Loop qualification is subject to the following:

1. If load coils, repeaters, or excessive bridged tap are present on a loop under 12,000 feet in length, conditioning to remove these elements will be performed without request and at no charge to the CLEC.
2. If the CLEC elects to have the Telephone Company provide loop make-up through a manual process for information not available electronically, then the loop qualification interval will be 3 to 5 business days, or the interval provided to the Telephone Company's affiliate, whichever is less.
3. If the results of the loop qualification indicate that conditioning is available, the CLEC may request that the Telephone Company perform conditioning at charges specified in this tariff for loop conditioning. The CLEC may order the loop without conditioning or with partial conditioning if desired.
4. For the High Frequency Portion of the Loop (HFPL), if a CLEC's requested conditioning would degrade the customer's analog voice service, the Telephone Company is not required to condition the loop. However, should the Telephone Company refuse the CLEC's request to condition a loop, the Telephone Company will make an affirmative showing to the Department that conditioning the specific loop in question will significantly degrade voice band services.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)E. Digital Subscriber Line (xDSL) Capable Loop (Cont'd)(6) Loop Conditioning

Loop conditioning is the process that may be used in conjunction with loop qualification for the provisioning of DSL Capable Loops. After receipt of loop make-up data, it is the customer's option to request loop conditioning. Also, IDSL Capable Loops will not require this step, as they will be designed and offered under the 2-Wire Digital Loop (BRI-ISDN) ¹ offering.

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Loop conditioning includes the necessary work in the outside plant needed to provide a facility that will allow for the transmission of high-speed digital signals. This work may include multiple load coil, repeater, and bridged tap removal. These three options are provided at the CLECs' request and the CLECs are billed a one-time non-recurring charge unique to the conditioning option requested. For loops in excess of 17,500 feet, incremental charges may be applicable, in addition to the standard conditioning charges. For loop conditioning, CLECs will be charged a basic initial non-recurring charge and for conditioning performed in excess of 17,500 feet; the CLEC will be charged the basic initial non-recurring charge and a non-recurring charge for each additional conditioning element removed. For loops under 12,000 feet in length, the following conditioning will be performed at no charge: the removal of load coils, repeaters and/or excessive bridged taps. Excessive bridged tap is defined as bridged tap in excess of 2,500 feet.

xDSL Loop Conditioning in excess of 17,500 feet:

- (a) Removal of up to (3) load coils included in basic initial rate; removal of each additional element will incur an additional charge.
- (b) Removal of up to (2) occurrences of bridged tap included in basic initial rate; removal of each additional element will incur an additional charge.
- (c) Removal of (1) repeater included in basic initial rate; removal of each additional element will incur an additional charge.

¹ BRI-ISDN is grandfathered and limited to existing customers at existing locations as of March 28, 2022. Moves, additions or changes will not be permitted.

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Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)F. High Frequency Portion of the Loop (HFPL) *

If a CLEC chooses to introduce a technology approved or successfully deployed elsewhere, the CLEC will provide documentation describing that action to the Telephone Company and the Department before or at the time of its request to deploy such technology within the Telephone Company's network. The documentation should include the date of approval or deployment, any limitations included in its deployment, and a sworn attestation that the deployment did not significantly degrade the performance of other services.

If a CLEC chooses to introduce a technology that does not conform to existing industry standards and has not been approved by an industry standards body, the CLEC must demonstrate that its proposed deployment meets the threshold for a presumption of acceptability and will not, in fact, significantly degrade the performance of other advanced services or traditional voice band services.

(1) HFPL is provided subject to the following:

- (a) xDSL technologies on the HFPL may only utilize the higher frequency ranges, preserving a "buffer zone" to ensure the integrity of voice band traffic.
- (b) When the Telephone Company's traditional retail POTS is disconnected, the Telephone Company will notify the CLEC that the POTS service will be disconnected. CLEC's xDSL service will be disconnected within three days unless the CLEC submits an order for a full stand-alone xDSL loop within that time frame.
- (c) The Telephone Company is not required to provide multi-carrier or multi-service line sharing arrangements.
- (d) If a CLEC's requested conditioning would degrade a customer's analog voice service, the Telephone Company is not required to condition the loop. However, should the Telephone Company refuse the CLEC's request to condition a loop, the Telephone Company will affirm that conditioning the specific loop in question will significantly degrade voice band services. Sections 18.2.1E(5) and 18.2.1E(6) address loop conditioning and loop qualification.

*In offering these tariffed provisions, the Telco does not waive and expressly reserves all of its rights, remedies and arguments with respect to any federal or state regulatory, legislative or judicial action(s), including, without limitation, the D.C. Circuit's decision in *USTA, et al. v. FCC*, 290 F.3d 415 (D.C. Cir. 2002) ("*USTA I*"), and following remand and appeal, *USTA v. FCC*, Case No. 00-1012 (D.C. Cir. 2004), issued on March 2, 2004 ("*USTA II*"), and the FCC's Triennial Review Order, released on August 21, 2003, In the Matter of Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, CC Docket No. 01-338, Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98, Deployment of Wireline Services Offering Advanced Telecommunications Capability, CC Docket No. 98-147 (FCC 03-36), and any other relevant government actions which have not yet been fully incorporated into these tariffs or which may be the subject of further government review including, but not limited to, the Telco's intervening law rights and any legal or equitable rights of review and remedies (including agency reconsideration and court review) (collectively "Government Actions"). Accordingly, the Telco reserves the right to withdraw, revise or otherwise modify its tariffs consistent with the Government Actions.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)F. High Frequency Portion of the Loop (HFPL) (Cont'd) *

(2) The HFPL will be maintained as follows:

- (a) If the narrowband, or voice, portion of the loop becomes significantly degraded due to the broadband or high frequency portion of the loop, certain procedures will be followed to restore the narrowband, or voice service. Should only the narrowband or voice service be reported as significantly degraded or out of service, the Telephone Company will repair the narrowband portion of the loop without disturbing the broadband portion of the loop if possible. In any case, the Telephone Company will attempt to notify the end user and the CLEC any time the Telephone Company's repair effort has the potential of affecting service on the broadband portion of the loop. The Telephone Company may proceed with repair of the voice circuit if unable to reach the CLEC or end user after a reasonable attempt has been made. When connected facility assignment or additional point of termination (CFA/APOT) change is requested due to trouble, the pair change will be completed during the standard repair interval.
- (b) The Telephone Company will offer a 24-hour clearing time, excluding weekends and holidays, or parity with the repair intervals the Telephone Company provides its advanced services affiliates, whichever is less, for trouble reports on the HFPL only referred by CLEC where the voice service has not been impacted, if such trouble has been isolated to the Telephone Company's Central Office. If the end user is not satisfied with the repair interval provided by the CLEC, the CLEC will allow the end user the option of restoring POTS.

* In offering these tariffed provisions, the Telco does not waive and expressly reserves all of its rights, remedies and arguments with respect to any federal or state regulatory, legislative or judicial action(s), including, without limitation, the D.C. Circuit's decision in *USTA, et al. v. FCC*, 290 F.3d 415 (D.C. Cir. 2002) ("USTA I"), and following remand and appeal, *USTA v. FCC*, Case No. 00-1012 (D.C. Cir. 2004), issued on March 2, 2004 ("USTA II"), and the FCC's Triennial Review Order, released on August 21, 2003, In the Matter of Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, CC Docket No. 01-338, Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98, Deployment of Wireline Services Offering Advanced Telecommunications Capability, CC Docket No. 98-147 (FCC 03-36), and any other relevant government actions which have not yet been fully incorporated into these tariffs or which may be the subject of further government review including, but not limited to, the Telco's intervening law rights and any legal or equitable rights of review and remedies (including agency reconsideration and court review) (collectively "Government Actions"). Accordingly, the Telco reserves the right to withdraw, revise or otherwise modify its tariffs consistent with the Government Actions.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)F. High Frequency Portion of the Loop (HFPL) (Cont'd)*

(2) The HFPL will be maintained as follows: (Cont'd)

(b) (Cont'd)

If the end user chooses to have the POTS service restored until the HFPL problem can be corrected and notifies either the CLEC or the Telephone Company, (or if the CLEC has failed to restore service within 24 hours), either party will notify the other and provide contact names prior to the Telephone Company "cutting-around" the POTS Splitter/DSLAM equipment to restore POTS. When the CLEC resolves the trouble condition in its equipment, the CLEC will contact the Telephone Company to restore the HFPL portion of the loop. In the event the trouble is identified and corrected in the CLEC equipment, the Telephone Company will charge the CLEC for the work it performed as specified in Section 6.6, of this tariff, Maintenance of Service Charge.

(c) Any CLEC testing of retail POTS must be non-intrusive unless utilizing Mechanized Loop Testing (MLT). Prior to a CLEC utilizing the MLT intrusive test scripts, the CLEC must have established data service on that loop and have specifically informed the customer that service testing will interrupt both the data and voice telephone services served by that line. A CLEC may not perform intrusive testing without having first obtained the express permission of the end-user customer and the name of the person providing such permission. A CLEC shall make a note on the applicable screen space of the name of the end-user customer providing permission for such testing before initializing an MLT test or so note such information on the CLEC's trouble documentation for non-mechanized tests.

* In offering these tariffed provisions, the Telco does not waive and expressly reserves all of its rights, remedies and arguments with respect to any federal or state regulatory, legislative or judicial action(s), including, without limitation, the D.C. Circuit's decision in USTA, et al. v. FCC, 290 F.3d 415 (D.C. Cir. 2002) ("USTA I"), and following remand and appeal, USTA v. FCC, Case No. 00-1012 (D.C. Cir. 2004), issued on March 2, 2004 ("USTA II"), and the FCC's Triennial Review Order, released on August 21, 2003, In the Matter of Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, CC Docket No. 01-338, Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98, Deployment of Wireline Services Offering Advanced Telecommunications Capability, CC Docket No. 98-147 (FCC 03-36), and any other relevant government actions which have not yet been fully incorporated into these tariffs or which may be the subject of further government review including, but not limited to, the Telco's intervening law rights and any legal or equitable rights of review and remedies (including agency reconsideration and court review) (collectively "Government Actions"). Accordingly, the Telco reserves the right to withdraw, revise or otherwise modify its tariffs consistent with the Government Actions.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)

18.2.1 Local Loop Elements (Cont'd)

F. High Frequency Portion of the Loop (HFPL) (Cont'd)*

(2) The HFPL will be maintained as follows: (Cont'd)

- (d) By conducting intrusive tests, the CLEC assumes any and all liability for any such intrusive testing it performs, including the payment of all costs associated with any damage, service interruption, or other telecommunications service degradation or damage to the Telephone Company's facilities and agrees to release, defend and indemnify the Telephone Company and hold the Telephone Company harmless, from any claims for loss or damage, including but not limited to direct, indirect or consequential damages, made against the Telephone Company by an end-user customer, any telecommunications service provider or telecommunications user relating to such testing by the CLEC.
- (e) The CLEC shall not rearrange or modify retail POTS within its equipment in any way without coordinating with the Telephone Company.
- (f) The Telephone Company will provision HFPL on copper based facilities within a 3 business day interval where no conditioning is required.

* In offering these tariffed provisions, the Telco does not waive and expressly reserves all of its rights, remedies and arguments with respect to any federal or state regulatory, legislative or judicial action(s), including, without limitation, the D.C. Circuit's decision in USTA, et al. v. FCC, 290 F.3d 415 (D.C. Cir. 2002) ("USTA I"), and following remand and appeal, USTA v. FCC, Case No. 00-1012 (D.C. Cir. 2004), issued on March 2, 2004 ("USTA II"), and the FCC's Triennial Review Order, released on August 21, 2003, In the Matter of Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, CC Docket No. 01-338, Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98, Deployment of Wireline Services Offering Advanced Telecommunications Capability, CC Docket No. 98-147 (FCC 03-36), and any other relevant government actions which have not yet been fully incorporated into these tariffs or which may be the subject of further government review including, but not limited to, the Telco's intervening law rights and any legal or equitable rights of review and remedies (including agency reconsideration and court review) (collectively "Government Actions"). Accordingly, the Telco reserves the right to withdraw, revise or otherwise modify its tariffs consistent with the Government Actions.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)F. High Frequency Portion of the Loop (HFPL) (Cont'd)*

(3) Grandfathering of Existing Line Sharing (HFPL) Arrangements:

The Telco will continue to provide access to the HFPL to the CLEC where, prior to October 2, 2003, that CLEC began providing xDSL service to a particular end-user customer and has not ceased providing DSL service to that customer at that particular location ("Grandfathered End-User"). Such access to the HFPL shall be at the same monthly recurring rate that was in effect between the Telco and the CLEC for that HFPL on October 2, 2003, and shall continue until the earlier of:

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The CLEC's XDSL service to the Grandfathered End User is disconnected for whatever reason;

-or-

The FCC issues its Order in its Biennial Review Proceeding or any other relevant government action modifies the FCC's HFPL grandfather clause requirements established by the FCC in its Triennial Review Order and implementation rules.

* In offering these tariffed provisions, the Telco does not waive and expressly reserves all of its rights, remedies and arguments with respect to any federal or state regulatory, legislative or judicial action(s), including, without limitation, the D.C. Circuit's decision in *USTA, et al. v. FCC*, 290 F.3d 415 (D.C. Cir. 2002) ("USTA I"), and following remand and appeal, *USTA v. FCC*, Case No. 00-1012 (D.C. Cir. 2004), issued on March 2, 2004 ("USTA II"), and the FCC's Triennial Review Order, released on August 21, 2003, In the Matter of Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, CC Docket No. 01-338, Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98, Deployment of Wireline Services Offering Advanced Telecommunications Capability, CC Docket No. 98-147 (FCC 03-36), and any other relevant government actions which have not yet been fully incorporated into these tariffs or which may be the subject of further government review including, but not limited to, the Telco's intervening law rights and any legal or equitable rights of review and remedies (including agency reconsideration and court review) (collectively "Government Actions"). Accordingly, the Telco reserves the right to withdraw, revise or otherwise modify its tariffs consistent with the Government Actions.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)F. High Frequency Portion of the Loop (HFPL) (Cont'd)*

(4) "New" Line Sharing Arrangements

The Telco will provide CLEC with access to the HFPL between October 2, 2003 and October 2, 2006, where the CLEC begins/began providing xDSL service to a particular end-user customer on or after October 2, 2003 and before October 3, 2004 ("New End-Users"). On and after October 3, 2004, the Telco shall have no obligation to provision, and the CLEC shall not submit any orders for, the HFPL to serve any new end-user customers.

With respect to any New End-User(s) that CLEC began/begins to provide xDSL service over the HFPL on or after October 2, 2003 and before October 3, 2004, the following monthly recurring rates shall apply to such HFPL:

Year 1: For the period from October 2, 2003 until October 2, 2004, the CLEC may continue to obtain New End-Users through the use of the HFPL at 25 percent (25%) of the 2-wire xDSL Loop monthly recurring rate that was in effect prior to October 2, 2003 for that particular location.

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Year 2: For the period from October 3, 2004 until October 2, 2005, the monthly recurring charge for the HFPL for those New End-Users which CLEC began providing xDSL-based service to over the HFPL in Year 1, and for which CLEC continues to provide xDSL-based service at that same location in Year 2, shall increase to 50 percent (50%) of the 2-wire xDSL Loop monthly recurring rate that was in effect on October 2, 2003 for that particular location.

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* In offering these tariffed provisions, the Telco does not waive and expressly reserves all of its rights, remedies and arguments with respect to any federal or state regulatory, legislative or judicial action(s), including, without limitation, the D.C. Circuit's decision in *USTA, et al. v. FCC*, 290 F.3d 415 (D.C. Cir. 2002) ("USTA I"), and following remand and appeal, *USTA v. FCC*, Case No. 00-1012 (D.C. Cir. 2004), issued on March 2, 2004 ("USTA II"), and the FCC's Triennial Review Order, released on August 21, 2003, In the Matter of Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, CC Docket No. 01-338, Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98, Deployment of Wireline Services Offering Advanced Telecommunications Capability, CC Docket No. 98-147 (FCC 03-36), and any other relevant government actions which have not yet been fully incorporated into these tariffs or which may be the subject of further government review including, but not limited to, the Telco's intervening law rights and any legal or equitable rights of review and remedies (including agency reconsideration and court review) (collectively "Government Actions"). Accordingly, the Telco reserves the right to withdraw, revise or otherwise modify its tariffs consistent with the Government Actions.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)F. High Frequency Portion of the Loop (HFPL) (Cont'd)*

(4) "New" Line Sharing Arrangements (Cont'd)

Year 3: For the period from October 3, 2005 until October 2, 2006, the monthly recurring charge for the HFPL for those New End-Users which the CLEC began providing xDSL-based service to over the HFPL at a certain location in Year 1, and for which CLEC continues to provide xDSL-based service at that same location in Years 2 and 3, shall increase to 75 percent (75%) of the 2-wire xDSL Loop monthly recurring rate that was in effect on October 2, 2003 for that particular location.

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(D)

Beginning October 2, 2006, the Telco shall have no obligation to continue to provide the HFPL for CLEC to provide xDSL-based service to any New End-user(s) that CLEC began providing xDSL-based service to over the HFPL during Year 1 of the Transition Period. Rather, effective October 2, 2006, CLEC must provide xDSL-based service to any such New End-User(s) and any other new end-users via a line splitting arrangement, over a stand-alone xDSL Loop purchased from the Telco, or through an alternate arrangement, if any, that the Parties may negotiate.

* In offering these tariffed provisions, the Telco does not waive and expressly reserves all of its rights, remedies and arguments with respect to any federal or state regulatory, legislative or judicial action(s), including, without limitation, the D.C. Circuit's decision in *USTA, et al. v. FCC*, 290 F.3d 415 (D.C. Cir. 2002) ("USTA I"), and following remand and appeal, *USTA v. FCC*, Case No. 00-1012 (D.C. Cir. 2004), issued on March 2, 2004 ("USTA II"), and the FCC's Triennial Review Order, released on August 21, 2003, In the Matter of Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, CC Docket No. 01-338, Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98, Deployment of Wireline Services Offering Advanced Telecommunications Capability, CC Docket No. 98-147 (FCC 03-36), and any other relevant government actions which have not yet been fully incorporated into these tariffs or which may be the subject of further government review including, but not limited to, the Telco's intervening law rights and any legal or equitable rights of review and remedies (including agency reconsideration and court review) (collectively "Government Actions"). Accordingly, the Telco reserves the right to withdraw, revise or otherwise modify its tariffs consistent with the Government Actions.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)

G. Splitter Ownership and Responsibilities

A Splitter is a device that divides the data and voice signals concurrently moving across the loop. It directs the voice traffic through copper tie cables to the switch and the data traffic through another pair of copper tie cables to multiplexing equipment for delivery to the packet-switched network. A splitter may be directly integrated into the Digital Subscriber Line Access Multiplexer (DSLAM) equipment or externally mounted. Splitter ownership and responsibilities are as follows:

Option 1 - CLEC Ownership of Splitter Equipment

- (a) When virtually collocated, the Telephone Company will install, provision and maintain splitters under the terms of virtual collocation. When physically collocated, splitters will be placed in traditional collocation areas as outlined in the physical collocation terms and conditions of the tariff. In this arrangement, the CLEC will have test access to the line side of the splitter when recommended that the CLEC provision splitter cards that provide test port capabilities. When virtually collocated, the Telephone Company will install the splitter in a Telephone Company bay and the Telephone Company will access the splitter on behalf of the CLEC for line continuity tests. The Telephone Company and the CLEC may negotiate additional testing capabilities (including remote testing).
- (b) Splitter provisioning will use standard Telephone Company configuration cabling and wiring at Telephone Company locations. In situations where the CLEC owns the splitter, the splitter dataport and DSLAM will be hardwired to each other. Connecting Block layouts will reflect standard recognizable arrangements that will work with the Telephone Company's Operating Support Systems.
- (c) Splitter technology must adhere to established industry standards for technical, test access, common size, configurations and shelf arrangements.
- (d) All splitter equipment must be compliant with applicable national standards and NEBS Level 1.
- (e) A CLEC may only deploy xDSL technologies on the splitter that do not interfere with analog voice band transmission. The CLEC will provide the Telephone Company with the type of technology it seeks to deploy, at the time of ordering, including the PSD of the technology the CLEC will deploy. If the technology the CLEC wishes to deploy does not have a PSD mask, the CLEC shall provide the Telephone Company with a technical description of the technology (including power mask) for inventory purposes.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)H. xDSL-Capable Subloops

Where xDSL-Capable Loop facilities or the HFPL are not available between the end user customer's premises, a CLEC may request access to xDSL-Capable Subloops subject to the following:

- (1) Where spare copper facilities are available and the facilities meet the necessary technical requirements for the provisioning of DSL, the CLEC has the option of requesting the Telephone Company to make copper facilities available by either of the following:
 - (a) The CLEC has the option of collocating a DSLAM in the Telephone Company's Remote Terminal ("RT") at the fiber/copper interface point, pursuant to collocation terms and conditions. When the CLEC collocates its DSLAM at the Telephone Company's RT, the Telephone Company will provide the CLEC with unbundled access to subloops to allow the CLEC access to the copper wire portion of the loop.
 - (b) Where the CLEC is unable to obtain spare copper loops necessary to provision a DSL service, and the Telephone Company has placed a DSLAM in the RT, the Telephone Company will unbundle and provide access to its DSLAM. The Telephone Company is not required to unbundle its DSLAM if it permits the CLEC to collocate its DSLAM in the RT on the same terms and conditions that apply to its own DSLAM.

I. Provisioning of xDSL-Capable Loops, xDSL-Capable Subloops and the HFPL

The Telephone Company does not warrant that the local loop(s), xDSL-Capable Subloop or the HFPL ordered will perform as desired by a CLEC for xDSL-based, HFPL, or other advanced services, but will guarantee basic metallic loop parameters, including continuity and pair balance. CLEC-requested testing by the Telephone Company beyond these parameters will be billed in accordance with Section 6.7.2 of this Tariff. On loops where CLECs have requested that no conditioning be performed, the Telephone Company's maintenance will be limited to verifying loop suitability based on POTS design.

A CLEC must designate what loop conditioning the Telephone Company is to perform in provisioning the xDSL loop(s), and/or the HFPL. Conditioning may be ordered on loop(s), and/or the HFPL of any length. The loop, and/or HFPL will be provisioned to meet the basic metallic and electrical characteristics such as electrical conductivity and capacitive and resistive balance. The provisioning intervals are applicable to every xDSL loop and the HFPL regardless of the loop length.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)J. Cooperative Testing Billing

The CLEC will be billed for the time of the various technicians performing the Cooperative Testing for loops that are installed correctly within the committed interval without the benefit of corrective action due to acceptance testing in accordance with Section 6.7.2 of this Tariff. The technicians' time will be billed on a minimum of one-half hour. The Telephone Company will not bill for the Cooperative Testing for loop installs that did not pass the test parameters. The Telephone Company will not bill for loop repairs when the repair resulted from the Telephone Company's error or omission.

Maintenance, other than assuring loop continuity and balance on unconditioned or partially conditioned loops greater than 12,000 feet, will only be provided in accordance with Section 6.7.2 of this Tariff. On loops where the CLEC has requested recommended conditioning not be performed, the Telephone Company's maintenance will be limited to verifying loop suitability for POTS. For loops having had partial or extensive conditioning performed at the CLEC's request, the Telephone Company will verify continuity, the completion of all requested conditioning, and will repair at no charge to the CLEC any gross defects which would be unacceptable for POTS and which do not result from the loop's modified design.

K. Liability

Notwithstanding any other provisions of this Section, each Party, whether a CLEC or Company, agrees that should any non-standard xDSL technologies to be deployed or used in connection with or on the Company facilities, the Party ("Indemnifying Party") will pay all costs associated with any damage, service interruption or other telecommunications service degradation, or damage to the other Party's ("Indemnitee") facilities. Notwithstanding any other provision of this section, each Indemnifying Party shall release, defend and indemnify the Indemnitee and hold Indemnitee harmless against any loss or claim made by the Indemnifying Party's end user arising out of the negligence or willful misconduct of the Indemnitee, its agents, its end users, contractors, or others retained by such Party, in connection with Indemnitee's provision of splitter functionality under this Section.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)K. Liability (Cont'd)

For any technology, CLEC's use of any Company network element, or its own equipment or facilities in conjunction with any Company network element, will not materially interfere with or impair service over any facilities of the Company, its affiliated companies or connecting and concurring carriers involved in the Company services, cause damage to the Company's plant, impair the privacy of a communications carried over the Company's facilities or create hazards to employees or the public. Upon reasonable written notice and after a reasonable opportunity to cure, the Company may discontinue or refuse service if CLEC violates this provision, provided that such termination of service will be limited to CLEC's use of the element(s) causing the violation. Subject to 2.6(B) for HFPL, the Company will not disconnect the elements causing the violation if, after receipt of written notice and opportunity to cure, the CLEC demonstrates that its use of the network element is not the cause of the network harm. Any claims of network harm by the Company must be supported with specific and verifiable supporting information.

L. Indemnification

Covered Claim: Indemnifying Party will indemnify, defend and hold harmless Indemnitee from any claim for damages, including but not limited to direct, indirect or consequential damages, made against indemnitee by any telecommunications service provider or telecommunications user (other than claims for damages or other losses made an end-user of Indemnitee for which Indemnitee has sole responsibility and liability) arising from the use of such non-standard xDSL technologies by the Indemnifying Party, or Indemnifying Party's provision of splitter functionality under this tariff or Indemnifying Party's (i.e., CLEC's) retention of the loop used to provide the HFPL when the end user terminates voice service from Indemnitee (i.e., the Company) and Indemnitee is requested by another telecommunications provider to provide a voice grade service or facility to the end user.

Indemnifying Party is permitted to fully control the defense or settlement of any Covered Claim, including the selection of defense counsel. Notwithstanding the foregoing, Indemnifying Party will consult with Indemnitee on the selection of defense counsel and consider any applicable conflicts of interest.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)L. Indemnification (Cont'd)

Indemnifying Party is required to assume all costs of the defense and any damages resulting from the use of any non-standard xDSL technologies in connection with or on Indemnitee's facilities or indemnifying Party's provision of splitter functionality under this Section, or the Indemnifying Party's (i.e., CLEC's) retention of the loop used to provide the HFPL when the end user terminates voice service from Indemnitee (i.e., the Company) and Indemnitee is requested by another telecommunications provider to provide a voice grade service or facility to the end user, and Indemnitee will bear no financial or legal responsibility whatsoever arising from such claims.

Indemnitee agrees to fully cooperate with the defense of any Covered Claim. Indemnitee will provide written notice to Indemnifying Party of any Covered Claim at the address for notice assigned herein within ten days of receipt, and, in the case of receipt of service of process, will deliver such process to Indemnifying Party not; later than 10 business days prior to the date for response to the process. Indemnitee will provide to Indemnifying Party reasonable access to or copies of any relevant physical and electronic documents or records related to the deployment of non-standard xDSL technologies used by Indemnitee in the area affected by the claim, or Indemnifying Party's provision of splitter functionality under this Section, all other documents or records determined to be discoverable, and all other relevant documents or records that defense counsel may reasonably request in preparation and defense of the Covered Claim. Indemnitee will further cooperate with Indemnifying Party's investigation and defense of the Covered Claim by responding to the reasonable requests to make its employees with knowledge relevant to the Covered Claim available as witnesses for preparation and participation in discovery and trial during regular weekday business hours. Indemnitee will promptly notify Indemnifying Party of any settlement communications, offers or proposals received from claimants.

Indemnitee agrees that Indemnifying Party will have no indemnity obligation under J above, and Indemnitee will reimburse Indemnifying Party's defense costs, in any case in which Indemnifying Party's technology is determined not to be the cause of any Indemnitee liability and in any case in which Indemnifying Party's provision of splitter functionality under this Section is determined not to be the cause of any Indemnitee liability.

Claims Not Covered: No Party hereunder agrees to indemnify or defend any other Party against claims based on the other party's gross negligence or intentional misconduct.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)M. Reservation of Rights

The Parties acknowledge and agree that the provision of these DSL-Capable loops and the HFPL and associated rates, terms and conditions set forth herein are subject to any legal or equitable rights of review and remedies (including agency reconsideration and court review). If any reconsideration, agency order, appeal, court order or opinion, stay, injunction or other action by any state or federal regulatory body or court of competent jurisdiction stays, modified, or otherwise affects any of the rates, terms and conditions herein, specifically including those arising with respect to Federal Communications Commission orders whether from the Memorandum Opinion and Order, and Notice of Proposed Rulemaking, FCC 98-188 (rel. August 7, 1998), in CC Docket No. 98-147; the FCC's First Report and Order and Further Notice of Proposed Rulemaking, FCC 99-48 (rel. March 31, 1999), in CC Docket 98-147; the FCC's Third Report and Order and Fourth Notice of Proposed Rulemaking in CC Docket No. 96-98 (FCC 99-238) (rel. November 5, 1999), including the FCC's Supplemental Order issued in *In the Matter of the Local Competition Provisions of the Telecommunications Act of 1996*, in CC Docket 96-98 (FCC 99-370) (rel. November 24, 1999) ("the UNE Remand Order"); or the FCC's 99-355 Third Report and Order in CC Docket No. 98-147 and Fourth Report and Order in CC Docket No. 96-98 (rel. December 9, 1999), or any other proceeding, this section shall be revised accordingly.

Effective August 30, 2021 UNE DS3 loop orders will no longer be accepted in competitive counties published at: <https://www.fcc.gov/bds-competitive-and-noncompetitive-lists> (or relevant successor site). Effective February 8, 2024, existing UNE DS3 loops will be sunset and will no longer be offered under the tariff. Customers must contact Frontier for an alternative commercial agreement.

(N)

(N)

(M)

(M)

(N)

N. Dark Fiber relocated to Page 18.42.1.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-42.1

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)

18.2.1 Local Loop Elements (Cont'd)

N. Dark Fiber +

Dark fiber is spare fiber that has not been activated through connection to the electronics that "light it", and thereby rendering it capable of carrying communication services. Spare dark fiber is fiber that is spliced in all segments, point to point, but not assigned. Dark fiber Interoffice Transport is a segment between two Telephone Company central offices.

Dark Fiber offers CLECs the ability to provide local telephone exchange service. Dark fiber is not permitted to be used for displacing the Telephone Company's existing tariffed access services except to the extent required by law.

The Telephone Company will inventory and track spare dark fiber. Defective fiber will be subtracted from the spare fiber inventory. All available fiber will be offered as is. "As is" is defined as dark fiber that meets the Telephone Company's standard quality tests. Dark fiber leased to the CLECs will be of the same quality that the Telephone Company itself uses. No conditioning will be offered. Spare fibers do not include maintenance spares, fibers reserved on Planning Estimates for the Telephone Company's forecasted growth, defective fibers, or non-working fibers reserved for other carriers covered in lease agreements. CLECs may request the excess dark fiber capacity contained in a particular interoffice transport segment on a first-come first-served basis.

+ As of March 11, 2005, the effective date of the Order on Remand, *Unbundled Access to Network Elements; Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, WC Docket No. 04-313; CC Docket No. 01-338, Released February 4, 2005 ("TRO Remand Order"), CLECs may not obtain and the Telco is not required to provide access to Dark Fiber Loops and, under certain circumstances, Dark Fiber Transport. Embedded base Dark Fiber Loop and Dark Fiber subloop end user customers must be transitioned during the 18 month transition period, ending September 11, 2006, as outlined in the TRO Remand Order. The Telco will not accept orders for Dark Fiber Transport in excess of the caps established in the TRO Remand Order or in service areas served by wire centers meeting the criteria set forth in the TRO Remand Order. Embedded base Dark Fiber Transport end user customers must be transitioned during the 18 month transition period (ending September 11, 2006) outlined in the TRO Remand Order.

N. Dark Fiber relocated from Page 18.42 and 18.43.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)N. Dark Fiber + (Cont'd)

Effective August 30, 2021, UNE dark fiber transport orders will no longer be accepted under the tariff for routes in which both the "to" and "from" wire centers are on the list published at:

<https://www.fcc.gov/elli-code-list> (or relevant successor site).

Effective February 8, 2029, UNE dark fiber transport circuits that were ordered prior to August 30, 2021 and are on routes in which both the "to" and "from" wire centers are on the list published at:

<https://www.fcc.gov/elli-code-list> (or relevant successor site), will no longer be available under the tariff. Please contact Frontier for potential alternative commercial arrangements. UNE dark fiber transport orders will continue to be accepted under the tariff only for routes in which either the "to" or "from" wire centers (or both) are not on the list published at: <https://www.fcc.gov/elli-code-list>.

The Telephone Company will offer the following rate elements as described below:

1. Description of Rate Elements(a) Dark Fiber Interoffice Transport (IOT)

The Telephone Company will provide dark fiber in the dedicated interoffice transport segment of the network as an unbundled network element. Dark Fiber IOT is between two different Telephone Company central offices and terminates on a fiber distribution frame, or equivalent, in the central office. The Telephone Company will offer its dark fiber to a CLEC when that CLEC has collocation space in both central offices where the fibers terminate.

+ As of March 11, 2005, the effective date of the Order on Remand, *Unbundled Access to Network Elements; Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, WC Docket No. 04-313; CC Docket No. 01-338, Released February 4, 2005 ("TRO Remand Order"), CLECs may not obtain and the Telco is not required to provide access to Dark Fiber Loops and, under certain circumstances, Dark Fiber Transport. Embedded base Dark Fiber Loop and Dark Fiber subloop end user customers must be transitioned during the 18 month transition period, ending September 11, 2006, as outlined in the TRO Remand Order. The Telco will not accept orders for Dark Fiber Transport in excess of the caps established in the TRO Remand Order or in service areas served by wire centers meeting the criteria set forth in the TRO Remand Order. Embedded base Dark Fiber Transport end user customers must be transitioned during the 18 month transition period (ending September 11, 2006) outlined in the TRO Remand Order.

N. Dark Fiber relocated to Page 18.42.1.

(M)

(M)

(N)

(N)

(N)

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)N. Dark Fiber + (Cont'd)1. Description of Rate Elements (Cont'd)(c) Dark Fiber Inquiries

A CLEC will submit to the Telephone Company a dark fiber facility inquiry that provides the CLEC's specific point-to-point dark fiber requirements. The Telephone Company will evaluate the request and indicate dark fiber availability accordingly within 10 business days of receipt of the CLEC's written inquiry. However, no fiber will be reserved until actual orders are placed by the CLEC.

(d) Dark Fiber Cross Connect IOT

Fiber jumpers or cross-connects will be installed by the Telephone Company from the assigned optical splitter shelves to the CLEC's collocation space, "meet-me bay" or equivalent meet point. There are two cross-connects, one for the loop and another for interoffice arrangements.

2. Ordering

Upon completion of the Dark Fiber Inquiry, if the Telephone Company determines that dark fiber is available, the CLEC may place Access Service Requests (ASRs) for ordering. Dark Fiber will be assigned to the CLEC when the ASR is processed.

The minimum number of fiber strands that can be ordered is two. All dark fiber must be ordered in multiples of two.

3. Demarcation Points

Newly placed demarcation points at central offices, will be in a Telephone Company approved splitter shelf. This arrangement allows for non-intrusive testing. The Telephone Company will install demarcations and place fiber jumpers from the fiber optic termination panel to the demarcation point. The CLEC will run its fiber jumpers from the demarcation point (1 x 2, 90-10 optical splitter) to the CLEC's splitter.

+ As of March 11, 2005, the effective date of the Order on Remand, *Unbundled Access to Network Elements; Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, WC Docket No. 04-313; CC Docket No. 01-338, Released February 4, 2005 ("TRO Remand Order"), CLECs may not obtain and the Telco is not required to provide access to Dark Fiber Loops and, under certain circumstances, Dark Fiber Transport. Embedded base Dark Fiber Loop and Dark Fiber subloop end user customers must be transitioned during the 18 month transition period, ending September 11, 2006, as outlined in the TRO Remand Order. The Telco will not accept orders for Dark Fiber Transport in excess of the caps established in the TRO Remand Order or in service areas served by wire centers meeting the criteria set forth in the TRO Remand Order. Embedded base Dark Fiber Transport end user customers must be transitioned during the 18 month transition period (ending September 11, 2006) outlined in the TRO Remand Order.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)N. Dark Fiber + (Cont'd)4. Revocations

The Telephone Company reserves the right to revoke a CLEC's right to use the dark fiber upon twelve (12) months' written notice. To exercise this right, the Telephone Company must demonstrate that the dark fiber is needed to meet the Telephone Company's bandwidth requirements within the next 12 months.

Additionally, should a CLEC not utilize the fiber strands within the 12-month period from the date of order, the Telephone Company reserves the right to regain those fiber facilities in the Telephone Company inventory. The Telephone Company may invoke this right after the 12 month interval in which the fiber is not being utilized by the CLEC. If the Telephone Company invokes this right, then the disconnection charge will be waived.

O. Sub-LoopsGeneral

An unbundled sub-loop is a portion of the loop that can be accessed at specific terminals in the Telephone Company's outside plant. An accessible terminal is a point on the loop where technicians can access the wire or fiber within the cable without removing a splice case to reach the wire or fiber within.

Accessible Terminals include a technically feasible point such as:

- (a) Serving Area Interface (SAI) /Feeder Distribution Interface-(FDI)
- (b) Terminal (TERM)
- (c) Network Interface Device (NID)
- (d) Remote Terminal (RT)
- (e) Engineering Controlled Splice (ECS)

+ As of March 11, 2005, the effective date of the Order on Remand, *Unbundled Access to Network Elements; Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, WC Docket No. 04-313; CC Docket No. 01-338, Released February 4, 2005 ("TRO Remand Order"), CLECs may not obtain and the Telco is not required to provide access to Dark Fiber Loops and, under certain circumstances, Dark Fiber Transport. Embedded base Dark Fiber Loop and Dark Fiber subloop end user customers must be transitioned during the 18 month transition period, ending September 11, 2006, as outlined in the TRO Remand Order. The Telco will not accept orders for Dark Fiber Transport in excess of the caps established in the TRO Remand Order or in service areas served by wire centers meeting the criteria set forth in the TRO Remand Order. Embedded base Dark Fiber Transport end user customers must be transitioned during the 18 month transition period (ending September 11, 2006) outlined in the TRO Remand Order.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)O. Sub-Loops (Cont'd)General (Cont'd)

The Telephone Company will provide a CLEC the capability to purchase sub-loops and interconnect at locations in the loop network where facilities are both technically feasible and also available. The Telephone Company is not required to build additional space, build a new serving area interface or construct new sub-loop facilities including new distribution facilities in a sub-division.

Service Description - The following sub-loops are available to a CLEC for use in the provisioning of a telecommunications service as specified and to the extent required by the Telecommunications Act of 1996:

(D)
(D)

xDSL Sub-Loop - any distribution portion of a copper xDSL Loop that is comprised entirely of copper wire or copper cable, that acts as a transmission facility between any distribution point of technically feasible access in the Telco's outside plant and the demarcation point at an end user premise. A technically feasible point of access for purposes of an xDSL sub-loop is a point in the distribution portion of an xDSL Loop where a Telco technician can access the copper at a terminal in the Telco's outside plant.

ISDN Sub-Loop - is a digital facility capable of supporting 160kps, Basic Rate ISDN (BRI) ¹ service.

DS1 Sub-Loop + - provides a transmission path capable of supporting a 1.544Mps service that utilizes AMI or B8ZS line code modulation.

+ As of March 11, 2005, the effective date of the Order on Remand, *Unbundled Access to Network Elements; Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, WC Docket No. 04-313; CC Docket No. 01-338, Released February 4, 2005 ("TRO Remand Order"), CLECs may not obtain and the Telco is not required to provide access to DS1 Loops on an unbundled basis under certain circumstances. The Telco will not accept orders for DS1 Loops in excess of the caps established in the TRO Remand Order or in service areas served by wire centers meeting the criteria set forth in the TRO Remand Order. Embedded base DS1 Loop end user customers must be transitioned to an alternative service arrangement within the 12 month transition period (ending March 11, 2006) outlined in the TRO Remand Order. Accordingly, the Telco extends the findings of the TRO Remand Order on DS1 loops to the associated DS1 subloop offerings.

¹ BRI-ISDN is grandfathered and limited to existing customers at existing locations as of March 28, 2022. Moves, additions or changes will not be permitted.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.1 Local Loop Elements (Cont'd)O. Sub-Loops (Cont'd)Regulations

Prior to submitting a sub-loop service order, a CLEC will be required to establish a collocation arrangement or a sub-loop interconnection arrangement depending upon the sub-loop type and where the circuit originates and terminates. A collocation arrangement and/or associated Connecting Facility Arrangement (CFA) will be required for sub-loops. Establishing interconnection arrangement(s) may involve some construction work activities; however, it will not involve new desert-start type construction.

Sub-loops will be provided in accordance with the Telephone Company's technical specifications, interfaces, and parameters. The Telephone Company's facilities or equipment can be used for any particular purpose to provide sub-loops in accordance with such specifications, interfaces, and parameters. The Telephone Company is not required to warrant that its sub-loops are compatible with a CLEC's specific service. A CLEC ordering sub-loops is responsible for obtaining or providing facilities and equipment that are compatible with such sub-loops.

The Telephone Company will provide a single point of interconnection ("SPOI") so that CLECs may obtain access to subloops at multi-unit premises.+ The SPOI is available on an individual case basis due to the recognized uniqueness of its construction and depending upon the type of location a CLEC wishes to access.

+ As of March 11, 2005, the effective date of the Order on Remand, *Unbundled Access to Network Elements; Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, WC Docket No. 04-313; CC Docket No. 01-338, Released February 4, 2005 ("TRO Remand Order"), CLECs may not obtain and the Telco is not required to provide access to DS1 Loops on an unbundled basis under certain circumstances. The Telco will not accept orders for DS1 Loops in excess of the caps established in the TRO Remand Order or in service areas served by wire centers meeting the criteria set forth in the TRO Remand Order. Embedded base DS1 Loop end user customers must be transitioned to an alternative service arrangement within the 12 month transition period (ending March 11, 2006) outlined in the TRO Remand Order. Accordingly, the Telco extends the findings of the TRO Remand Order on DS1 loops to the associated DS1 subloop offerings.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.2 Interconnection of Unbundled Network Elements

Loop service will be interconnected with the customer's physically collocated space, provided under Expanded Interconnection*, at the interface level of the unbundled network element. This required physical connection and rate element is designated as a Crossconnect Termination.

Interconnection arrangement options include Inter-Wire Center Transport and multiplexing prior to connection to the collocated space. These options are described in Sections 18.2.3.1 and 18.2.3.2, and illustrated in 18.2.3.3 Figures A through F.

18.2.2.1 Central Office Multiplexing +, ++

A customer has the option of ordering interconnection arrangements for loop services, which include multiplexing before hand-off to a collocated space. Multiplexing options include DS3 to DS1. When ordering multiplexing, the customer must specify the desired multiplexing location(s), as set forth in the National Exchange Carrier Association Tariff FCC No. 4.

A. Derived Channel Activation

Channels derived from multiplexing a higher capacity service may be utilized to provide end-to-end services. The customer activates and/or extends the derived channels by placing an order which includes the individual connecting facility assignment (CFA) associated with the higher capacity service for each end-to-end service. Such services may be installed initially, or they may be ordered and installed at a later date, at the option of the customer.

+ As of March 11, 2005, the effective date of the Order on Remand, *Unbundled Access to Network Elements; Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, WC Docket No. 04-313; CC Docket No. 01-338, Released February 4, 2005 ("TRO Remand Order"), CLECs may not obtain and the Telco is not required to provide access to DS1/DS3 Unbundled Dedicated Transport under certain circumstances. The Telco will not accept orders for DS1/DS3 Unbundled Dedicated Transport in excess of the caps established in the TRO Remand Order or in service areas served by wire centers meeting the criteria set forth in the TRO Remand Order. Embedded base DS1/DS3 Unbundled Dedicated Transport end user customers must be transitioned to an alternative service arrangement within the 12 month transition period (ending March 11, 2006) outlined in the TRO Remand Order.

++ As of March 11, 2005, the effective date of the Order on Remand, *Unbundled Access to Network Elements; Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, WC Docket No. 04-313; CC Docket No. 01-338, Released February 4, 2005 ("TRO Remand Order"), CLECs may not obtain and the Telco is not required to provide access to DS1 Loops on an unbundled basis under certain circumstances. The Telco will not accept orders for DS1 Loops in excess of the caps established in the TRO Remand Order or in service areas served by wire centers meeting the criteria set forth in the TRO Remand Order. Embedded base DS1 Loop end user customers must be transitioned to an alternative service arrangement within the 12 month transition period (ending March 11, 2006) outlined in the TRO Remand Order.

* Refer to Section 14 of this Tariff for interconnection arrangements and rates associated with Expanded Interconnection.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.2 Interconnection of Unbundled Network Elements (Cont'd)18.2.2.1 Central Office Multiplexing (Cont'd)B. Cascade Multiplexing

When a derived channel is itself multiplexed to derive additional channels with a lesser capacity, this is referred to as cascade multiplexing. When cascading is ordered, a charge for the additional multiplexing function applies. When cascade multiplexing is performed at a different multiplexing location, Inter-Wire Center Transport charges apply between the multiplexing locations.

18.2.2.2 Inter-Wire Center Transport

Inter-Wire Center Transport provides for the transmission facilities between serving wire centers (SWCs) associated with the loop and/or multiplexing services and the location of the customer's collocated space.

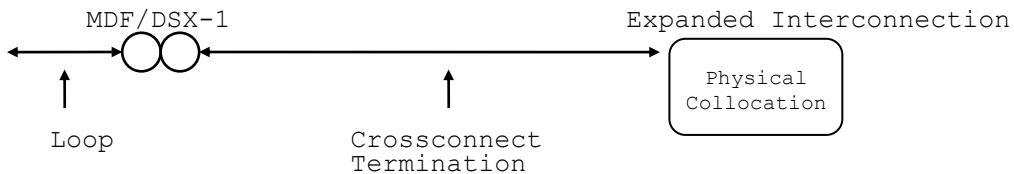
18.2.2.3 Schematics of Interconnection Arrangement for Unbundled Network Elements
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Figure A
Direct VG/ISDN/DS1 Hand-Off At Collocated Location

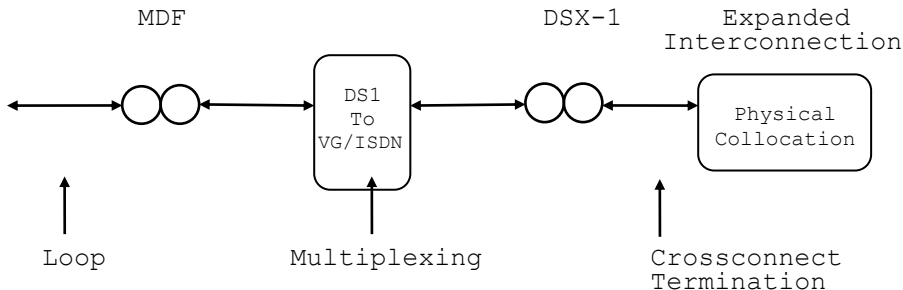


Figure B
Company Provided DS1 Multiplexing At Collocated Location

* Interconnection arrangements must conform to the commingling and loop/transport combination criteria specified in Sections 2.13 and 3.1 of this tariff.

+ As of March 11, 2005, the effective date of the Order on Remand, *Unbundled Access to Network Elements; Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, WC Docket No. 04-313; CC Docket No. 01-338, Released February 4, 2005 ("TRO Remand Order"), CLECs may not obtain and the Telco is not required to provide access to DS1/DS3 Unbundled Dedicated Transport under certain circumstances. The Telco will not accept orders for DS1 Unbundled Dedicated Transport in excess of the caps established in the TRO Remand Order or in service areas served by wire centers meeting the criteria set forth in the TRO Remand Order. Embedded base DS1 Unbundled Dedicated Transport end user customers must be transitioned to an alternative service arrangement within the 12 month transition period (ending March 11, 2006) outlined in the TRO Remand Order.

Section 18 - Local Exchange Access Service

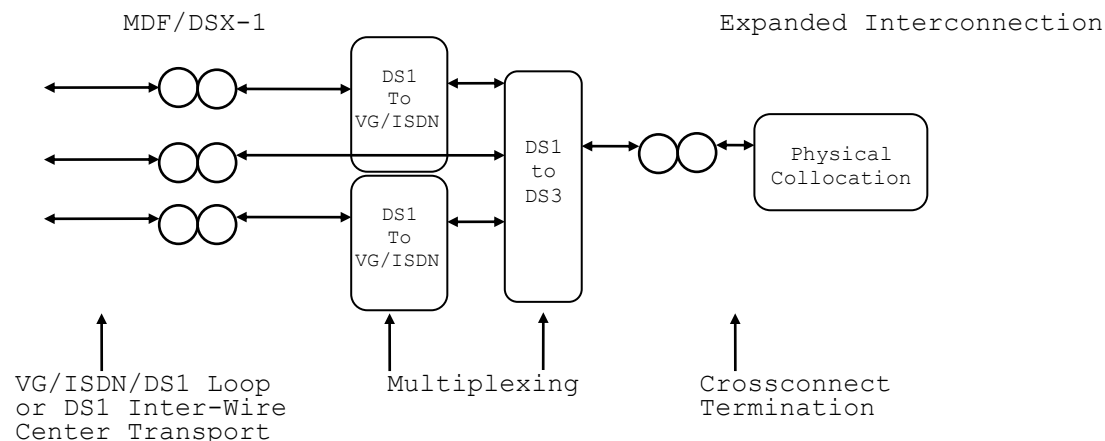
18.2 Unbundled Network Elements (Cont'd)18.2.2 Interconnection of Unbundled Network Elements (Cont'd)18.2.2.3 Schematics of Interconnection Arrangement for Unbundled Network Elements
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Figure C
Company Provided DS1 and DS3 Multiplexing At Collocated Location

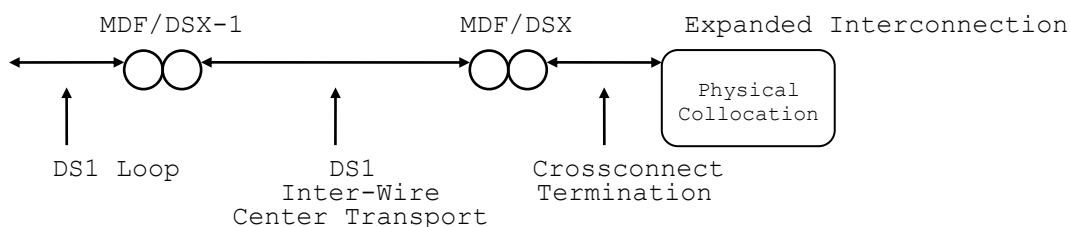


Figure D
Company Provided Inter-Wire Center Transport at The DS1 Interface Level

* Interconnection arrangements must conform to the commingling and loop/transport combination criteria specified in Sections 2.13 and 3.1 of this tariff.

+ - As of March 11, 2005, the effective date of the Order on Remand, *Unbundled Access to Network Elements; Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, WC Docket No. 04-313; CC Docket No. 01-338, Released February 4, 2005 ("TRO Remand Order"), CLECs may not obtain and the Telco is not required to provide access to DS1/DS3 Unbundled Dedicated Transport under certain circumstances. The Telco will not accept orders for DS1/DS3 Unbundled Dedicated Transport in excess of the caps established in the TRO Remand Order or in service areas served by wire centers meeting the criteria set forth in the TRO Remand Order. Embedded base DS1/DS3 Unbundled Dedicated Transport end user customers must be transitioned to an alternative service arrangement within the 12 month transition period (ending March 11, 2006) outlined in the TRO Remand Order.

Section 18 - Local Exchange Access Service

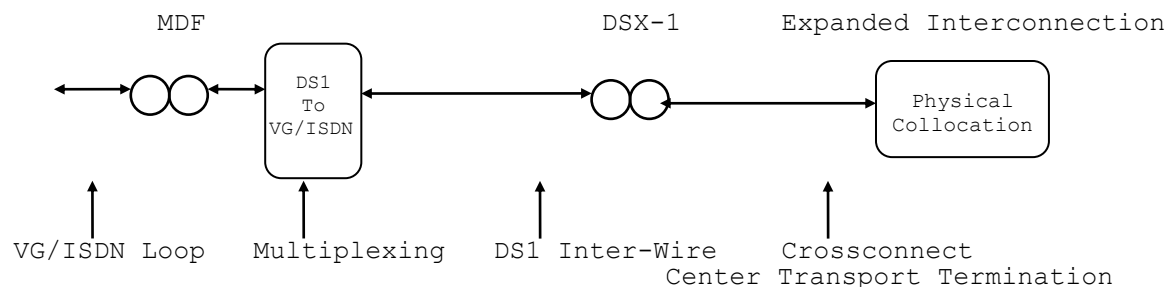
18.2 Unbundled Network Elements (Cont'd)18.2.2 Interconnection of Unbundled Network Elements (Cont'd)18.2.2.3 Schematics for Interconnection Arrangement for Unbundled Network Elements
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Figure E
Company Provided DS1 Multiplexing and Inter-Wire Center Transport

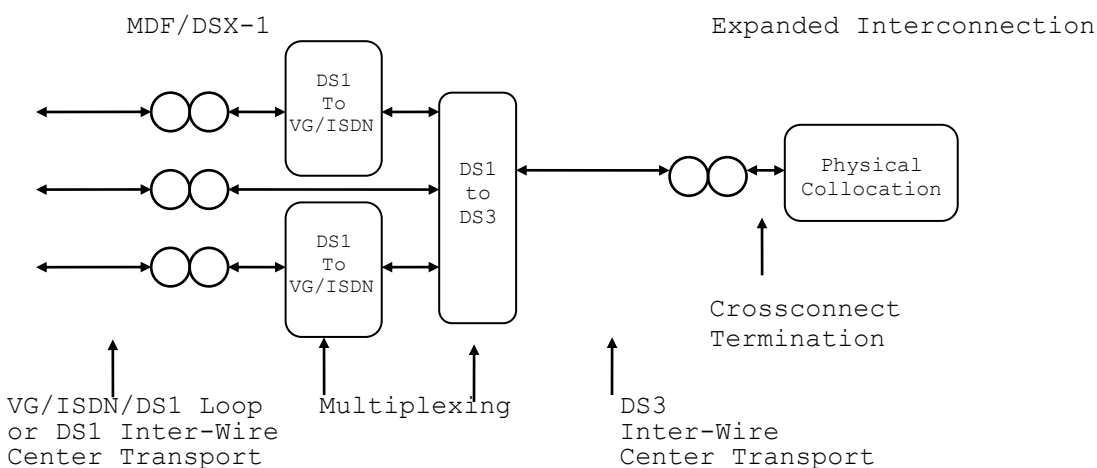


Figure F
Company Provided DS1 and DS3 Multiplexing and DS3 Inter-Wire Center Transport

* Interconnection arrangements must conform to the commingling and loop/transport combination criteria specified in Sections 2.13 and 3.1 of this tariff.

+ As of March 11, 2005, the effective date of the Order on Remand, *Unbundled Access to Network Elements; Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, WC Docket No. 04-313; CC Docket No. 01-338, Released February 4, 2005 ("TRO Remand Order"), CLECs may not obtain and the Telco is not required to provide access to DS1/DS3 Unbundled Dedicated Transport under certain circumstances. The Telco will not accept orders for DS1/DS3 Unbundled Dedicated Transport in excess of the caps established in the TRO Remand Order or in service areas served by wire centers meeting the criteria set forth in the TRO Remand Order. Embedded base DS1/DS3 Unbundled Dedicated Transport end user customers must be transitioned to an alternative service arrangement within the 12 month transition period (ending March 11, 2006) outlined in the TRO Remand Order.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.3 Network Interface Device (NID)A. General

The Network Interface Device (NID) provides, to the customer, access for connection to the end user's inside wire. The NID is defined as any means of interconnection of end-user customer premises wiring to the Telephone Company's distribution loop facilities, and serves as a cross-connect point between the local loop and the end user's inside wire. The Telephone Company NID enclosure contains the electrical protection devices and the grounding connection for the local loop. The Telephone Company offers nondiscriminatory access to the network interface device on an unbundled basis to any requesting telecommunications carrier for the provision of a telecommunications service.

B. Service Description

The NID is available for use by the customer in either of the two following options:

(1) Access to End User Wiring

The customer may terminate its loop in its own NID and gain access to the end user's inside wiring by way of the customer access chamber of the Telephone Company provided NID enclosure, or at any other technically feasible point. Any connection work undertaken in this chamber is the sole responsibility of the customer or its end user.

Where there is no discrete multi-chambered NID enclosure, the customer may connect its loop, via its own NID, to the end user wiring at or adjacent to the point of demarcation.

(2) Access to Spare Capacity of Multi-Chambered NID Enclosure

For the purpose of this offering, the NID is a multi-chambered enclosure, assumed to be existing and installed at the end user's single unit residential home with spare capacity available.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)

18.2.3 Network Interface Device (NID) (Cont'd)

C. Regulations

The customer may terminate its loop to a spare position in the protector chamber of the Telephone Company provided NID enclosure, or at any other technically feasible point. The customer may not remove existing loops, working or not, in order to create spare capacity.

The customer must provide its own UL approved loop protecting device and its own end user interface device (both of which must be compatible to the Keptel model 4600 NID enclosure or equivalent) for installation in the appropriate chamber of the Telephone Company provided NID enclosure. This option provides spare capacity only, and does not include protective devices, interface devices, or connection labor of any kind.

There is a one-time nonrecurring charge for each customer loop directly terminated in the protector chamber of the Telephone Company provided NID enclosure.

Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.4 Interoffice Transmission Facilities (IOTFs) +A. General

Unbundled access to Interoffice Transmission Facilities (IOTF) provide transmission paths between the Telephone Company's Serving Wire Centers (SWCs). IOTFs are dedicated to a particular customer.

The IOTF includes all the features and capabilities of the transmission facility and may be combined with other Unbundled Network Elements (UNEs) by the customer in its collocated space where the IOTF terminates. Information and rates for Collocation can be found in Section 14 of this Tariff. Each IOTF ordered will reflect the charge for the cross connection made to the customer's collocated space.

B. Service Description

The IOTF is offered at various levels. Access to the IOTF is available in the offices where the IOTF terminates.

Each IOTF has defined parameters which will be verified at turn-up by the Telephone Company.

If a customer reports an IOTF as requiring maintenance and it is found to be operating within the Telephone Company's established standards, the customer will be charged for time and material associated with such tests, as outlined in Section 6 (Maintenance of Service Charge) of this Tariff.

Dedicated IOTFs

Dedicated IOTFs are Telephone Company owned transmission facilities between switches owned by the Telephone Company or requesting carrier that are provided for the exclusive use of a particular customer. Both ends of the dedicated IOTF will terminate in the collocated space of the requesting customer, providing transmission paths between the Telephone Company's Serving Wire Centers (SWCs).

Dedicated IOTFs are available in DS1 and DS3 facilities.

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Section 18 - Local Exchange Access Service

18.2 Unbundled Network Elements (Cont'd)18.2.4 Interoffice Transmission Facilities (IOTFs) +B. Service Description (Cont'd)Digital Signal Level 1 (DS1)

The DS1 IOTF is a 4 wire facility which supports the transmission of a single DS1 signal operating at 1.544 Mbps. The interface to this IOTF is the DSX-1 Bay (cross connection point for DS1 signals).

The IOTF may be optioned for Alternate Mark Inversion (AMI) or Bipolar with 8 Zero Substitution (B8ZS) and Super Frame (SF) or Extended Super Frame (ANSI or Non ANSI ESF). Options are limited by the capabilities of the equipment installed in a particular office.

Digital Signal Level 3 (DS3)

The DS3 IOTF supports the transmission of a single electrical DS3 signal operating at 44.736 Mbps. The interface to this facility is the DSX-3 Bay (cross connect point for DS3 signals).

This IOTF will be optioned for B3ZS (Bipolar with 3 Zero Substitution). The signal is M Framed only.

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-56

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-57

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-58

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-59

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-60

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-61

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-62

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-63

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-64

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-65

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-66

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-67

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-68

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-69

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-70

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-71

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-72

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-73

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-74

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-75

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-76

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-77

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-78

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-79

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-80

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-81

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-82

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-83

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-83.1

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-84

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-85

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-86

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-87

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-88

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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(D)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-89

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-90

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-91

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-92

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-93

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-94

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-95

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-96

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company

1st Revised Page 18-97

d/b/a Frontier Communications of Connecticut

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-98

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-99

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-100

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-101

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-102

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-103

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-104

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-104

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-105

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-106

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-107

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-108

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

(T)

(D)

(D)

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-109

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-110

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-111

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-112

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-113

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-114

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-115

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-116

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-117

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-118

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-119

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-120

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-121

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-122

Section 18 - Local Exchange Access Service

18.3 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-123

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-124

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-125

Section 18 - Local Exchange Access Service

18.4 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-126

Section 18 - Local Exchange Access Service

18.4 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-127

Section 18 - Local Exchange Access Service

18.4 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-127

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-128

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-129

Section 18 - Local Exchange Access Service

18.4 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-130

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-131

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-132

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-133

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-134

Section 18 - Local Exchange Access Service

18.4 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-135

Section 18 - Local Exchange Access Service

18.4 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-136

Section 18 - Local Exchange Access Service

18.4 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-137

Section 18 - Local Exchange Access Service

18.4 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-138

Section 18 - Local Exchange Access Service

18.4 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-139

Section 18 - Local Exchange Access Service

18.4 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-140

Section 18 - Local Exchange Access Service

18.4 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-141

Section 18 - Local Exchange Access Service

18.4 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-142

Section 18 - Local Exchange Access Service

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Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements18.5.1 E-911Description of Service for Facilities Based Customers of the Telephone Company

(i.e., loops, ports and interconnection)

- A. The customer's interconnection to the Telephone Company's Enhanced 911 (E-911) network is offered to allow the customer to comply with the Connecticut Gen. Stat. Section 28-25A. It is the requirement of every customer to provide E-911 service to its Connecticut customers. The Telephone Company will provide access to the existing E-911 system as described in General Exchange Tariff Part II, Section 27 for transmission of E-911 calls originating from the customer and its end users to the proper answer points. See Section 28-28a of the Connecticut General Statutes for a description of the Telephone Company's specific responsibilities.
- B. Rates and charges for this service include the initial provisioning of the service, ongoing monthly host access and billing services, updates to the E-911 database for the customer's end user information, manual processing of handicap information and optional downloads of the Master Street Address Guide (MSAG). See Section 18.5.4 of this tariff for the provision of Emergency Service Central Office (ESCO) trunks from the customer's switch to the Telephone Company's E-911 Access Tandem. Separate rates apply for packet user name password and dial-up usage.
- C. Responsibilities of the customer: *
- 1) The customer will input/update Automatic Location Identification (ALI) records into the E-911 database, download errors and download an optional MSAG file via packet 6 days a week (Monday - Saturday) by midnight. Any customer input/update errors discovered by the Telephone Company's error correction programs will be prepared for transmission back to the customer for correction the following morning. Errors are to be corrected by the customer in the next day cycle.
 - 2) The customer will make every reasonable effort to update the ALI database on a daily basis as required by daily order and error activity to ensure the accuracy of all the ALI information, i.e., street address and current status of the service. The data content of any and all records input by the customer is the sole responsibility of the customer. The customer is responsible for all error correction. The Telephone Company will not modify the content of data supplied by the customer.

* When the customer of E-911 interconnection (i.e., the network service provider) is not also the local service provider for an end user, the responsibilities defined 1) through 8) apply to the local service provider of that end user.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)

18.5.1 E-911 (Cont'd)

Description of Service for Facilities Based Customers (Cont'd)

C. Responsibilities of the customer (Cont'd)

- 3) The ALI input record will conform to the Telephone Company's E-911 record data layout. A unique customer code will be assigned to the customer to ensure updates to E-911 end user data can only be made by the customer.
- 4) When number portability is provided to an end user, the customer will input the call forwarded (Ported) number into a designated field of the end user's ALI record.
- 5) When the customer's end user has State of Connecticut required handicap information to be associated with the ALI record, the customer will handle the completed E-911 Handicap form and forward it to the Telephone Company for manual processing.
- 6) An optional MSAG file is available for the customer to download for use in reducing the number of street address errors when loading ALI records.
- 7) It is the responsibility of the customer to bill its end users for the State mandated E-911 surcharge and to remit such monies to the appropriate State Authority.
- 8) Customer data will not be included in Telephone Company reports to State of Connecticut agencies. The customer is responsible for such reporting requirements.

D. Violation of Tariff

In the event that the customer fails to comply with any of the foregoing and such failure is not cured within 7 days of receipt of written notice from the Telephone Company, then the Telephone Company shall have the right, without waiving any other right, to terminate the provision of service hereunder, provided that the Telephone Company shall effect such termination in accordance with Section 16-3-101 et seq of the Regulations of Connecticut State Agencies and/or obtain indemnification from the customer with respect to any and all damages resulting from or arising out of the customer's breach.

E. Liability of the Telephone Company

Refer to Tariffs Part II, Section 27, Sheet 9F.3.i.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.1 E-911 (Cont'd)Description of Service for Non-facilities Based Customers of the Telephone Company (i.e., Wholesale Local Service)

- A. For non-facilities based customers of the Telephone Company, the rates and charges for Wholesale Local Service include E-911 service and input/updates of the ALI records into the E-911 database. When input errors are discovered by the error correction programs, the non-facilities based customer will be notified for their correction in the next day's cycle.
- B. It is the responsibility of the Customer to bill its end users for the State mandated E-911 surcharge and to remit such monies to the appropriate State Authority.

18.5.2 Number Portability18.5.2.1 Service Provider Local Number PortabilityA. General

Service Provider Local Number Portability (SPLNP) is only available to Certified Local Exchange Carriers (customers).

SPLNP is a service arrangement whereby an end user that switches local exchange service subscription from the Telephone Company to a customer is permitted to retain the existing Telephone Company telephone number assigned to the end user for its use, provided that the end user's physical location remains in the operational area (i.e. wire center) of the end user's Telephone Company assigned telephone number.

B. Service Description

SPLNP is a local exchange telecommunications service whereby a call dialed to an SPLNP equipped telephone number is automatically forwarded to a customer assigned telephone number. The forward to telephone number must be within the same geographic operational area as the Telephone Company's telephone number.

SPLNP provides a single call path for the forwarding of one call at a time to the customer assigned telephone number. Additional call paths for the forwarding of multiple calls are available on a per path basis.

SPLNP may be ordered for up to a maximum of 100 lines associated with a single Telephone Company Centralink 2100 or Centralink 3100 service. SPLNP is not available for Telephone Company Centrex III or DCOSS services.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.2 Number Portability (Cont'd)18.5.2.1 Service Provider Local Number Portability (Cont'd)B. Service Description (Cont'd)

The end user calling party is responsible for payment of the applicable charges for sent paid calls to the SPLNP number.

C. Regulations

SPLNP service and facilities will only be provided where technically feasible, subject to the availability of facilities, and will only be furnished from properly equipped central offices. SPLNP is generally available from NXX codes used for message telecommunications services (MTS).

The Telephone Company will only provide SPLNP on an end user telephone number for which an order for removal of existing service has been received. In addition, the end user must be physically located within the operational area (i.e. wire center) of the Telephone Company telephone number for which SPLNP is provided. Only the end user's existing, Telephone Company assigned telephone number(s) is eligible for SPLNP. The Telephone Company will not assign any additional telephone numbers to that end user for SPLNP service. SPLNP is not available for WLS or unbundled ports.

The customer is responsible for coordinating the provision of service with the Telephone Company to ensure that its switch is capable of accepting SPLNP ported traffic. The Telephone Company is not responsible for call blocking due to the customer's inadequate network provisioning for the SPLNP call paths ordered for its end users.

The customer is responsible for loading both the customer assigned telephone number and the Telephone Company ported number into the E-911 database. This information must be coordinated with the due dates of the SPLNP service. Refer to Section 18.5.1 of this Tariff for additional information regarding E-911 service.

The customer is solely responsible to ensure that its facilities, equipment and services associated with SPLNP neither interfere with nor impair any facility, equipment or service of the Telephone Company or any of its end users. In the event that the Telephone Company determines, in its sole judgment, that a customer will likely impair or is impairing or interfering with any equipment, facility or service of the Telephone Company or any of its end users, the Telephone Company may either refuse to provide SPLNP or terminate it in accordance with Section 2.5 of this Tariff.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.2 Number Portability (Cont'd)18.5.2.1 Service Provider Local Number Portability (Cont'd)C. Regulations (Cont'd)

The customer is responsible for disconnecting SPLNP for any telephone number for which it is no longer providing local exchange service. When the customer discontinues SPLNP because the end user no longer chooses to retain its Telephone Company assigned telephone number, the customer is responsible for designating the preferred type of announcement (e.g., reference of calls, not in service) to be provided by the Telephone Company. SPLNP services cannot be resold or shared.

The customer is responsible for all charges associated with SPLNP.

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D. Limitations of Service

The Telephone Company is not responsible for adverse effects on any customer service, facility or equipment from the use of SPLNP.

End to end transmission characteristics may vary based on the distance and routing necessary to complete calls over SPLNP facilities and the fact that another carrier is involved in the provisioning of service. Therefore, end-to-end transmission characteristics for such calls cannot be specified or guaranteed by the Telephone Company.

The Telephone Company is not responsible to the customer if necessary changes in protection criteria or in any of the facilities, operations, or procedures of the Telephone Company render any facilities provided by a customer obsolete or require a customer to modify any equipment.

The number of paths available for forwarding calls per SPLNP number cannot exceed 99. In addition, other technical limitations may apply that further reduce the number of paths available.

Collect, Bill to Third and other non-sent paid services are generally available with SPLNP service.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.2 Number Portability (Cont'd)18.5.2.2 Direct Number to Route Index (DNRI)A. General

Number Portability via Direct Number to Route Index (DNRI) is only available to Certified Local Exchange Carriers (customers).

DNRI is a service arrangement whereby an end user that switches local exchange service subscription from the Telephone Company to a customer is permitted to retain the existing Telephone Company telephone numbers assigned to the end user for its use, provided that the end user's physical location remains in the operational area (i.e. wire center) of the end user's Telephone Company assigned telephone number.

B. Service Description

DNRI is a local exchange telecommunications service whereby a call dialed to a DNRI equipped telephone number is automatically routed to a customer's switch (or the customer's designated switch provider). The Telephone Company will deliver the existing Telephone Company seven/ten digit telephone number to the customer's designated switching equipment via a dedicated trunk group. The customer may translate and terminate the call as desired.

Prior to ordering DNRI service, the customer must establish a dedicated POTS trunk group in accordance with Section 18.5.4.1D of this Tariff, one way incoming to the customer and identified as required for interim number portability, from each Telephone Company end office at which DNRI is to be provided. This trunk group is to be used exclusively for DNRI traffic.

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The customer is responsible for sizing the DNRI trunk group and maintaining adequate capacity to support standard blocking criteria.

C. Regulations

DNRI service and facilities will only be provided where technically feasible, subject to the availability of facilities, and will only be furnished from properly equipped central offices. DNRI is generally available from NXX codes used for terminating message telecommunications services (MTS).

DNRI may be ordered for up to a maximum of 100 lines associated with a single Telephone Company CSF II or CSF III service. DNRI is not available for Telephone Company Centrex III or DCOSS services.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.2 Number Portability (Cont'd)18.5.2.2 Direct Number to Route Index (DNRI) (Cont'd)C. Regulations (Cont'd)

In addition, the end user must be physically located within the operational area (i.e., wire center) of the Telephone Company telephone number for which DNRI is provided. Only the end user's existing, Telephone Company assigned telephone numbers are eligible for DNRI. The Telephone Company will not assign any additional telephone numbers to that end user for DNRI service. DNRI is not available for WLS or unbundled ports.

The customer is responsible for coordinating the provision of service with the Telephone Company to ensure that its switch is capable of accepting DNRI traffic. The Telephone Company is not responsible for call blocking due to the customer's inadequate network provisioning for the DNRI trunk group ordered for its end users.

For telephone numbers other than DID numbers, the customer is responsible for loading both the customer assigned telephone number and the Telephone Company DNRI telephone number into the E-911 database. This information must be coordinated with the due dates of the DNRI service. Refer to Section 18.5.1 of this Tariff for additional information regarding E-911 service. E-911 service is not applicable to DID telephone numbers.

The customer is solely responsible to ensure that its facilities, equipment and services associated with DNRI neither interfere with nor impair any facility, equipment or service of the Telephone Company or any of its end users. In the event that the Telephone Company determines, in its sole judgment, that a customer will likely impair or is impairing or interfering with any equipment, facility or service of the Telephone Company or any of its end users, the Telephone Company may either refuse to provide DNRI or terminate it in accordance with Section 2.5 of this Tariff.

The customer is responsible for disconnecting DNRI for any telephone number for which it is no longer providing local exchange service. When the customer discontinues DNRI because the end user no longer chooses to retain its Telephone Company assigned telephone number, the customer is responsible for designating the preferred type of announcement (e.g., reference of calls, not in service) to be provided by the Telephone Company. DNRI services cannot be resold or shared.

The customer is responsible for all charges associated with DNRI.

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Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)

18.5.2 Number Portability (Cont'd)

18.5.2.2 Direct Number to Route Index (DNRI) (Cont'd)

D. Limitations of Service

The Telephone Company is not responsible for adverse effects on any customer service, facility or equipment from the use of DNRI.

End to end transmission characteristics may vary based on the distance and routing necessary to complete calls over DNRI facilities and the fact that another carrier is involved in the provisioning of service. Therefore, end-to-end transmission characteristics for such calls cannot be specified or guaranteed by the Telephone Company.

The Telephone Company is not responsible to the customer if necessary changes in protection criteria or in any of the facilities, operations, or procedures of the Telephone Company render any facilities provided by a customer obsolete or require a customer to modify any equipment.

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Collect, Bill to Third and other non-sent paid services are generally available with SPLNP service.

18.5.3 Compensation Arrangements - (Reserved for Future Use)

18.5.4 Network Interconnection Trunking

Network Interconnection Trunking provides for the interconnection arrangements associated with message trunks between a customer and the Telephone Company. These trunk arrangements include; Plain Old Telephone Service (POTS), E-911 facilities, and Transit Traffic. In addition to the interconnection arrangements described in this section, co-carrier compensation as defined in Section 18.5.3 preceding may apply.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.4 Network Interconnection Trunking (Cont'd)18.5.4.1 POTS TrunkingA. General

POTS trunking is available to switch facility based customers for their use in furnishing services to their end users or to other local service providers. It provides for the delivery of traffic from a customer's switch to a Telephone Company switch for termination at a Telephone Company local exchange end user, where both the originating and terminating local exchange services bear 203 or 860 NPA-NXX designations.

B. Options

POTS trunking will be provided pursuant to the Decision in Docket No. 94-10-02.

Interconnection options include:

1. Two way
2. One way, upon mutual agreement
3. Tandems and/or end offices or any other mutually agreed upon point

Due to the number of potential configurations available for interconnecting networks for POTS traffic exchange, POTS trunking arrangements will be established on an Individual Case Basis (ICB). An exception to the ICB is when a customer chooses to interconnect with the Telephone Company on a one way basis in a standard configuration. The following Section D describes this arrangement.

C. Call Types

The types of traffic, which may be completed on a POTS interconnection trunk group include:

- a) Local and intrastate toll POTS
- b) Translated Telephone Company 800 *
- c) 900 *
- d) Community information services such as Telephone Company time and weather, State of Connecticut Lottery *

* Note: In order to complete this type of traffic, a separate billing agreement and the exchange of billing records between carriers may be required.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.4 Network Interconnection Trunking (Cont'd)18.5.4.1 POTS Trunking (Cont'd)C. Call Types (Cont'd)

The types of traffic, which may not be completed on a POTS interconnection trunk group include:

- a) Traffic which does not originate at a local exchange end user within the State of Connecticut (203/860 NPA-NXX designation) and terminate at a Telephone Company local exchange end user (i.e., transit traffic)
- b) Telephone Company/Customer Directory Assistance (411/NPA 555-1212)
- c) Telephone Company Operator handled (0+ & 0-)

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- d) E-911, 611, 811

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- e) Non-translated 8XX and non-Telephone Company 8XX

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D. One Way POTS InterconnectionThe Telephone Company Switch Connections

The customer may request interconnection at the Telephone Company access tandems and/or end offices. A tandem interconnection provides for the completion of calls to those Telephone Company end offices and NXXs, which subtend the specific tandem. (Note: The customer must identify the specific tandem(s) for interconnection. Telephone Company inter-tandem switching is not provided.) An end office interconnection provides for the completion of calls to those NXXs, which reside in the specific end office. Where end office functionality is provided in a remote end office of a host/remote configuration, the interconnection for that remote end office is only available at the host switch.

Trunk Side Arrangement

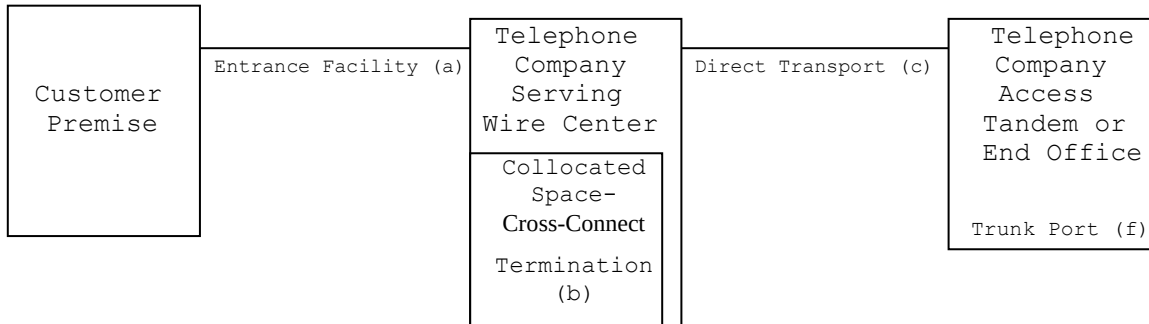
Trunk side arrangement describes the general parameters associated with the POTS trunking interconnection. These parameters include the following:

- a) Interface Level - DS1
- b) Signaling - Signaling System 7 (SS7)
- c) Protocol - TR 317

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.4 Network Interconnection Trunking (Cont'd)18.5.4.1 POTS Trunking (Cont'd)D. One Way POTS Interconnection (Cont'd)Interconnection Elements

One way POTS interconnection can be provided in accordance with several arrangements, each requiring different rate elements, depending on the customer's preferred method of interconnection. As shown in the following diagram, the rate elements for physical interconnection include: (a) entrance facility or (b) cross-connect termination; (c) direct transport; (d) multiplexing (optional); and (e) per trunk; and (f) trunk port.



- (a) Entrance Facility - Provides for a DS1 or DS3 transmission path between the customer's premises and the Telephone Company serving wire center (SWC). This element is provided even if the customer's premises and the SWC are located in the same building. This is a flat-rated element.
- (b) Cross-connect Termination - Provides for a DS1 or DS3 transmission path between a customer's physically collocated space provided under the Expanded Interconnection Tariff. This element would be in lieu of the Entrance Facility. This is a flat rated element. (See Section 14 of this Tariff for applicable rates associated with the DS1 or DS3 Cross-connect Termination.)
- (c) Direct Transport - Provides for a DS1 or DS3 transmission path between the Telephone Company SWC and the tandem or end office at which the customer requests interconnection. This is a mileage sensitive rate based upon the V-H coordinates of the SWC and the Access Tandem or End Office associated with the interconnected switch.
- (d) Multiplexing - Provides for DS3 to DS1 or DS1 to voice grade multiplexing.
- (e) Per Trunk Addition - Provides for each equivalent voice grade channel requested by the customer to be activated.
- (f) Trunk Port - Provides for the trunk termination at an Access Tandem or End Office. The trunk port is flat rated based on the trunk type (Tandem or End Office) switch type, (i.e., Analog or Digital) and the number of trunks.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.4 Network Interconnection Trunking (Cont'd)18.5.4.1 POTS Trunking (Cont'd)E. Network Management

The Telephone Company will administer its network to ensure acceptable service levels to all users of the Telephone Company's network services. Service levels are generally considered acceptable only when end users are able to establish connections with little or no delay encountered within the Telephone Company network. The Telephone Company maintains the right to apply protective controls, i.e., call gapping, to selectively cancel the completion of traffic carried over its network, including traffic associated with a customer's service. Such protective measures would generally be taken only as a result of occurrences such as failure or overload of the Telephone Company's network, natural disasters, mass calling or national security demands.

18.5.4.2 Emergency Service Central Office (ESCO) TrunksA. General

ESCO trunking is available to switch facility based customers for their use in furnishing local exchange services to their end users or to other local service providers. It provides for the completion of emergency (E-911) traffic which is originated by a customer's local exchange end user and terminates at the appropriate Public Service Answer Point (PSAP) using the Telephone Company deployed E-911 network. In addition to ESCO trunking, other components necessary for the overall provisioning of E-911 service are defined in Section 18.5.1.

When a customer orders ESCO trunking, it is the customer's responsibility to ensure that (1) sufficient services have been ordered to handle its traffic, (2) that the appropriate E-911 tandem(s) have been selected for end user location and correct PSAP, and (3) all Government requirements associated with E-911 are met, e.g., route diversity, and number of trunks between the end office and the Telephone Company E-911 tandems.

B. E-911 Tandem Connections

The customer must request interconnection at the appropriate Telephone Company E-911 tandems. The Telephone Company E-911 tandems are associated with serving areas, which include the end user locations and corresponding municipal PSAP for that end user. Each PSAP is only served by one Telephone Company E-911 tandem and inter-tandem switching is not provided.

Section 18 - Local Exchange Access Service

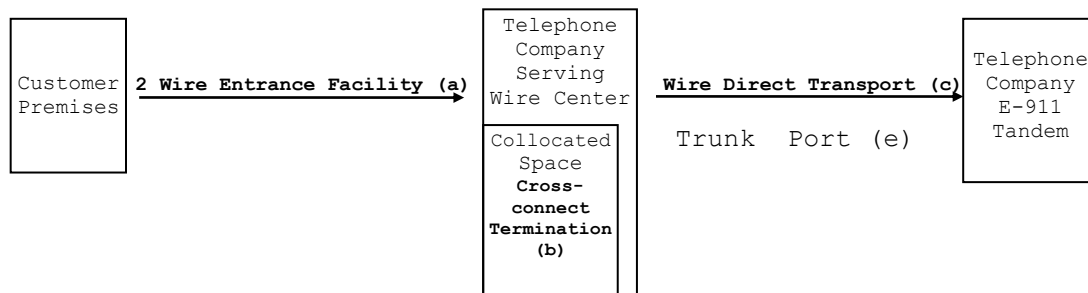
18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.4 Network Interconnection Trunking (Cont'd)18.5.4.2 Emergency Service Central Office (ESCO) Trunks (Cont'd)C. Trunk Side Arrangement

Trunk side arrangement describes the general parameters associated with the ESCO trunking interconnection, these parameters include the following:

- a) Direction - One way incoming which permits the delivery of emergency calls from the customer to the appropriate PSAP through a Telephone Company E-911 tandem.
- b) Interface Level - 2 wire voice grade (NC= SDUD, NCI= 02RV3-O)
- c) Signaling - Multi-Frequency (MF)
- d) Protocol - wink start, incoming CAMA trunk type
- e) Usage - Flat rated, i.e., no usage for billing purposes

D. Interconnection Elements

ESCO interconnection is a trunk side connection and can be provided in accordance with several arrangements, each requiring different rate elements depending, on the customer's preferred method of interconnection. As shown in the following diagram, the rate elements for physical interconnection include: (a) entrance facility or (b) cross-connect termination; (c) direct transport and (d) transport diversity surcharge; (e) E-911 trunk port; (f) multiplexing (optional); and (g) per trunk. (N)



- (a) Entrance Facility - Provides for a 2 wire voice grade, DS1, or DS3 transmission path between the customer's premises and the Telephone Company serving wire center (SWC). This element is provided even if the customer's premises and the SWC are located in the same building. This is a flat rated element.

Note: In order to meet the State of Connecticut requirement for diversity, when a customer chooses to use this element for all interconnections to the Telephone Company SWC for a specific end office, the rate element(s) will be provided on an ICB.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.4 Network Interconnection Trunking (Cont'd)18.5.4.2 Emergency Service Central Office (ESCO) Trunks (Cont'd)D. Interconnection Elements (Cont'd)

- (b) Cross-connect Termination - Provides for a 2 wire, DS1, or DS3 transmission path between a customer's physically collocated space provided under the Expanded Interconnection Tariff. This element would be in lieu of the Entrance Facility. This is a flat rated element. (See Section 14 of this Tariff for applicable rates associated with the 2 wire Cross-connect Termination.)
- (c) Direct Transport - Provides for a 2 wire voice grade, DS1, or DS3 transmission path between the Telephone Company SWC and the E-911 tandem at which the customer requests interconnection. This is a mileage sensitive rate based upon the V-H coordinates of the SWC and the central office associated with the E-911 tandem.
- (d) Transport Diversity Surcharge - Provides for geographic route diversity of the direct transport facilities when the E-911 tandem is not located within the SWC. This is a required rate element for each trunk when both trunks (of a pair) require direct transport as described above. This is a mileage sensitive rate based upon the V-H coordinates of the SWC and the central office associated with the E-911 tandem.
- (e) E-911 Trunk Port - Provides for a 2 wire voice grade interface to the E-911 tandem. This is a flat rated element.
- (f) Multiplexing - Provides for DS3 to DS1 or DS1 to voice grade multiplexing.
- (g) Per Trunk Addition - Provides for each equivalent voice grade channel requested by the customer to be activated.

18.5.4.3 Transit Traffic

Transit traffic defines those calls which do not both (1) originate or terminate at a switch facility based customer's Connecticut local exchange end user, and (2) originate or terminate at a Telephone Company Connecticut local exchange end user. This traffic includes but is not limited to the following:

- a) Customer - Inter Exchange Carrier (IEC)
- b) Customer - Customer
- c) Customer - Other LEC (non Telephone Company)
- d) Customer - Wireless

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.4 Network Interconnection Trunking (Cont'd)18.5.4.3 Transit Traffic (Cont'd)

Arrangements will be provided on an Individual Case Basis (ICB) due to the unique and individual requirements of each customer for trunking associated with transit traffic, the switch connections, trunk side arrangements, and call type. (Note: Interexchange Carrier traffic will be on a "meet point" billing arrangement).

The physical interconnection elements for interconnecting the customer to the Telephone Company are the same as for one way incoming POTS Trunking as described in Section 18.5.4.1D previously. These physical elements include entrance facility, cross-connect termination, direct transport, multi-plexing, per trunk and trunk port.

Transit traffic for Interexchange Carriers (IECs) will be provided on a separate trunk group(s) than the trunk group(s), which provide for customer to customer, customer to Wireless, and customer to other LECs (non-Telephone Company) transit traffic.

18.5.4.4 Common Channel Signaling - Signaling System 7 (SS7)

The Telephone Company Common Channel Signaling network is a packet switched communications network that allows for exchanging signaling and/or other information between processor equipped signaling systems on separate communications paths (out of band) from the voice and data communications. The protocol for Common Channel Signaling is the Consultative Committee for International Telephone and Telegraph (CCITT) and the American National Standards Institute (ANSI) SS7 signaling protocol.

SS7 is the required signaling method for POTS and transit traffic interconnection trunking. This method of signaling will allow for both call set up and interoperability of CLASS features between the Telephone Company and the customer.

SS7 interconnection arrangements between the Telephone Company and the customer will be on an Individual Case Basis (ICB) due to the individual architectures of both the customer and the Telephone Company signaling networks, and the unique requirements of the individual customer parties.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.5 Publishing18.5.5.1 General

The same rules and regulations set forth in the General Exchange Tariff, Part II Section 4, will apply to all listings. The regulations for directory listings in this section apply only to that part of the telephone directory containing the regular alphabetical list of names of end users.

The alphabetical list of names of end users is designed solely for the purpose of informing calling persons of the telephone numbers of end users and those entitled to use end users' service. In recognition of this purpose, the Telephone Company will not knowingly accept or permit the continued appearance in any directory of a fictitious or contrived name. The provision of any form of listing which, in the judgment of the Telephone Company, does not facilitate directory service or is unnecessary for purposes of identification is not permitted. Special arrangement of names designed to secure a preferential position in the alphabetical list, or listings which otherwise are objectionable, are not acceptable.

Customers shall provide information for all listings (including non-published listings) and shall include residence and business designations. Listings must conform to the Telephone Company's specifications for its directories.

The Telephone Company will include the end users' primary listings in the white page (residence and business listings) and yellow page (business listings) directories. The customer can offer primary and additional listings to its end users. The customer must identify its non-published and non-listed residence and business customers for directory purposes.

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The customer shall not willfully misrepresent the classification of any end user's listing as primary.

The liability of the Telephone Company and/or another acting on its behalf for damages arising from errors or omissions in the making up or printing of telephone directories or in the publishing of listings offered in these tariffs as presented by customers shall be limited to the amount of actual impairment of the end user's service and in no event shall it exceed the amount paid for the service during the period covered by the directory in which the error or omission occurs.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.5 Publishing (Cont'd)18.5.5.2 Primary Listings

Each customer's end user will receive one primary listing in regular format (light face, 6.8 point type), in the alphabetical section of the directory, which serves the end user's location for each equivalent single line service (loop, port, interconnection service or Wholesale Local Service). Residence end users receive a single white page listing. Business end users receive a single white and a single yellow page listing.

Only one listing per end user line is considered primary. For Direct Inward Dialing (DID) only the listing of the main number is considered primary. Any other listings associated with these services are considered additional.

18.5.5.3 Additional Listings

The term "additional listing" is a general one and denotes any listing, regardless of form, in addition to the primary listing.

A. Regular Additional Listings1. General

Only such listings are allowed as, in the opinion of the Telephone Company serve a useful directive purpose.

In a Number Portability situation, where the end user has two numbers for each line and chooses to have both numbers listed, the second number will be considered an additional listing.

In connection with residence service, if a dual listing is requested as the primary listing, only one dual listing will be provided as primary. Any additional combinations of names shall be considered additional listings.

2. Business Additional Listings

Business Additional listings may be any of the following: (i) if the end user is a partnership or firm, names of partners or members of the firm; (ii) if the end user is a corporation, names of officers of the corporation; (iii) for any business establishment, names of associates or employees of the end user. Business additional listings also may be the bona fide names of firms or corporations which the end user owns or controls or is duly authorized to represent, or names under which business is regularly conducted.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)

18.5.5 Publishing (Cont'd)

18.5.5.3 Additional Listings (Cont'd)

A. Regular Additional Listings (Cont'd)

3. Residence Additional Listings

Residence additional listings may be the names of members of the end user's family or of persons residing in the end user's household.

Where the end user's name or the names of other persons listed are commonly spelled in more than one way, additional listings of the alternative spellings are permitted.

The owner of a duly licensed amateur radio station may obtain a listing of the station against his residence telephone number at the additional listing rate.

B. Sub-Listings

Sub-listings are listings similar in form to primary listings but are entered, inset from the margin, under other listings to which they are related.

Those sub-listings which are additional listings are provided under the same regulations as apply to regular additional listings, except that the text and form of the listing may be modified by the omission of the name, where repetitive, or by the omission of the address, where unnecessary for directive purposes.

C. Reference Listings

Reference listings are for use in connection with names which are spelled in more than one way, rearrangements of names, changes in firm names, new companies superseding old, abbreviated firm names or nicknames, or names of government departments or agencies whose complete listings appear elsewhere in the alphabetical list of the complete group of listings.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection (Cont'd)18.5.5 Publishing (Cont'd)18.5.5.3 Additional Listings (Cont'd)D. Alternate Listings

Alternate listings refer calling parties to an alternate telephone number either outside of business hours or in case no answer is received at the first listed telephone number.

The alternate number may be the number of either business or residence service of the same end user; the number of service of another end user with whom the applicant for the alternate listing has made suitable arrangements; or, in connection with private branch exchange service, the number of a special listing terminal or of a trunk not in sequence with the index number.

E. Foreign Listings

A foreign listing is a listing entered in the alphabetical list of a secondary directory section, whether in the same or a different directory book. Except where the foreign listing is to appear in the form of an alternate listing, a foreign listing is furnished only where a listing of the same name and telephone number also appears in the directory section primary to the end user's location.

18.5.5.4 Non-Published and Non-Listed ServicesA. Non-Published Service1. General

The telephone numbers of non-published services are not listed in either the Telephone Company's directories or directory assistance records available to the general public.

2. Regulations

Incoming calls to non-published service will be completed by the Telephone Company only when the calling party places the call by number. The Telephone Company will adhere to this practice notwithstanding any claim of emergency the calling party may present. The acceptance by the Telephone Company of the customer's request to refrain from publishing the end user's telephone number in the directory does not create any relationship or obligation, direct or indirect, to any other person than the customer.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection (Cont'd)

18.5.5 Publishing (Cont'd)

18.5.5.4 Non-Published and Non-Listed Services (Cont'd)

A. Non-Published Service (Cont'd)

2. Regulations (Cont'd)

The Telephone Company's liability, if any, for its gross negligence or willful misconduct or the right of the customer or end user to seek any legal remedy available for the same is not limited by this tariff. In the absence of gross negligence or willful misconduct with respect to any claim or suit brought by, or other legal remedies available to, the customer, end user or others for damages associated with publishing the telephone number of non-published service in the directory or disclosing said number to any person, the Telephone Company's liability, if any, shall not exceed the monthly charges which the Telephone Company may have made for such unpublished service for the period during which the service was affected.

The customer indemnifies and saves the Telephone Company harmless against any and all claims for damages caused or claims to have been caused, directly or indirectly, by the publication of the number of non-published service or the disclosing of said number to any person.

B. Non-Listed Service

1. General

The telephone numbers of non-listed services are not listed in the Telephone Company's directories but are included in directory assistance records available to the general public.

2. Regulations

The regulations set forth above for non-published service also apply to non-listed service.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection (Cont'd)18.5.5 Publishing (Cont'd)18.5.5.5 Customer Service Guide

The Customer Service Guide is that section of the Telephone Company published directory that precedes the regular alphabetical list of end user names. A Customer Service Guide may also be present preceding the Yellow Pages when a separate Yellow Pages directory is published.

Inclusion in the Customer Service Guide under the terms and conditions of this tariff is limited to Certified Local Exchange Carriers/Local Exchange Carriers (customers).

A customer may be included in the Customer Service Guide for any published regular Telephone Company directory. Telephone Company directories are published annually and as such, a customer's ability to be included in a particular directory is dependent on the annual directory publication schedule. Inclusion in one directory does not require nor imply inclusion in any other directory publication, present or future.

Customers may request from one to four pages per directory in the Customer Service Guide, ordered in full page increments. Orders must be placed no later than two months prior to the directory "Alpha Close" date. No new orders or changes to existing orders will be allowed after that date for any given directory for any reason.

The Customer Service Guide may only include descriptive information about the customer's local exchange business, products and/or services. Promotional content is not allowed. References or comparisons to any other telecommunications providers and/or their services are also forbidden.

The Telephone Company (Publishing), at its sole discretion, retains complete editorial control regarding content and design of the Customer Service Guide.

The Telephone Company's liability for damages arising from errors or omissions in the making up or printing of the Customer Service Guide shall be limited to the amount of actual impairment incurred by the customer, and in no event shall exceed the amount paid for the service during the period covered by the directory in which the error or omission occurred.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)18.5.6 Telephone Number Assignments18.5.6.1 Blocks of 20 Telephone Numbers for Direct Inward DialingA. Telephone Numbers

A customer may order telephone numbers for its end user's Telephone Company DID port or WLS-DID service. When so utilized, these numbers are assigned in blocks of twenty (20). Multiple blocks of 20 telephone numbers will be provided upon request based on availability. Additional numbers, in blocks of twenty (20) numbers, may be ordered subsequent to the provision of the initial blocks of 20 telephone numbers.

A customer that subscribes to telephone numbers in blocks of 20 has the option of disassociating one or more of the numbers from the block for the purpose of subscribing to WLS, with or without vertical features, for the same end user. When this option is exercised, the customer shall continue to pay for the entire block of 20 numbers in addition to the rates and charges for the WLS and any associated vertical features. In addition, the disassociated telephone numbers(s) shall be returned to the original series of 20 when the associated DID port or WLS-DID service is removed.

B. Limitation of Offering

In recognition of the fact that telephone numbers are currently administered by the Telephone Company, they are offered only where facilities permit and where they are not required for provision of basic telephone service by any provider of local exchange service in the immediate or near future.

C. Assignment of or Change in Telephone Number

Neither the customer nor its end user has property rights in any telephone numbers assigned, nor any right to the provision of telephone numbers or continuance of telephone numbers in any particular exchange or through any particular central office or type of central office. The Telephone Company may change the telephone number, exchange or central office designation or the type of central office serving the end user whenever it deems it necessary in the conduct of its business.

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)

18.5.6 Telephone Number Assignments (Cont'd)

18.5.6.1 Blocks of 20 Telephone Numbers for Direct Inward Dialing (Cont'd)

D. Reservation of Telephone Numbers

In recognition of its responsibility for the administration of telephone numbers in the State of Connecticut, the Telephone Company retains sole jurisdiction in connection with any reservation of telephone numbers not specifically subscribed to in the provision of this Tariff.

Telephone number blocks of 20 may not be reserved for future use. If the customer anticipates a requirement for additional blocks of 20 telephone numbers and wishes to ensure their future availability, the customer may order those numbers be assigned in advance. However, customers must pay for all telephone numbers assigned, whether or not those numbers are in use by the end user.

E. Intercept Facilities

The customer/end user shall provide for the manual or mechanical interception of calls placed to numbers that have been assigned to the customer/end user, but are not in use.

Upon complete removal of DID port or WLS-DID service, the customer may request a reference of calls on individual telephone numbers or blocks of telephone numbers, at rates and charges based upon each individual circumstance.

F. Associated Directory Listings

The provision of telephone numbers for the identification of stations associated with DID port and WLS-DID services does not include the furnishing of directory listings.

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 18-166

Section 18 - Local Exchange Access Service

18.5 Co-Carrier/Network Interconnection Arrangements (Cont'd)

18.5.6 Telephone Number Assignments (Cont'd)

18.5.6.2 Vanity Numbers

A customer may request a specific telephone number on behalf of its end user by providing specific directory number combinations to the Telephone Company. A search of a maximum of five (5) telephone numbers in one (1) NXX code or one (1) specific 4 digit number across five (5) NXX codes within the same wire center, where applicable, will be given per customer request.

The alphabetic translation of the telephone number will not be printed in the telephone directory as a listing.

The Telephone Company may change the telephone number, exchange or central office designation or the type of central office providing service to the end user whenever it deems it necessary in the conduct of its business.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company

2nd Revised Page 18-167

d/b/a Frontier Communications of Connecticut

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-168

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-169

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company

2nd Revised Page 18-170

d/b/a Frontier Communications of Connecticut

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-171

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-172

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-173

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-174

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-175

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-176

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-177

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-178

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-179

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-180

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-181

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-182

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-183

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-184

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-185

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-186

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-187

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-188

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-189

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

(T)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-190

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

(T)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-191

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

(T)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

3rd Revised Page 18-192

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-193

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-194

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-195

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-196

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-197

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-198

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-199

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-200

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-201

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-202

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-203

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-204

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-205

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-206

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-207

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-208

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-209

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-210

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-211

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-212

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-213

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-214

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-215

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-216

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-217

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-218

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-219

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-220

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-221

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-222

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-223

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-224

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-225

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-226

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-227

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-228

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-229

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-230

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-231

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-232

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-233

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-234

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-235

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-236

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-237

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-238

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-239

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-240

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-241

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-242

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-243

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-244

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-245

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-246

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-247

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-248

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-249

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-250

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-251

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-252

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-253

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-254

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-255

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-256

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-257

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-258

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-259

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-260

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-261

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-262

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-263

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-264

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-265

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-266

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-267

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

3rd Revised Page 18-268

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company

3rd Revised Page 18-269

d/b/a Frontier Communications of Connecticut

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company

1st Revised Page 18-270

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-271

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-272

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-273

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-274

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-275

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-276

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-277

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-278

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-279

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-280

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-281

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-282

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-283

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-284

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-285

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-286

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-287

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-288

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-289

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-290

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-291

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-292

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-293

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-294

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-295

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-296

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-297

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-298

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-299

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-300

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-301

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-302

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-303

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-304

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-305

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-306

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-307

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-308

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-309

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-310

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-311

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-312

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-313

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-314

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-315

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-316

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-317

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-318

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-319

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-320

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-321

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-322

Section 18 - Local Exchange Access Service

18.6 Reserved for Future Use (Cont'd)

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Section 18 - Local Exchange Access Service

18.7 Custom Service Arrangements

A. General

Custom Service Arrangements or Special Assemblies may be provided by the Telephone Company, at the request of a customer, on an Individual Case Basis (ICB). Custom Service Arrangements and Special Assemblies may be provided by contractual arrangement and may include either a monthly rate, nonrecurring charge, or both.

Special Assemblies and Custom Service Arrangements may be provided by the Telephone Company provided that: (1) facilities are available to provide the requested service and (2) the requested arrangement utilizes facilities normally employed by the Telephone Company in the provision of service.

B. Rates and Charges

Rates and charges for new specialized services or arrangements requested will be provided on an individual case basis.

Special Assemblies and Custom Service Arrangements presently available in the Telephone Company's General Exchange Tariff are available to customers at a 25.4% discount off the rates and charges therein.

The Telephone Company will bill a Migration Charge when a Custom Service Arrangement or a Special Assembly is migrated to a CLEC. This migration fee will be developed on an individual case basis (ICB).

Section 18 - Local Exchange Access Service

18.7 Custom Service Arrangements (Cont'd)18.7.1 Meet Point Billing

A. Customer 96-WCSA-001: MCImetro, ATS, Inc.

Description

This Custom Service Arrangement provides the customer with tandem switching between the Telephone Company's network and interexchange carriers' (Carrier) networks for inward/outward traffic transiting the Telephone Company's tandem switches to/from the customer's end offices, and bills such Carrier access charges for the use of the Telephone Company's network.

The Telephone Company will develop multiple bill/single tariff meet point billing to provide the Telephone Company and the customer (collectively, the "Parties") the ability to bill the appropriate Carrier for intrastate and interstate calls, originating or terminating on the customer's network, that transit the Telephone Company's tandems. This meet point billing arrangement will be in accordance with the Multiple Exchange Carrier Access Billing (MECAB) document prepared by the Billing Committee of the Ordering and Billing Forum (OBF).

The Telephone Company will provide the customer with Carrier billing information for Carriers that transit the Telephone Company tandem switches. Any Carrier billing information provided by the Telephone Company to the customer with respect to meet point billing will be used solely for that purpose.

The Telephone Company and the customer will exchange meet point billing records on a daily (six days per week) and a monthly basis using the Network Data Mover (NDM) file transfer protocol over a 56 Kbps data link, provided by the customer. The Telephone Company will capture inward terminating call records and transmit Access Usage Records (AURs) to the customer for the appropriate Carriers. The customer will capture outward originating call records and transmit both inward and outward monthly Summary Usage Records (SURs) to the Telephone Company for the appropriate Carriers.

Access Elements

The Telephone Company reserves the right to bill the Carriers for the following access rate elements: tandem switching, transport interconnection charge, information surcharge and a negotiated bordering interconnection percentage (BIP) portion of transport.

The customer reserves the right to bill its appropriate access charges to the Carriers, which may include local transport, local switching, carrier common line charges, and/or fixed/variable mileage charges if applicable.

Section 18 - Local Exchange Access Service

18.7 Custom Service Arrangements (Cont'd)

18.7.1 Meet Point Billing (Cont'd)

A. Customer 96-WCSA-001: MCImetro, ATS, Inc. (Cont'd)

Liability

Each Party's liability to the other for any loss, cost, claim, injury, liability, or expense, including reasonable attorneys' fees, relating to or arising out of any act or omission in its performance of this custom service arrangement, shall be limited to the direct damages actually incurred; and there shall be no liability for acts or performance which do not occur in connection with performance hereunder. Neither Party shall be liable to the other for any indirect, special, or consequential damage(s) of any kind whatsoever.

Rates and Charges

Nonrecurring Charge \$28,374.00

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 18-326

Section 18 - Local Exchange Access Service

18.7 Custom Service Arrangements (Cont'd)

18.7.2 Optional Calling Plans (OCP) SNET Flat Rate Plan

A. Customer 96-WCSA-002: Frontier Communications of Connecticut

Custom Service Arrangement

This Custom Service Arrangement ("CSA") provides for resale of the SNET Flat Rate Plan offered in the Southern New England Telephone Toll Tariff, Part V, Optional Calling Plans (OCP) (G). This CSA is subject to all the terms and conditions contained in Part V. This service will be made available to Frontier Communications of Connecticut 180 days after a formal request is received by SNET.

Usage is rated as follows:

RATE SCHEDULES - To Applicable Resale Services

Call Type	Initial Thirty (30) Seconds			Each Additional One (1) Second		
	<u>Minimum</u>	<u>Maximum</u>	<u>Current</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Current</u>
Direct Dialed	Imputation	\$0.1260	\$0.0630	Imputation	\$0.0042	\$0.0021
Calling Card & Operator Assisted	Imputation	\$0.2100	\$0.1050	Imputation	\$0.0070	\$0.0035

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 18-327

Section 18 - Local Exchange Access Service

18.7 Custom Service Arrangements (Cont'd)18.7.2 Optional Calling Plans (OCP) SNET Flat Rate Plan

A. Customer 96-WCSA-002: Frontier Communications of Connecticut (Cont'd)

SNET Flat Rate Plan (Cont'd)

Flat Rate Plan Discount Schedule

Monthly Billed Amount	Minimum	Maximum	Current %
.01 - 5.00	0	50	0.0
5.01 - 10.00	0	50	0.0
10.01 - 15.00	0	50	0.0
20.01 - 20.00	0	50	0.0
25.01 - 25.00	0	50	0.0
25.01 - 30.00	0	50	0.0
30.01 - 35.00	0	50	0.0
35.01 - 40.00	0	50	0.0
40.01 - 45.00	0	50	0.0
45.01 - 50.00	0	50	0.0
50.01 - 55.00	0	50	0.0
55.01 - 60.00	0	50	0.0
60.01 - 65.00	0	50	0.0
65.01 - 70.00	0	50	0.0
70.01 - 75.00	0	50	0.0
75.01 - 80.00	0	50	0.0
80.01 - 85.00	0	50	0.0
85.01 - 90.00	0	50	0.0
90.01 - 95.00	0	50	0.0
95.01 - 100.00	0	50	0.0
100.01 - 125.00	0	50	0.0
125.01 - 150.00	0	50	0.0
150.01 - 175.00	0	50	0.0
175.01 - 200.00	0	50	0.0
200.01 +	0	50	0.0

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 18-328

Section 18 - Local Exchange Access Service

18.7 Custom Service Arrangements (Cont'd)

18.7.3 Special Networks

18.7.3.1 Extended LAN Service (Grandfathered)

Extended LAN Service is a Metropolitan Area Network (MAN) and Wide Area Network (WAN) data service that provides the customer's end-user with high speed Local Area Network (LAN) interconnection arrangements. The service consists of LAN Access Equipment located on the customer premises equipped with native LAN interfaces, such as Ethernet (10 Base) and Fast Ethernet (100 Base), LAN Switches located in the serving Central Office and the Asynchronous Transfer Mode (ATM) Backbone Network which provide transport when the end-user customer sites are geographically dispersed. The LAN traffic originates and terminates at the customer's end-user locations.

Charges/Liability

If the customer cancels during the term of this agreement, the customer will be liable for the present worth of the remaining monthly charges of the unexpired portion of the term of this agreement.

<u>Customer</u>	<u>Monthly Rate</u>	<u>Term</u>	<u>Effective Date</u>
99-WCSA-001: SAI	\$3,866.00	36 months	June 22, 1999

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 18-329

Section 18 - Local Exchange Access Service

18.7 Custom Service Arrangements (Cont'd)

18.7.3 Special Networks

18.7.3.2 Remote Monitoring

This Special Network provides the customer's end-user with surveillance, analysis, diagnostics, and remote repair of their 5ESS switch.

Charges/Liability

If the customer cancels during the term of this agreement, the customer will be liable for the present worth of the remaining monthly charges of the unexpired portion of the term of this agreement.

<u>Customer</u>	<u>Monthly Rate</u>	<u>Term</u>	<u>Effective Date</u>
99-WSCA-002:SAI	\$8,025.00	12 months	June 22, 1999

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-330

Section 18 - Local Exchange Access Service

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-331

Section 18 - Local Exchange Access Service

18.8 Reserved for Future Use

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-332

Section 18 - Local Exchange Access Service

18.8 Reserved for Future Use

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company

2nd Revised Page 18-333

d/b/a Frontier Communications of Connecticut

Section 18 - Local Exchange Access Service

18.8 Reserved for Future Use

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company

1st Revised Page 18-334

d/b/a Frontier Communications of Connecticut

Section 18 - Local Exchange Access Service

18.8 Reserved for Future Use

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-335

Section 18 - Local Exchange Access Service

18.8 Reserved for Future Use

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company

1st Revised Page 18-336

d/b/a Frontier Communications of Connecticut

Section 18 - Local Exchange Access Service

18.8 Reserved for Future Use

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company

1st Revised Page 18-337

d/b/a Frontier Communications of Connecticut

Section 18 - Local Exchange Access Service

18.8 Reserved for Future Use

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services18.10.1 High Capacity Transport ServiceGeneral

High Capacity Transport Service is a dedicated private line channel used for the transmission of digital signals. High Capacity Transport Service is comprised of one or more channels. Service functions may be added to the channel to improve its efficiency.

18.10.1.1 1.544 Megabits Per Second Digital ServiceA. General

1.544 Megabits per second (Mbps) Digital Service consists of dedicated two-point digital channels and equipment which provide for simultaneous two-way transmission of serial, bipolar, return-to-zero, isochronous digital signals at a transmission speed of 1.544 Mbps.

B. Availability of Service

1.544 Mbps Digital Service can only be provided from wire centers equipped for digital transmission. This service is subject to the technical limitations of the digital equipment used by the Telephone Company as set forth below.

1.544 Mbps Digital Service is furnished on a full-time basis (24 hours a day, seven days per week).

C. Performance Criteria and Interface Specifications.

1.544 Mbps High Capacity Digital Service is designed to provide error performance and circuit availability, at the Network Interface, on an end-to-end basis, based on industry standards adhered to by the Telephone Company.

Overall service performance criteria is dependent upon the end user provided terminal equipment Customer Serving Unit/Digital Serving Unit (CSU/DSUs) also conforming to the interface and performance specifications.

D. Network Interface

The demarcation point between the Telephone Company network and the end user's equipment/facilities is located at the minimum point of penetration into the end user premises, as specified in Section 2.2.5 of this Tariff.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 18-339

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.1 High Capacity Transport Service (Cont'd)

18.10.1.1 1.544 Megabits Per Second Digital Service (Cont'd)

E. End User Signal Constraints

All signals generated by end user terminal equipment must meet signal and format constraints. Some of these constraints are as listed below.

1. Data Rate: 1.544 Mbps +/- 75 bps.
2. Consecutive zeros: No more than 15 consecutive zeros may be generated.
3. Pulse density: At least 3 pulses in any 24 bit interval.

F. Minimum Service Period

The minimum service period for 1.544 Mbps Digital Service is one month.

G. Termination Liability

For service terms in effect prior to December 20, 2004:

Removal of the service in total, prior to the end of the service period, shall generate a termination charge as stated in Section 2 of this Tariff.

For service terms in effect after December 20, 2004:

If the customer terminates the Term Payment Plan (TPP) agreement prior to the expiration of the one, three or five year TPP, the customer shall pay a termination charge. Payment of the termination charge does not release the customer from other previous amounts owed to the Telephone Company. The termination charge shall be calculated as follows:

-All unpaid Special Construction or Nonrecurring Charges (excluding any waived charges); plus

-Fifty percent (50%) of all recurring charges for the remaining months of the customer's term.

H. Inter-Wire Center Digital Channel (IWCDC)

Mileage used to rate the Inter-Wire Center Digital Channel is the direct airline distance measured between the serving wire centers.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.1 High Capacity Transport Service (Cont'd)18.10.1.1 1.544 Megabits Per Second Digital Service (Cont'd)I. Cancellation and Deferment of Start of Service Charge

Cancellation charges apply if the service order request is canceled in whole or in part prior to complete installation or start of service. The customer is responsible for payment of the non-recoverable expenses (consisting of the loss on equipment and facilities installed, or in the process of being installed, the installation labor, cost of removal and other expense factors involved) incurred by the Telephone Company in connection with the order. Installation is considered to have started when, following receipt of the order, the Telephone Company incurs any expense in connection therewith or in preparation therefore which would not otherwise have been incurred. Charges are also applicable for deferment of start of service at the customer's request beyond one month as stated in Sections 2 and 18 of this Tariff.

J. Promotions

Upon fourteen (14) days notice to the DPUC, the Telephone Company may periodically offer promotional campaigns.

K. Waiver of Non-Recurring Charges

The Company may periodically waive the Non-recurring charges. For those customers who choose a Term Payment Plan (TTP) period of two (2) years or greater in length the Non-recurring charge does not apply.

L. Description of Service FunctionsTransfer Arrangement

The Transfer Arrangement service function permits a customer's end user to transfer a Local Digital Channel between one of two other Local Digital Channels terminating in the same wire center. The Local Digital Channels must use the same signal format.

Dual Tone Multifrequency (DTMF) activated control circuit is required to operate the transfer arrangement.

Diverse Routing

The Diverse Routing service function allows a customer's end user with multiple 1.544 Mbps Digital Services between the same premises to designate that all such services or any subset of such services be physically provided over different interoffice routes. In the event that suitable facilities are not available, special construction charges as outlined in Section 10 of this Tariff may apply.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.1 High Capacity Transport Service (Cont'd)

18.10.1.1 1.544 Megabits Per Second Digital Service (Cont'd)

L. Description of Service Functions (Cont'd)

Central Office Channelization

This service function, when used in conjunction with compatible, customer provided channelization equipment at the end user's premises, provides for the derivation of up to 24 voice grade connections in a central office. The signaling required at the central office for the voice grade connection application is provided by the central office channelization equipment service function.

Standard rates and charges for the interconnected services will apply in addition to the central office channelization service function rates and charges as set forth in this Tariff.

The customer or the customer's end user is responsible for furnishing the signaling for derived voice grade applications (circuits).

M. Credit Allowance For Service Interruption

The Telephone Company assures that when High Capacity Transport Service becomes unusable to the end user because of a failure of a facility component used to furnish High Capacity Transport Service, that this will result in a credit allowance. See Sections 2.12.1 and 2.12.2F of this Tariff.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.2 Frame Relay Service (FRS) ¹ (Grandfathered)

(C)

A. General

Frame Relay Service (FRS) is a connection oriented digital switched high speed data service that applies Link Access Procedure - D (LAPD) protocol to provide access connections and throughput across a wide geographical area. This high speed data service utilizes digital access facilities and a high performance frame relay switch to allow for the efficient transfer of data between various end user locations. FRS enables the end users to allocate circuit bandwidth to applications as desired utilizing statistical multiplexing, up to the maximum bandwidth purchased. A connection between the end user selected access links is established within the frame relay switch through a software defined logical connection called a Permanent Virtual Circuit (PVC). The service will provide the end user with the ability to efficiently connect various locations throughout the state.

B. Regulations

1. FRS is furnished on a full time basis (24 hours a day, 7 days a week).
2. The overall service performance is dependent upon the end user provided terminal equipment (CSU/DSUs, Routers, FRADS,...) conforming to the Telephone Company's network interface equipment standard or technical specification.
3. FRS requires data terminal equipment, which accumulates transmitted end user data and converts it to variable length information frames for transmission over the frame relay network. FRS supports transmission speeds up to the DS1 level. The Telephone Company will provide access links to the frame relay network, which include the network interface at the end user's premises. The User to Network Interface (UNI) will conform to standards specified in the Frame Relay Forum Document FRF.2.1; American National Standards Institute (ANSI), Standard T1.606 Addendum 1 and T1.617; Consultative Committee for International Telephony and Telegraphy (CCITT) standards I.122 and Q.933.
4. FRS is offered where facilities permit. If it is necessary to construct facilities to satisfy service requests, they may be provided pursuant to Special Construction. See Section 10.1.1 of this Tariff.

¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.2 Frame Relay Service (FRS) ¹ (Grandfathered) (Cont'd)

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C. Service ComponentsAccess Link

The Access Link provides a channel from the end user premises to the FRS Port Connection. Access Links are available at 56, 64, 128, 256, 384 Kbps and 1.544 Mbps. DS1 and Fractional DS1 Access Links must be equipped with B8ZS capability and Extended Super Frame (ESF) format.

Port Connections

Port Connections are the physical entry points into the FRS network. Ports provide dedicated access to the frame relay switch at 56, 64, 128, 256, 384 Kbps or 1.544 Mbps. Port Connections must be provided at the same transmission speed as the Access Link. One Access Link is required per Port Connection.

Permanent Virtual Circuit (PVC)

The Permanent Virtual Circuit (PVC) provides an electronic path between two Port Connections within the frame relay network. The Data Link Connection Identifier (DLCI) is the address for the PVC which identifies the PVC connection between the end user's premises and the Telephone Company's frame relay network for a UNI connection. The Telephone Company will always assign the UNI DLCI unless otherwise requested by the customer. PVCs are provisioned applying the end user specified Committed Information Rate (CIR) on ports of 56, 64, 128, 256, 384 Kbps or 1.544 Mbps. The CIR for an individual PVC cannot exceed 50% of the speed of the Access Link. The aggregate CIR for all PVCs cannot exceed 200% of the speed of the Access Link. Bursting is defined as the maximum throughput which can be achieved on an Individual PVC. The maximum that each PVC can be defined to burst is equal to the speed of the Access Link.

¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-344

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.2 Frame Relay Service (FRS) ¹ (Grandfathered) (Cont'd)

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D. Termination Liability

1. Removal of the service in total prior to the end of the service period, except as noted in 2. below, shall generate a termination charge. If the customer chooses a one year term and the service is discontinued prior to the minimum service period, the customer will be billed for the remaining number of months times the monthly payment. If the customer chooses the three year term or longer, and the service is discontinued prior to the minimum service period, the customer will be billed for the remaining number of months times the monthly payment for the first year, plus the present worth of the remaining monthly charges of the unexpired portion for years two and beyond.
2. The customer has the option to upgrade to an alternate Telephone Company service at any time during the contract period without incurring a termination charge, however, a one time nonrecurring charge will apply. These changes may also require a brief service interruption.

E. Cancellation

Cancellation charges apply if the service order request is canceled in whole or in part prior to complete installation or start of service. The customer is responsible for payment of the non-recoverable expense (consisting of the loss on equipment and facilities installed or in the process of being installed, the installation labor, cost of removal and other expense factors involved) incurred by the Telephone Company in connection with the order. Installation is considered to have started when, following receipt of the order, the Telephone Company incurs any expense in connection therewith or in preparation therefore which would not otherwise have been incurred. Charges are also applicable for deferment of start of service beyond one month at the customer's request.

F. Credit Allowance For Service Interruptions

The Telephone Company assures that when FRS becomes unusable to the end user because of a failure of a facility component used to furnish FRS this will result in a credit allowance. See Sections 2.12.1, 2.12.1F and 2.12.2B of this Tariff.

¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.3 Digital Data Service

A. General

Digital Data Service (DDS) provides a channel suitable for duplex four-wire transmission of serial synchronous data signals at transmission speeds of 2.4, 4.8, 9.6, 56 or 64 Kilobits per second (Kbps), between two or more locations for the same end user or designated Telephone Company Hub location as defined in The National Exchange Carrier Association (NECA) FCC Tariff Number 4. Digital Data Service is available to customers from Central Offices equipped for digital transmission.

Additionally, services with speeds of 2.4, 4.8, 9.6, and 56 Kbps are available with a secondary channel. 64 Kbps service is not available with a secondary channel.

Overall service performance is dependent upon the end user provided terminal equipment also conforming to the interface and performance specifications of the Telephone Company's Network Interface equipment.

B. Credit Allowance For Service Interruption

The Telephone Company assures that when DDS becomes unusable to the end user because of a failure of a facility component used to furnish DDS, that this will result in a credit allowance. See Sections 2.12.1 and 2.12.2F of this Tariff.

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.4 Switched Digital Data Service

A. General

Switched Digital Data Service (SDDS) provides a digital access line by means of digital central offices, where facilities permit, to an end user's premises. SDDS enables the transmission of simultaneous two-way digital signals at a speed of 56 Kilobits per second (Kbps) on a dial-up basis where both the originating and terminating stations are suitably equipped for SDDS.

SDDS is provided utilizing a four-wire non-loaded local loop connected from an SDDS equipped digital central office to the end user's premises. Where the central office serving the end user location is not SDDS equipped, an inter-wire center channel from the serving central office to a Telephone Company designated SDDS equipped central office will be required. Inter-wire center mileage rates and charges apply.

The furnishing of SDDS requires certain physical arrangements of the facilities of the Telephone Company and is therefore subject to the availability of such facilities.

The end user premises data unit must be compatible with the Telephone Company's central office 56 Kbps local line facilities and technical specifications.

SDDS calls include only direct dial communications, that is, calls dialed and completed without the assistance of an operator or operator services.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.5 Analog Private LineA. General

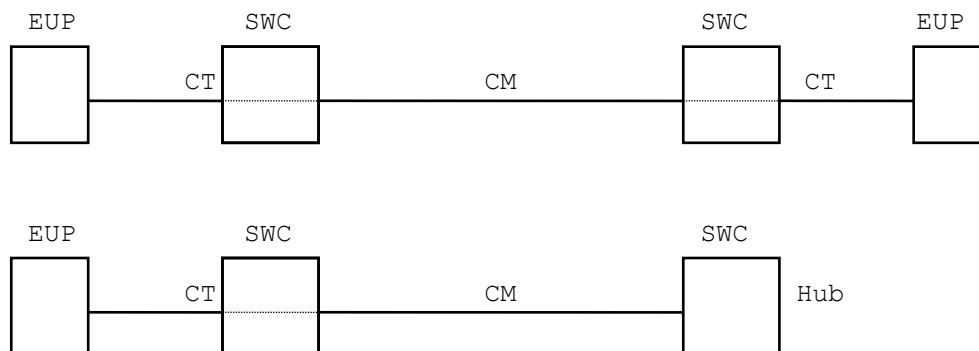
Analog Private line service is furnished as a complete service via facilities, including channels, between specified locations. This service is not connected to the General Exchange Network. Private line channels are electrical paths derived based on specific communications requirements according to Telephone Company provisioning standards. The customer/end user will provide all station apparatus used with the channels exclusive of the equipment necessary to derive and suitably terminate the channels for connection of customer/end user equipment.

The types of private line services and channels furnished are described below.

B. DefinitionsTwo-Point Service

A two-point Analog Private Line Service connects:

1. Two end user premises;
2. An end user premises and a Telephone Company Hub location where bridging and/or multiplexing functions are performed.

Example:

Legend: EUP - End User Premises
CT - Channel Termination
SWC - Serving Wire Center
CM - Channel Mileage

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.5 Analog Private Line (Cont'd)B. Definitions (Cont'd)Multipoint Service

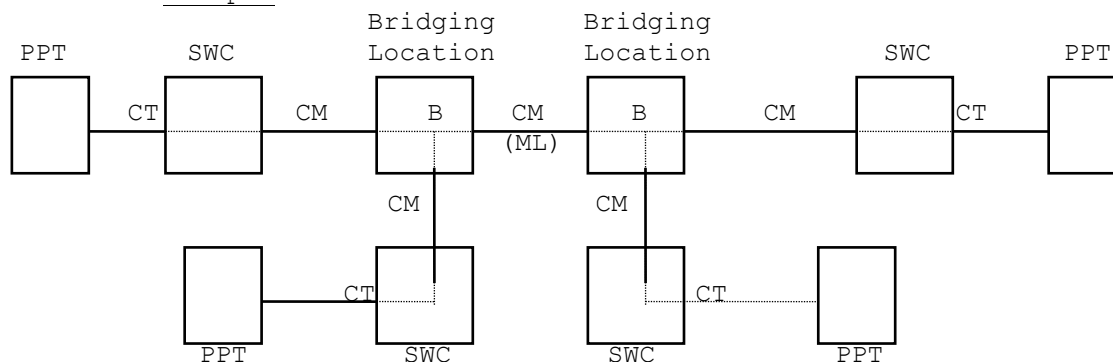
Multipoint service is provided via a bridging location that will connect three or more end user premises.

When ordering bridging, the customer must specify the desired bridging location(s), as set forth in National Exchange Carrier Association Tariff F.C.C. No. 4.

When Hubs are involved, mileage is computed and rates are applied separately for each section of the Channel Mileage and rates are applied to the distance calculated between the Serving Wire Centers (SWC) associated with the end user premises.

The Telephone Company may route a service via a Hub location for test access purposes.

Channels are connected to a bridging arrangement through a port. A channel between bridging locations is a mid-link. (Although there is no limitation on the number of mid-links available with Multipoint service, when more than three mid-links are provided in tandem, the quality of the service may be degraded.)

Example:

Legend: PPT - Per Point of Termination
CT - Channel Termination
SWC - Serving Wire Center
CM - Channel Mileage
B - Bridging Function
ML - Mid-link

In this example, rates for four (4) channel terminations, five (5) sections of channel mileage and four (4) bridging Per Point of Terminations (PPT) apply.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.5 Analog Private Line (Cont'd)B. Definitions (Cont'd)Standard Channel Termination

A Standard Channel Termination provides for the transmission facilities between an end user premises and the Serving Wire Center (SWC) of that premises. One Channel Termination charge applies per end user premises at which the service is terminated. This charge applies even if the end user premises and the serving wire center are collocated in a Telephone Company building.

A Standard Channel Termination includes a standard network channel interface arrangement based on the technical characteristics of the Telephone Company facilities at the point of termination and the type of signaling capability, which, if required, is provided as an optional feature.

Channel Mileage

Channel Mileage provides for transmission facilities between:

1. The SWCs associated with two end user premises;
2. A SWC associated with an end user premises and a Telephone Company Hub location;
3. Two Telephone Company Hub locations.

Channel Mileage rates apply according to mileage bands between Telephone Company Wire Centers. A monthly rate will apply for each band, i.e., a fixed (flat) rate plus a per mile rate. In addition, a nonrecurring charge will apply.

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.5 Analog Private Line (Cont'd)C. Service Descriptions

There are two sets of identifying codes associated with each service type:

1. A three or four position alpha/numeric code set referred to as a Service Designator (SD); and
2. A four position code set referred to as a Network Channel (NC) Code. The first two alpha characters are directly related to the Service Designator code, while the remaining positions refer to optional features.

A description of each service type is set forth below. More detailed information regarding these services may be found in separate subsections which follow for the service ordered.

Voice Grade

Voice Grade - A channel for the transmission of analog signals within an approximate bandwidth of 300-3000 Hz.

Metallic Grade (Grandfathered Obsolete)

Metallic Grade - An unconditioned channel for the transmission of low speed varying signals at rates up to 30 baud. This service is Grandfathered obsolete and as such is not available for new installations or additions to existing installations. Any change, relocation, or move will be considered a new installation.

Telegraph Grade (Grandfathered Obsolete)

Telegraph Grade - An unconditioned channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud. This service is furnished for half duplex or full duplex operation. This service is Grandfathered Obsolete and is not available for new installations or additions to existing installations. Any change, relocation, or move will be considered a new installation.

Telegraph Grade Service is provided between the end user's premises or between an end user's premises and a Telephone Company Hub location.

Signals applied to a Telegraph Grade Service shall conform to the limitations. In the case of dc telegraph signaling systems, the customer/end user shall be responsible, at its expense, for the provision of current limiting devices to protect the Telephone Company facilities from excessive current due to abnormal conditions and for the provision of noise mitigation networks when required to reduce excessive noise.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.5 Analog Private Line (Cont'd)C. Service Descriptions (Cont'd)SummariesService TypeSDs/NCsDescriptionVoice Grade

VG2/LC

VG3/LD

VG7/LH

VG10/LN

A channel for the transmission of analog signals in the nominal frequency range of 300 to 3000 Hz

Metallic Grade

MT1/NT

An unconditioned channel for the transmission of low speed varying signals at rates up to 30 baud.

Telegraph Grade

TG2/NY

An unconditioned channel for the transmission of binary signals at 150 baud (TG2).

D. Optional Features and Functions

Optional features and functions may be ordered to enhance the quality or utility of the Service to meet specific customer requested communications requirements. These optional features and functions may not be identifiable with specific equipment. They may, however, represent the overall performance characteristics, which may be obtained using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations on the facility, each optional feature and/or function is charged for as a single rate element.

Bridging

1. Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connections at a Telephone Company Hub location to connect three premises.
2. Series Bridging - Provides Series Bridging of up to 26 premises.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.5 Analog Private Line (Cont'd)D. Optional Features and Functions (Cont'd)Transmission Enhancement Options:

Sealing Current Conditioning - Helps maintain continuity on dry metallic loops. Usually associated with 4 wire "DA" or "NO" NCI codes at point of termination.

Data Capability - Provides for the control of signal to C-notched noise ratio and intermodulation distortion to provide two-point or Multipoint transmission characteristics suitable for data communications. When a service equipped with data capability is used for voice transmission, the quality of the voice transmission may not be satisfactory.

"C" Conditioning - Provides for the additional control of both attenuation distortion and envelope delay distortion.

End User Premises Terminating Options:Signaling Capability

Provides the means by which a customer initiates a request for service, holds a connection, or releases a connection. The signaling desired by the customer is specified in the NCI code.

Availability

The following table shows the optional feature and function availability for the Voice Grade Service technical specifications packages.

	<u>VG2</u>	<u>VG3</u>	<u>VG7</u>	<u>VG10</u>
A. Transmission Enhancements:				
- C Conditioning			✓	✓
- Sealing Current Conditioning				✓
-Data Capability				✓
B. Signaling Capability				
- Loop Start	✓	✓	✓	
- Ground-Start	✓	✓	✓	
- E&M Lead		✓	✓	
- Reversed - Battery		✓		
- 20-Hz Ringing	✓			
- No signaling	✓		✓	✓
C. Bridging	✓			✓

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 18-353

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.5 Analog Private Line (Cont'd)E. Technical InformationVoice Grade Service

Voice Grade Service is available in accordance with four technical specifications packages.

Voice Grade Service may be terminated at an end user premises on either a two-wire or four-wire basis, as set forth in the following table. When a customer requests that a four-wire channel termination be terminated with a two-wire channel interface, a four-wire to two-wire conversion is required and is included in the basic Channel Termination rate.

<u>Service Designator</u>	<u>Network Channel (NC) Code</u>	<u>Customer Premises Termination</u>	
		<u>2-Wire</u>	<u>4-Wire</u>
VG2	LC	A	A
VG3	LD	A	A
VG7	LH	A	A
VG10	LN	-	A

Voice Grade Service shall be ordered with the options desired with network channel interface (NCI) codes, as shown below, at the point of termination.

02AB2	02AB3	04AB2	04AB3	02AC2	04AC2	02CT3	04CT2	02DA2
04DA2	06DA2	02DB2	04DB2	04DD3	02DE2	04DE2	04DX2	04DX3
06DX2	02DY2	04DY2	06DY2	06DY3	09DY2	09DY3	04EA2	04EA3
06EA2	09EA2	09EA3	06EB2	08EB2	08EC2	06EX2	02G02	02G03
04G02	04G03	06G02	02GS2	02GS3	04GS3	04GS2	04GS2	04GS3
06GS2	02LA2	02LB2	02LC2	02L02	02LO3	04LO2	04LO3	06LO2
02LR2	02LR3	04LR2	04LR3	02LS2	02LS3	04LS2	04LS3	06LS2
02NO2	04NO2	02PR2	04PR2	02RV2	04RV2	04SF2	04SF3	02TF2
02TF3	04TF2	04CS9	04DS9					

In addition, NCI codes 06EB3-E and 04RV3-T may be ordered. Due to the use of optional multiplexing at a central office or a Hub location, a service may have a Voice Grade NCI code at one end user premises and a High Capacity Digital (code DS) NCI code at the other.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 18-354

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.5 Analog Private Line (Cont'd)

E. Technical Information (Cont'd)

Voice Grade Service (Cont'd)

The Voice Grade Service NCI code translation information follows:

<u>Wires</u>		<u>Impedance</u>	
<u>Code</u>	<u>No.</u>	<u>Code</u>	<u>ohms</u>
02	2	2	600
04	4	3	900
06	6		
08	8		
09	9		

Note: The following NCI codes require signaling capability:

AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV AND SF

<u>Code</u>	<u>Option</u>	<u>Description</u>	<u>Signaling</u>
AB		20-Hz ringing signal at end user	
AC		20-Hz ringing signal at end user	
	R	2 digit code select _ 10	
CS		Digital hierarchy interface at a central office	
		Digital cross connect (or similar) device	
CT		Centrex tie trunk termination	
DA		Data stream in voice frequency band at end user	
	S	Sealing current option for 4-wire transmission	
DB		Data stream in voice frequency band at end user	
DD		DATAPHONE Select-a-Station at end user	
DE		DATAPHONE Select-a-Station at end user	
DX		Duplex signaling at end user	
	X	Simplex reversal (4-wire)	
DY		Duplex signaling at end user	
EA	E	Type I E&M signaling - originates on E lead	
	M	Type I E&M signaling - originates on M lead	
EB	E	Type II E&M signaling - originates on E lead	
	M	Type II E&M signaling - originates on M lead	
EC		Type III E&M signaling - originates on M lead	
EX	A	Connects signaling functions of tandem signaling equipment - customer supplies open end functions, e.g., dial tone	

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 18-355

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.5 Analog Private Line (Cont'd)

E. Technical Information (Cont'd)

Voice Grade Service (Cont'd)

		<u>Signaling</u>
<u>Code</u>	<u>Option</u>	<u>Description</u>
EX	B	Connects signaling functions of tandem signaling equipment - customer supplies closed end functions e.g., dial pulsing
GO		Ground start loop signaling - end user supplies open end functions
	X	Simplex reversal (4-wire)
GS		Ground start loop signaling - end user supplies closed end functions
	C	Centrex foreign exchange termination
	M	Central Office answering service concentrator termination
	X	Simplex reversal (4-Wire)
LA		Loop start signaling - Type A registered port, open end
LB		Loop start signaling - Type B registered port, open end
LC		Loop start signaling - Type C registered port, open end
LO		Loop start signaling - open end function by end user
	X	Simplex reversal (4-wire)
LR		20 Hz ringdown with Telephone Company provided private line automatic ringdown (PLAR)
LS		Loop start signaling - closed end function by end user
	M	Central office answering service concentrator termination
	X	Simplex reversal (4-wire)
NO		No signaling interface - transmission only
	S	Sealing current (4-wire)
PR		Protective relaying
RV		Reverse battery signaling, one-way operation
	O	end user originates
	T	End user terminates
SF		Single-frequency signaling within VF band

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 18-356

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.5 Analog Private Line (Cont'd)

E. Technical Information (Cont'd)

Voice Grade Service (Cont'd)

Signaling

Code Option Description

AB	-	SF to manual ring
EA	-	SF to E&M signaling
CO	-	SF to loop signaling, ground start, open end
GS	-	SF to loop signaling, ground start, closed end
LO	-	SF to loop signaling, loop start, open end
LS	-	SF to loop signaling, loop start, closed end
LR	-	SF to automatic ring
TF	-	Telephoto interface

Metallic Grade Service

Metallic Grade Service is available, as Grandfathered Obsolete, in accordance with the following technical specifications packages:

<u>Service Designator</u>	<u>Network Channel Code</u>	<u>Description</u>
MT1	NT	Balanced metallic pair

Metallic Service shall be ordered with the following network channel interface codes (NCI) at the point of termination:

02DC8-1	02DC8-2	02DC8-3

Telegraph Grade Service

Telegraph Grade Service is available with the following optional pre-defined technical specification package:

<u>Service Designator</u>	<u>Network Channel Code</u>	<u>Description</u>
TG2	NY	Transmission of asynchronous transitions between 2 voltage levels at rates up to 150 baud

Telegraph Grade Service shall be ordered with the following network interface (NCI) codes at the point of termination:

02DB2-10	02DB2-43	04DB2-10	04DB2-43	10IA8	02TT2-2
02TT2-3	02TT2-6	04TT2-2			

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.6 Other Private Lines18.10.6.1 Premises Channels

Premises channels are used for the termination of each two point channel in different buildings on the same premises that cross a public right of way or interface with network facilities. Special Construction charges as set forth in FCC Tariff 7 may apply. A requirement of 25 or more pairs necessitates a Generic Cable Complement.

18.10.6.2 Supervisory Drop

A supervisory drop is a wire facility which extends from a telephone pole to an end user's building. It terminates in a Telephone Company provided connecting block or its equivalent, which is located at a point selected by the Telephone Company within the end user's building.

A supervisory drop is a dedicated facility limited to alarm supervision only and cannot be connected to the Telephone Company's general exchange network. It is provided for use in connection with a customer/end user provided local alarm device which is activated if either the supervisory drop or the exchange service is severed.

This service is designed for use only where aerial drops are used.

Supervisory drops are provided in one of two ways as follows:

Single conductor drop

The single conductor drop cable is a single wire pair drop cable provided in addition to the end user's exchange service drop cable.

Multiline conductor drop

The multi conductor drop cable is a six wire pair drop cable provided to contain both the exchange service drop and the supervisory drop in one cable.

18.10.6.3 Battery Taps

The Grandfathered Obsolete Metallic Grade channel facilities furnished in Section 18.10.5 of this Tariff contemplate channels without battery or generator ringing current and without terminal equipment except that required to derive and suitably terminate the channel.

Battery Taps and generator ringing current are considered Grandfathered

Obsolete and are available only on existing installations. No new installations or additions to existing installations are allowed.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.7 Series 6000 Channels (Grandfathered Obsolete)

18.10.7.1 Types and Description

Series 6000 Channels are furnished for one-way program (audio) transmission in conjunction with loudspeakers and sound recording.

This service is Grandfathered Obsolete and as such cannot be installed as new, cannot be moved to a new location and additional channels cannot be added to existing service. The service may be reterminated on the same or different premises of the same customer when terminating equipment changes are required.

A. Two-Point Interexchange Program Channels

Any one of the following arrangements comprises a two-point interexchange program channel service:

One local channel with or without an interoffice channel in an exchange connected by an interexchange channel to another local channel with or without an interoffice channel in a different exchange.

One local channel with or without an interoffice channel in an exchange feeding a music distribution center in another exchange with or without an interoffice channel connected by an interexchange channel.

An interexchange channel with or without an interoffice channel connecting music distribution centers.

- a) Type 6064 is a one directional two-wire interexchange service engineered for a 1000 Hz maximum loss of 12 dB and non-equalized.
- b) Type 6065 is a one directional two-wire interexchange service engineered for a 1000 Hz maximum pre-equalized loss of 12 dB and equalized from 1000 - 5000 Hz.
- c) Type 6066 is a one directional two-wire interexchange service engineered for a 1000 Hz maximum pre-equalized loss of 12 dB and equalized from 50 - 8000 Hz.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.7 Series 6000 Channels (Grandfathered Obsolete) (Cont'd)

18.10.7.1 Types and Description (Cont'd)

B. Local Channels and Interoffice Channels

Provides for program transmission facilities in the following situations.

Within an exchange area.

Between a station and its serving central office.

Between a studio or a distributing center and its serving central office.

Between a studio and a distributing center if the distributing center is located in the central office serving the studio.

Between a distributing center located in a central office and stations served by that central office.

A point of connection with a studio or station or distributing center with an interexchange channel provided the rate center central office is the serving central office.

Between a rate center central office terminating an interexchange channel, and the serving central office of a studio, station and distributing center.

Between a studio and station where both are served by different central offices.

Between a station or studio and a distributing center where the distributing center is located in a different central office as the station or studio.

- a) Type 6060 is a one directional two-wire intra-exchange service engineered for a 1000 Hz maximum loss of 12 dB and non-equalized.
- b) Type 6061 is a one directional two wire intra-exchange service engineered for a 1000 Hz maximum pre-equalized loss of 12 dB and equalized to ± 1 dB of the 1000 Hz loss from 100 $\pm$ 5000 Hz.
- c) Type 6062 is a one directional two wire intra-exchange service engineered for a 1000 Hz maximum pre-equalized loss of 12 dB and equalized to ± 1 dB of the 1000 Hz loss from 50 $\pm$ 8000 Hz.
- d) Type 6063 is a one directional two wire intra-exchange service engineered for a 1000 Hz maximum pre-equalized loss of 12 dB and equalized to ± 1 dB of the 1000 Hz loss from 50 $\pm$ 15,000 Hz.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.7 Series 6000 Channels (Grandfathered Obsolete) (Cont'd)

18.10.7.2 Regulations

The following regulations apply to Series 6000 channels.

A. Description of Channels

1. Facilities specially equipped and operated for program transmission in connection with loudspeakers and sound recording, are furnished for the transmission in one direction of music or speech.
2. The channel facilities covered in this Tariff are the only channel facilities furnished by the Telephone Company for program transmission in conjunction with loudspeakers and sound recording.
 - a) Other Program Audio Channels can be found in FCC Tariff 11.
 - b) Facilities furnished in conjunction with exchange, message toll or telephone private line services may not be connected to program transmission channels, nor can they be connected directly or indirectly to loudspeaker or sound recording equipment associated with program transmission channels.
 - c) Channels furnished in conjunction with loudspeakers may be connected with paging systems.
 - d) Channels furnished in conjunction with loudspeakers and sound recording may be interconnected with channels furnished in connection with radio broadcasting.
3. Program transmission channels used in conjunction with loudspeakers may be interconnected to form a network for the distribution of program material to several loudspeaker locations on different premises. Interconnection of such channels is completed at distributing centers on Telephone Company premises.
4. Amplifying equipment provided by the customer/end user and located at the end user's studio may be used to connect channels furnished under the same or different schedule classifications.
5. All station equipment and station wiring, other than equipment necessary for the suitable termination of the channel facilities on the premises of the end user, shall be provided by the customer/end user.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-361

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.7 Series 6000 Channels (Grandfathered Obsolete) (Cont'd)

18.10.7.2 Regulations (Cont'd)

A. Description of Channels (Cont'd)

6. The end user may interconnect at his studio the channels furnished by the Telephone Company with channels furnished by others, provided such interconnection will not result in direct or indirect connection for through transmission of Telephone Company interexchange channels with interexchange facilities of others except as specifically provided below. In addition, no interference with, or impairment of, service rendered by the Telephone Company will result from such connection.
7. Telephone Company interexchange channels may be connected with interexchange channels operating on frequencies assigned for frequency modulation broadcasting (FM broadcast channels), provided that Telephone Company interexchange channels are not connected via such broadcasting channels with interexchange channels of others except FM broadcast channels.

B. Mileage Measurements

1. Interexchange Channels

- a) Two-Point Service - The interexchange mileage is the airline distance (fractional miles being considered as full miles) between the rate centers of the service points (exchanges at which connection is made with local channels), mathematically determined in accordance with the V-H coordinate system of calculation of the distance between rate centers.
- b) Multi-Point Service - Except as provided below, the interexchange mileage for multi-point service is that combination of airline distances connecting service points which will produce the lowest total interexchange mileage charge. The airline distance between each pair of points is determined in accordance with a. preceding.

When the customer requests that the service points be connected in a specified sequence, the interexchange mileage is the shortest airline mileage determined in accordance with a. preceding which will connect the service points in the specified sequence.

2. Local Channels and Interoffice Channels

Local channels and interoffice channels are provided by Telephone Company distribution facilities and do not require mileage measurements.

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.8 Asynchronous Transfer Mode (ATM) Service¹ (Grandfathered)

(C)

A. General

Asynchronous Transfer Mode (ATM) Service is a fast packet, cell-based switching and transport technology that can support voice, video and data applications over a single physical access link. This high-speed service utilizes digital access facilities, high performance ATM switches and software defined logical connections called Permanent Virtual Circuits (PVC) to allow for the efficient transfer of voice, video and data between various end user locations throughout the state.

B. Description of Service

ATM Service can support user voice, video and data applications over a single physical access link. An ATM end user's voice, video and data applications are aggregated onto a single access link by a switch or multiplexer (provided by the end user) and transported to the ATM network. Once the information arrives at the network, the network switches the information to the correct destination for delivery. Each application (voice, video and data) can be delivered to a different destination at the same time.

ATM Service uses digital transmission facilities and advanced ATM cell switching and transport technology to provide a connection oriented high speed service. Connection oriented means that data transmissions (cells or segments of end user data) sent through the ATM network always follow the same pre-defined path with the data arriving in the order it was sent. The Wide Area Network (WAN) connection of an ATM Service is provided through the use of digital access facilities between an end user's premise and an ATM node (switch port). A virtual connection between end user selected locations is established within the ATM switches through a software defined logical connection called a Permanent Virtual Circuit (PVC). The software defined PVC allows for a real time dynamic allocation of switch capacity. Switched Virtual Circuits (SVC) are not supported at this time.

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¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

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(N)

C. Regulations 1 and 2 relocated to Page 18-363.

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-363

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.8 Asynchronous Transfer Mode (ATM) Service¹ (Grandfathered) (Cont'd)

(C)

C. Regulations

(M)

1. ATM Service is furnished on a full time basis (24 hours a day, 7 days a week).
2. The overall service performance is dependent upon the end user provided terminal equipment (routers, switches, etc.) conforming to the Telephone Company's network interface equipment standard or technical specification. It shall be the responsibility of the end user to ensure the continuing compatibility of the customer-provided equipment (CPE) that is used in conjunction with ATM Service.
3. ATM Service requires data terminal equipment that accumulates transmitted end user data and converts it to fixed length information cells for transmission over the ATM network. The cell is broken into two main sections, the payload and the header. The payload (48 bytes) is the portion, which carries the actual information (either voice, data or video). The header (5 bytes) is the addressing mechanism. ATM Service supports transmission speeds up to the OC3 level. The Telephone Company will provide access links to the ATM network, which include the network interface at the end user's premises. The User to Network Interface (UNI) will conform to standards specified in the ATM Forum Documents UNI 3.0/3.1. The Network to Network Interface (NNI) is not supported at this time.
4. The demarcation point between the Company network and the end user's equipment/facilities, is located at the minimum point of penetration into the customer premises. This is usually located within the telephone equipment room or area.

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In central offices where multiple ATM switches exist, a customer request for additional ports may require the Company to reconfigure the end user's existing ports. For the customer to take advantage of the no charge intraoffice bandwidth feature of ATM service, all of the end user's DS3 and OC3 ports must terminate on the same ATM switch. The reconfiguration of the customer's existing ports will result in a service outage period, the duration of which will be determined by the Telephone Company and coordinated with the customer. If the end user requires that no service outage occur, the Interswitch bandwidth charge will apply.

All ATM DS3 and OC3 service requests are evaluated on an Individual Case Basis (ICB) to determine availability and installation intervals.

¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.8 Asynchronous Transfer Mode (ATM) Service¹ (Grandfathered) (Cont'd) (C)D. Service ComponentsAccess Link

The Access Link provides a connection from the end user premises to the ATM Port Connection. The Port Connection is the physical entry point into the ATM network. One Access Link is required per Port Connection. Both the Access Link and the Port Connection are combined together under the Access Link Rate Element. Port Connections are provided at the same transmission speed as the Access Link. Access Links are available at speeds of DS1, DS3 or OC3. There are two types of OC3 Access Links available: protected and non-protected. A protected OC3 Access Link provides both primary and backup loop connections. If the primary connection fails, the backup takes over. The non-protected OC3 Access Link provides a single local loop connection. With this option, if the non-protected Access Link fails, there is no protection available.

Interoffice Access Link

ATM Service is offered from seven (7) Access Switches: Bridgeport01, Danbury00, Hartford03, Meriden00, New Haven02, New London00 and Stamford01. Interoffice Access Mileage is required when the end user's Serving Wire Center (SWC) is different from the ATM Access Switches. Applicable Interoffice Access Mileage will apply. There are two types of OC3 Interoffice Access Links available: protected and non-protected. A protected OC3 Interoffice Access Link provides both primary and backup interoffice connections. If the primary connection fails, the backup takes over. The non-protected OC3 Interoffice Access Link provides a single interoffice connection. With this option, if the non-protected Interoffice Access Link fails there is no protection available.

Permanent Virtual Circuit (PVC)/ Bandwidth

A virtual connection (VC) between end user selected locations is established within the ATM switches through a software defined logical connection also called a Permanent Virtual Circuit (PVC). The end user has the option of selecting a Virtual Path (VP) to carry two or more VC's/ PVC's or a stand-alone VC/PVC. The Virtual Path Identifier (VPI) and Virtual Channel Identifier (VCI) are the address identifiers for the PVC, which identifies the virtual connection between the ATM ports to the end user's premises. The Telephone Company will always assign the VPI or VCI number unless otherwise requested by the end user.

¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-365

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.8 Asynchronous Transfer Mode (ATM) Service¹ (Grandfathered) (Cont'd) (C)

D. Service Components (Cont'd)

Permanent Virtual Circuit (PVC)/ Bandwidth (Cont'd)

Bandwidth is the amount of capacity associated with the PVC. Bandwidth can be either Constant Bit Rate (CBR) or Variable Bit Rate (VBR). CBR is used primarily for video and voice applications. VBR is bandwidth shared among multiple users and is intended for use with bursty applications; i.e., data and file transfer. The end user has the option of requesting in increments of 1/2 Mbps up to the maximum available bandwidth per PVC equal to 1.536 Mbps for DS1 Access Links, 44 Mbps for DS3 Access Links and 150 Mbps for OC3 Access Links. The Peak Cell Rate (PCR) is the maximum transmission rate at which cells are transmitted through the PVC, and the Sustainable Cell Rate (SCR) is the average rate of the cells transmitted. All cells transmitted above the PCR will be discarded. The customer must provide the Telephone Company with the SCR value in Mbps. The value of the SCR cannot exceed 1/2 of the PCR and the total combined bandwidth associated with all PVC's connected to an Access Link cannot exceed the total maximum available bandwidth of the Access Link.

Bursting is defined as the maximum throughput that can be achieved on an Individual PVC. The maximum at which each PVC can be defined to burst is equal to the available speed of the Access Link, defined above. Bandwidth is charged on a per Access Link basis. The charge for bandwidth is applicable to interswitch arrangements only (end user Access Links connected through two different ATM switches). Except as defined under 18.10.8.c.4, there is no charge for intraswitch arrangements (end user Access Links connected through the same ATM switch).

¹ Effective March 16, 2022, Frontier will no longer support Moves, Adds or Changes nor new installations for [Frame Relay/ATM] Services. Upon service term expiration, these services will transition to a Month-to-Month service arrangement.

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-366

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered

(D)

A. General Description

Gigabit Ethernet Metro Area Network Service ("GEMAN") is an intraLATA dedicated high capacity channel limited to the transport of data signals between customer stations. GEMAN provides for the transmission of data at a discrete bit rate of 1 Gigabit per second (Gbps) in Ethernet format (Ethernet IEEE 802.3). GEMAN service is available in a point to point (node-to-node) configuration. This service may be used to provide Local Area Network (LAN) to LAN interconnection service through a transparent, native rate interface.

GEMAN Service can be used to seamlessly extend customer local area networks to off-site locations such as data centers, storage locations or satellite office locations within the same metro area. Applications that could be used with GEMAN include LAN-to-LAN connectivity, CAD/CAM file transfer, telemedicine and business continuity transport.

B. Regulations

In addition to the regulations contained elsewhere this tariff, the following regulations apply to GEMAN:

1. Provision of Service

- a. Interface specifications are as specified in the following Technical Specifications packages.

Network Interface Specifications SBC-TP-76412-000
Network Performance Parameters for Dedicated Digital Services-
Definitions and Measurements ANSI T1.503-2002

These publications may be obtained from:

APEx Support Team (734) 523-7348

The ANSI publication can be obtained from:

Alliance for Telecommunications Industry Solutions
1200 G. Street, NW Suite 500
Washington, DC 20005

- b. The customer provided equipment must deliver the data signals for GEMAN service within the industry specification for the subscribed data service.

¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-367

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.9 Gigabit Ethernet Metro Area Network ¹ - Grandfathered (Cont'd)

(D)

B. Regulations (Cont'd)

1. Provision of Service (Cont'd)

- c. GEMAN provides physical layer transport only. The Telephone Company assumes no responsibility for the through transmission of signals generated by CPE, for the quality of or defects in such transmission, for the reception of signals by CPE, or address signaling to the extent addressing is performed by CPE. Error detection and correction of data generated by CPE is the customer's responsibility.
- d. GEMAN service is designed to provide connectivity at the discrete bit rate of 1 Gbps. The service is considered interrupted when the customer reports to the Telephone Company and the Telephone Company confirms that continuity has been lost.
- e. The provision of GEMAN service is subject to the availability and operational limitations of the equipment and associated facilities. In the event that suitable facilities are not available or modifications to existing facilities are required, Special Construction Charges may be applicable as set forth in Section 10 of this tariff.
- f. Repeaters (circuit regenerators) will be located in Company wire centers as required. A monthly charge will be associated with each repeater element, except for the first repeater in a circuit path (as the first repeater is also used for service alarming and monitoring purposes).
- g. Additional repeaters (circuit generators) may be required on the diverse or alternately routed path when Protection Options are ordered by the customer. The need for repeaters on the protected path will be determined by the Telephone Company. Additional charges will apply.
- h. If Protection Options are added to an existing circuit that was installed after May 10, 2004, a temporary service interruption will result as the new protected circuit must be re-designed and re-installed. Termination charges will not apply for circuit redesign. The installation must occur during an agreed-upon maintenance window between a designated customer and the Telephone Company. The customer will be responsible for providing adequate floor space, as determined by the Telephone Company, to accommodate additional equipment bays and related power protection equipment (i.e., batteries). Protection Options are contingent on availability of equipment and fiber facilities from premise to premise. Other Special Construction charges may apply.

¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-369

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered (Cont'd) (D)

B. Regulations (Cont'd)

2. Channel Types: (Cont'd)

c. Repeater (RPTR)

A Repeater (circuit regenerator) may be used to extend the transmission of GEMAN signals (service) when necessary. In addition, the first repeater in any multi-repeater circuit will be used for service alarming and monitoring purposes.

d. Diversity Options

GEMAN service offers three Route Diversity options. They are: 1) Local Channel Diversity, 2) Inter-Wire Center Diversity, and 3) Alternate Wire Center Diversity. Each is described more fully in C.3., following. End to end diversity can be achieved by coupling alternate wire center diversity with inter-wire center diversity.

e. Protection Options

GEMAN service offers the following Protection Options: Equipment Only, Equipment Plus Fiber Path, Inter-Wire Center Path, and Power Protection. Protection options provide additional levels of reliability to GEMAN service.

¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date. (N)
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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered (Cont'd)

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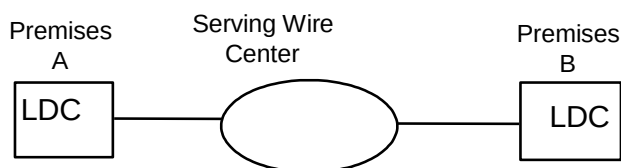
B. Regulations (Cont'd)

3. Service Configurations

All basic service configurations provide a full duplex service as a two-way simultaneous transmission. There is one basic type of GEMAN configuration: Node-to-Node (two-point) Service. GEMAN services from an end user data hub location to multiple points, or multiple GEMAN services between two end user data hub locations are aggregated Node-to-Node services.

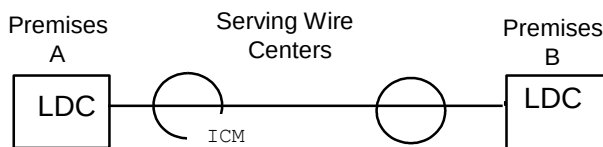
- a. A Node-to-Node configuration connects two end user designated premises either inter or intra wire center.

The following diagram depicts a Node-to-Node configuration connecting two end user designated premises served from the same wire center.



LDC - Local Distribution Channel

- b. The following diagram depicts a Node-to-Node configuration connecting two end user designated premises with Serving Wire Centers located "x" miles apart.



LDC - Local Distribution Channel

ICM - Interoffice Channel Mileage

RPTR - Repeater (where required)

¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered (Cont'd)

(D)

B. Regulations (Cont'd)

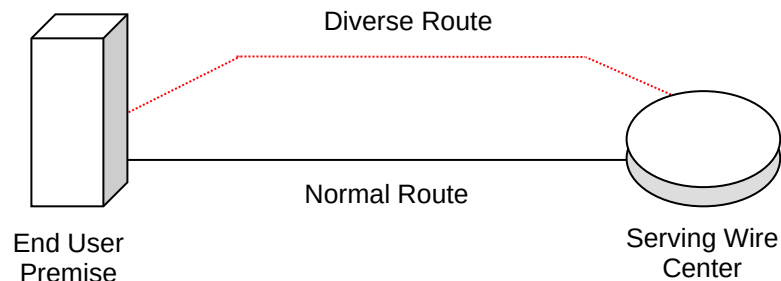
3. Service Configurations (Cont'd)

Diversity Options

Route diversity options are available where facilities exist. If appropriate facilities do not exist, Special Construction charges may apply. End-to-end diversity can be achieved by coupling Alternative Wire Center Diversity with Inter-Wire Center Diversity. Diversity Options are only available to customers end user with service installed after November 2003. GEMAN offers three diversity options:

a. Local Channel Diversity (LCD)

Local Channel Diversity provides for a transmission path between a designated customer premise and the standard serving wire center (SWC) that is diverse from the normal/standard transmission path. With this arrangement, one or more local distribution channels will be provisioned over the standard route and one or more local distribution channels will be provisioned over the diverse route. Local channel diversity does not provide for full diversity; it only allows for diversity from the splice point closest to the end user's property line to the SWC. If a end user desires full diversity, arrangements must be made for the construction of dual entrance facilities into the end user's premise, at the customer's expense.



¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered (Cont'd)

(D)

B. Regulations (Cont'd)

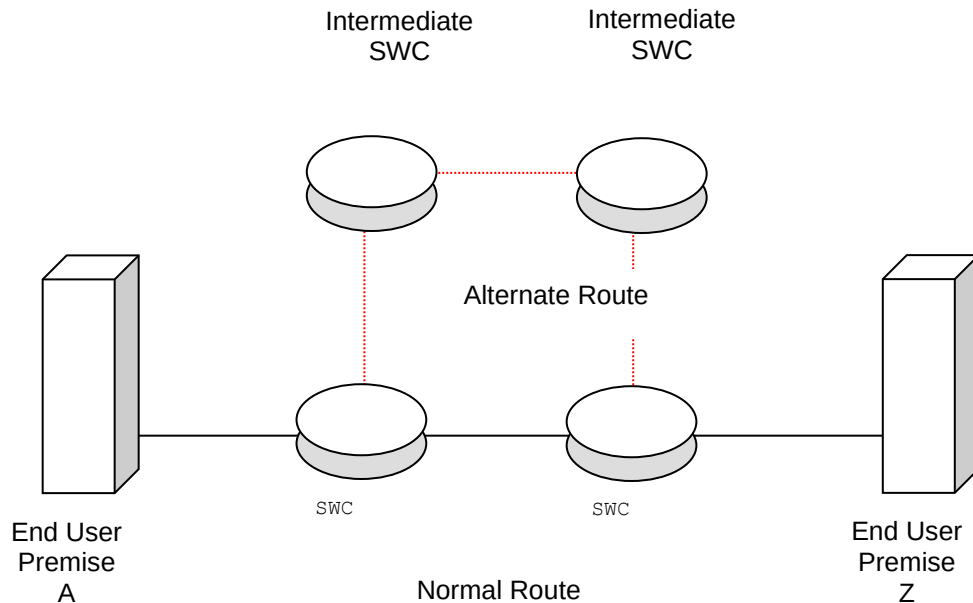
3. Service Configurations (Cont'd)

Diversity Options (Cont'd)

b. Inter-Wire Center Diversity (IWCD)

Inter-Wire Center Diversity arrangements presume that each end of a GEMAN local distribution channel is served out of a different serving wire center (SWC). This arrangement provides a transmission path for the GEMAN local distribution channels between the end user's designated SWC and the serving wire center at the distant end of the circuit, over a transmission path that is separate from the standard transmission path between the two wire centers.

In this scenario, the end user may or may not already have a GEMAN local distribution channel operating over the normal (or standard) inter-office route. Inter-wire center diversity does not provide for full diversity; it only offers interoffice diversity. If a customer desires full diversity, alternate wire center diversity must be coupled with Inter-wire center diversity. Additionally, arrangements must be made for the construction of dual entrance facilities at the end user's premise, at the customer's expense.



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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered (Cont'd)

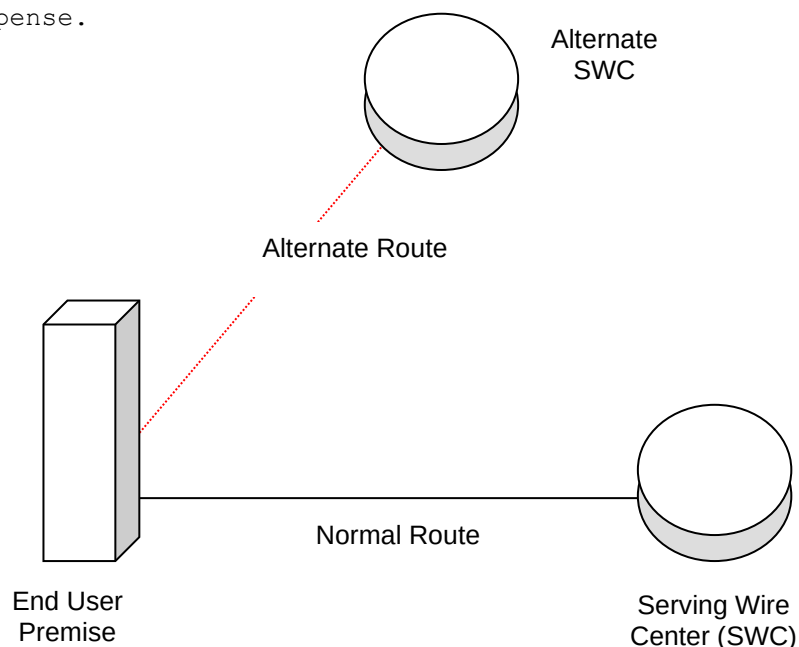
(D)

B. Regulations (Cont'd)

3. Service Configurations (Cont'd)

Diversity Options (Cont'd)c. Alternate Wire Center Diversity (AWCD)

Alternate Wire Center Diversity is for the local loop only. It provides a local channel transmission path for GEMAN service between the end user's designated premises and a wire center that is not the normal (or standard) serving wire center. The Company will choose the alternate wire center closest to the end user's designated premise that is capable of providing GEMAN Service over the alternate route. With this arrangement, one or more local distribution channels will be provisioned over the alternate route. If a customer desires full diversity, arrangements must be made for the construction of dual entrance facilities into the end user's premise, at the customer's expense.



¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered (Cont'd)

(D)

B. Regulations (Cont'd)

2. Protection Options

Protection Options are available where facilities exist. If appropriate facilities do not exist, Special Construction charges may apply. Protection Options are only available to customers with service installed after May 10, 2004. In addition to charges for the various Protection Options, normal charges for the Local Distribution Channel and Interoffice Channel Mileage will apply. Protection Options provide additional levels of reliability to GEMAN Service. There are multiple options for Protection at each end of a two point circuit. The options at each end do not need to be the same, but both ends must include some form of Protection, for any to be offered. A GEMAN circuit cannot include Protection at only one end (excluding Power Protection which can be at just one end, or both ends, of the circuit).

GEMAN offers the following Protection Options:

a. Equipment Only Protection (EOP)

Equipment Only Protection offers a network design where one GEMAN signal will be routed down two different fiber pairs that co-exist in the same cable and conduit structure, and terminate at the customer's premise in the same device (but into separate and distinct modules). Protection switching will occur between the two modules if necessary. Should one fiber pair or network element become defective, service will be maintained through 50 millisecond protection switching within the network terminating equipment (NTE) at the customer's demarcation point. If both fiber pairs are cut, an Out Of Service condition will result. This form of protection can only be ordered per loop (per end) for each circuit the customer wishes to protect.

b. Equipment Plus Fiber Path Protection

Equipment Plus Fiber Path Protection offers varying degrees of path protection for each terminating end of the circuit. For circuits that are served by different wire centers, Equipment Plus Fiber Path Protection may be combined with Inter-Wire Center Path Protection, to ensure a fully-protected circuit. Equipment Plus Fiber Path Protection, with:

¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-375

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered (Cont'd)

(D)

B. Regulations (Cont'd)

2. Protection Options (Cont'd)

b. Equipment Plus Fiber Path Protection (Cont'd)

Alternate Wire Center Path Protection (AWCPP)

One GEMAN (1 Gbps) signal will be routed over one fiber pair of the protected circuit from the customer's premise to the normal serving wire center, and a duplicate GEMAN (1 Gbps) signal will be routed over a diversely routed fiber pair to the Alternate Wire Center selected by the Company. If any location between the fiber paths is closer than 10 feet, the location or locations will be disclosed to the customer. The customer will determine whether to accept the engineered path, or agree to pay Special Construction Charges to have a completely diverse route constructed in those instances where there is not a minimum separation of 10 feet between paths. The customer can also select Equipment Only Protection for an inter-office segment where facilities are not available. This option can be selected for one or both terminating ends. If an equipment failure or fiber cable cut occurs in a segment of the circuit that has this form of protection, the circuit will be switched to the alternate path in 50 milliseconds or less. If a customer desires full path diversity, arrangements must be made for constructing dual entrance facilities into the customer's premise, at the customer's expense.

Local Channel Path Protection (LCPP)

The two fiber pairs of the protected service will be routed diversely to the normal serving wire center. If any location between the fiber paths is closer than 10 feet, the location or locations will be disclosed to the customer. The customer will determine whether to accept the engineered path, or agree to pay Special Construction Charges to have a completely diverse route constructed. This option can be selected for one or both terminating ends. If an equipment failure or fiber cable cut occurs in a segment of the circuit that has this form of protection, the circuit will be switched to the alternate path in 50 milliseconds or less. If a customer desires full path diversity, arrangements must be made for constructing dual entrance facilities into the customer's premise, at the customer's expense.

¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-376

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered (Cont'd)

(D)

B. Regulations (Cont'd)

2. Protection Options (Cont'd)

c. Inter-Wire Center Path Protection (IWCPP)

Each fiber pair is routed through different Central Offices between the two serving wire centers, or between the standard serving wire center and an alternate serving wire center. Inter-Wire Center Protection begins at the first manhole out of the Central Office. If only the two serving wire centers are involved, the two fiber pairs will be routed down two fiber paths that are separated by at least 10 feet. If any location between the fiber paths is closer than 10 feet, the location or locations will be disclosed to the customer. The customer will determine whether to accept the engineered path, or agree to pay Special Construction Charges to have a completely diverse route constructed. The customer will receive Equipment Only Protection for an inter-office segment where facilities are not available. If an equipment failure or fiber cable cut occurs on one of the inter-office routes, the circuit will be switched to the alternate path in 50 milliseconds or less. Interoffice mileage will be calculated between the intermediate serving wire centers along the circuit paths of both protected fiber pairs.

d. Power Protection (PP)

Power Protection provides customers with battery back-up for up to eight (8) hours to maintain GEMAN equipment in case of a power failure. Power Protection is provided on a per rack or cabinet basis, and customers in a multi-tenant building will require separate equipment and bays dedicated to each customer. Power Protection is not available for installations using a wall mounted cabinet. Requests for Power Protection are subject to equipment availability and compatibility. Upon receipt of a customer request for Power Protection, the Company will determine the availability, design and engineering requirements for Power Protection, and the appropriate number of service element charges to apply. The addition of Power Protection to existing GEMAN Service will result in a temporary service interruption.

¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 18-377

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.9 Gigabit Ethernet Metro Area Network ² - Grandfathered (Cont'd)

(D)

B. Regulations (Cont'd)

3. Minimum Service Period ¹

The minimum service period for is one year.

C. Termination Liability

1. Customers requesting the termination of a Term Pricing Plan (TPP) prior to the expiration date, excluding TPPs terminated as a result of renegotiations, will be charged a termination charge based on a percentage of the remainder of the term as indicated below:

- All unpaid Special Construction or nonrecurring charges (excluding any waived charges); plus
- Fifty (50) percent of all recurring charges for the remaining months of the customer's term.

Customers will be permitted to upgrade to a higher-speed service provided by the Company without incurring Termination Charges, given the following conditions are met:

- an upgrade is considered an increase in speed or capacity when comparing GEMAN Service to the new service.
- the customer must issue a disconnect order for the existing GEMAN Service and place a service order for the new, higher-speed service, such that there is no more than 90 days overlap in service.
- the same customer locations must be utilized for the new, higher-speed service.
- the expiration date for the new, higher-speed service is beyond the end of the original TPP term associated with the existing GEMAN Service.
- the existing GEMAN Service must have been in service for a minimum period of 12 months for a 24-month contract, 15 months for a 36-month contract, or 18 months for a 60-month contract. Existing GEMAN Service with 12-month contracts will not be eligible for this upgrade option. ⁽¹⁾

¹ Minimum in-service periods required for upgrades only apply for service installed after July 10, 2007.

² Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered (Cont'd)D. Cancellation

Cancellation charges apply if the service order request is canceled in whole or in part prior to complete installation or start of service. The customer is responsible for payment of the non-recoverable expenses (consisting of the loss on equipment and facilities installed or in the process of being installed, the installation labor, cost of removal and other expense factors involved) incurred by the Telephone Company in connection with the order. Installation is considered to have started when, following receipt of the order, the Telephone Company incurs any expense in connection therewith or in preparation therefore which would not otherwise have been incurred.

E. Moves

For circuits installed prior to May 10, 2004, a customer may move one Channel Termination of a GEMAN service to another premises in the same LATA and keep the Term Plan in force without assessment of Termination Liability, provided no lapse in billing occurs.

Moves of one Channel Termination to a premises in a different serving office (SWC) may result in a change in the monthly charges.

Standard non-recurring charges apply. If appropriate facilities are not available at the new location, Special Construction charges may apply. (D)

If a customer moves both ends of the service concurrently, the customer will be liable for Termination Liability charges, as this is considered a complete disconnection of the service.

If GEMAN circuits were installed after May 10, 2004, customers will be permitted to move one end of a GEMAN Service to another location, without incurring Termination Charges, provided the following conditions are met:

- The customer must issue a disconnect order for the existing location and place a new service order for GEMAN Service at the new location in order for Termination Charges for the existing location to be waived. Standard nonrecurring charges to install GEMAN Service as a new circuit will apply.
- Out-of-service time will need to be negotiated between the Telephone Company and the customer to allow time for the new circuit to be designed and installed.
- The term of the new contract must be equal to or greater than the remaining time left on the existing GEMAN contract.
- The existing GEMAN Service must have been in service for a minimum period of 12 months for a 2-year contract, 15 months for a 3-year contract or 18 months for a 5-year contract. Existing GEMAN Service with 1-year contracts will not be eligible for this Moves option.

Moves are contingent on availability of fiber from premise to premise. Other Special Construction charges, as necessary, may apply.

¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered (Cont'd) (D)F. Term Pricing Plan (TPP)

1. The TPP provides the customer with rate stabilization for the specific term period selected. Decreases in monthly recurring tariffed rates will be passed on to customers who participate in a TPP. The Telephone Company will notify customers participating in a TPP when monthly recurring rates are decreased.

Should the Telephone Company increase its rates during the TPP period, the customer shall continue to pay the rates in effect at the time the customer elected to establish service under the TPP.

2. The customer may choose to terminate an existing TPP before the end of the one, three or five year period and negotiate a new one, three or five year TPP. The new TPP must be based upon the rates that are currently in effect and available to all customers.
3. The customer must provide the Telephone Company with a written notice of intent to renew a TPP no later than 90 days prior to its expiration. If the customer elects not to renew the TPP, or does not notify the Telephone Company of the customer's intent to renew the TPP, the service will automatically be billed under the tariffed monthly extension rates in effect at the time the TPP expires. Subsequently, customers under the tariffed monthly extension rates may convert their existing service to either a one, three or five year TPP. Nonrecurring charges will be waived at the time of conversion.
4. Upon completion of a TPP, a customer's service will automatically convert to the monthly extension rates unless the customer requests a new TPP. A customer may not purchase GEMAN on a month-to-month basis prior to the completion of a TPP.

¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

2nd Revised Page 18-380

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered (Cont'd)

(D)

G. Service Interruption

1. A service is interrupted when it becomes unusable to the end user because of a failure of a facility component used to furnish service under this tariff or in the event that the protective controls applied by the Telephone Company result in the complete loss of service to the end user. An interruption period starts when an inoperative service is reported to the Telephone Company and the Telephone Company confirms that continuity has been lost and ends when the service becomes operative.
2. In case of an interruption to service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows:
 - Interruptions of less than 10 seconds: no credit.
 - Interruptions of 10 seconds or more: The customer shall be credited for an interruption as follows: 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.
3. The credit allowance(s) for service interruptions shall not exceed 100% of the applicable monthly rates.
4. The Company's failure to provide or maintain services under this tariff shall be excused by force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.
5. Protection Options

A Service Level Agreement (SLA) is offered with fully-protected GEMAN Service, which provides the customer with a performance commitment that includes a service credit if the service does not perform as described. An SLA of 99.999% Service Availability performance is offered on a GEMAN circuit with Protection (defined as Equipment Plus Fiber Path Protection for every segment of the circuit). Any protected service interruption of greater than two (2) consecutive seconds as a result of a failure on the protected portion of a circuit will result in a credit as follows:

¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered (Cont'd)

(D)

G. Service Interruption (Cont'd)

- SLAs are applicable to customers who purchase Equipment Plus Fiber Path Protection with Alternate Wire Center Path Protection or Equipment Plus Fiber Path Protection with Local Channel Path Protection on both ends of a circuit (both local channels), as well as Inter-Wire Center Path Protection, when applicable.
- If this SLA is not met, the customer will be entitled to a credit equal to 100% of the monthly rate for the circuit. Only one such credit in a billing period will apply.
- In order to qualify for this credit, the outage must be determined by the Company to be in its network and the failure occurred in that part of the service with Protection.
- SLA adjustments are not available in the event of a cable cut in any unprotected portion of the GEMAN Service fiber path or due to customer-requested modifications to the service that may require down time.
- The customer is responsible for notifying the Company when the service parameter within the calendar month falls below the committed level.
- The customer must request a service credit within 45 days after the end of the month when the failure occurred.

H. Technology Upgrade

Existing customers who request an upgrade from the existing GEMAN platform to a new platform will be allowed to do so under the following conditions:

1. The customer must issue a disconnect order for their existing GEMAN Service and place a new request for GEMAN Service using the new platform. Termination Charges for the existing service will be waived. Standard nonrecurring charges to install GEMAN Service using the new equipment platform will apply.
2. The term of the new contract must be equal to or greater than the remaining time left on the existing GEMAN contract.
3. The existing GEMAN Service must be provided to an end user by the same local service provider for a minimum period of 18 months with either a 3-year or 5-year contract. Existing GEMAN Service with 1-year contracts will not be eligible for this migration option.
4. The customer must purchase one or more of the Diversity Options being introduced on March 15, 2004 under this product tariff. Migration is contingent on availability of fiber from premise to premise. Other Special Construction charges, may apply.

¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.9 Gigabit Ethernet Metro Area Network¹ - Grandfathered (Cont'd)

(D)

I. Addition of Protection Options

Customers will be permitted to add Protection Options to existing GEMAN Service that was installed after May 10, 2004, without incurring Termination Charges, provided the following conditions are met:

- The customer simultaneously issues a disconnect order for the existing circuit and places a new service request for the protected circuit. Standard non-recurring charges to install the newly protected GEMAN circuit will apply. (The conditions described here do not apply to Power Protection added to an existing GEMAN circuit.)
- The term of the new contract must be equal to or greater than the time remaining on the existing GEMAN contract. (The conditions described here do not apply to Power Protection added to an existing GEMAN circuit.)
- The existing GEMAN Service must have been in service for a minimum period of 12 months for a 2-year contract, 15 months for a 3-year contract or 18 months for a 5-year contract. Existing GEMAN 1-year contracts will not be eligible for this option. (The conditions described here do not apply to Power Protection added to an existing GEMAN circuit.)

Addition of Protection Options are contingent upon availability of equipment and fiber facilities from premise to premise. Special Construction charges may apply as necessary.

¹ Gigabit Ethernet Metro Area Network Service ("GEMAN") is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services18.10.10 Ethernet Optical Metropolitan Area Network18.10.10.1 Description

Ethernet Optical Metropolitan Area Network (EON) Service is an optically switched data service, which allows for versatile scalability and flexibility over an Ethernet network provided by the Telephone Company. EON service allows businesses to interconnect customer locations within a Metropolitan Area Network (MAN) as if they were segments on the same LAN. Connections at the customer premises are made using native Ethernet interfaces and traverse the MAN over fiber and/or copper (at the Company's discretion). EON Service provides dedicated bandwidth from 2 Mbps up to 1 Gbps.

Customers will connect to EON Service via one of the following standard connections, as requested by the customer:

- 10/100BaseT (100 Mbps)
- Gigabit Ethernet (1000BaseSX, 1000BaseLX/LH and 1000BaseZX)¹

Customers may connect two or more locations together when utilizing a point-to-point or point-to-multipoint configuration and a minimum of three or more locations when utilizing a multipoint-to-multipoint configuration. available. This service will offer point-to-point, point-to-multipoint, and a multipoint-to-multipoint configuration², as long as it is in the same LATA or MAN and service is available.

EON Service includes the connection from the customer's premise to the Ethernet network, a port on the Ethernet network, a Committed Information Rate (CIR), and Ethernet Virtual Connections (EVCs). EVCs are logical connections that establish a logical path for customer traffic between two customer locations. A portion of the CIR is assigned to each EVC to establish how much bandwidth each path should have.

¹ CIR is inclusive of allowances for overhead within the Ethernet network. If a customer orders 1 Gbps of CIR on a single port, the Company reserves the right to use up to 10% of the bandwidth for traffic management.

² This provisioning requirement will only apply to new service installed after November 29, 2006.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)18.10.10.1 Description (Cont'd)

EON is provided under the following service configurations:

Basic The EON Basic Service provides the customer a switched, logical point-to-point or point-to-multipoint connection between customer locations, using a physical connection to the network, and virtual connections through the EON network.

Basic Plus The EON Basic Plus service provides the customer a switched, logical point-to-point, point-to-multipoint or multipoint-to-multipoint connection between customer locations, using a physical connection to the network, and virtual connections through the EON network.

The customer must select a unique Grade of Service, Best Effort, Bronze or Silver, described as follows:

Best Effort: This Grade of Service supports non-critical data applications with more tolerance for delay and/or those that are lower in priority (i.e. LAN traffic). There are no service performance parameters associated with this Grade of Service.

Bronze The applications best suited for this Grade of Service are data applications with more tolerance for delay and/or those that are lower in priority. This Grade of Service is the appropriate selection for general data traffic since it tolerates bursty and time-varying traffic. The service parameters associated with this Grade of Service are Packet Delivery Rate (PDR) and Latency.

Packet Delivery Rate is defined as at least 99.5% of the total traffic from source Network Terminating Equipment (NTE) to the destination NTE to which the customer port is attached.

Latency is limited to a delay across a connection of no more than 27 ms (54 ms roundtrip) one-way end-to-end within the Company's network for packets 1500 bytes or less.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)

18.10.10.1 Description (Cont'd)

Silver Supports applications that require minimal loss and low latency variation (jitter). Data in this Grade of Service will be provisioned in a priority queue indicating that it is delay sensitive. The service parameters associated with this Grade of Service are Packet Delivery Rate (PDR), Latency and Jitter.

Packet Delivery Rate is at least 99.9% of total traffic from source NTE to the destination NTE to which the customer port is attached.

Latency will be limited to a delay across the network of no more than 18 ms (36 ms roundtrip) one-way end-to-end within the Company's network for packets 1500 bytes or less.

18.10.10.2 Definitions

Jitter will be limited to less than 12 ms one-way end-to-end within the Company's network.

Jitter

Jitter is defined as the delay that occurs between two (2) packets or Ethernet frames that are traversing the network. Jitter is calculated as the delay variance of the packets transported across the network or the delta between two consecutive packets. It is measured between two endpoints, and will consist of measuring the time between a set of packets. Jitter is measured by averaging sample measurements taken during a 30 day period between network termination equipment to which the customer ports are attached when the EON network is available.

Latency

Latency is defined as the amount of time necessary for a typical frame to traverse the network. Latency is calculated as the measurement of time taken for a customer frame to go from one end of the network (origination point) to the other end (termination point). The measurement will consist of measuring the time it takes to "ping" or travel from the origination to termination points for the connection in question. Latency is measured by averaging sample measurements taken during a 30 day period between network termination equipment to which the customer ports are attached when the EON network is available.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)18.10.10.2 Definitions (Cont'd)Packet Delivery Rate (PDR)

PDR is defined as the actual amount of useful and non-redundant information that is transmitted or processed from end-to-end across the network. It is a function of bandwidth, error performance, congestion and other factors. PDR will be defined as a percentage of Ethernet frames offered to the network that successfully traverse the network, end-to-end, within the CIR, and within a 30 day period. PDR is calculated as the total number of effective Ethernet frames, per port, that successfully traverse the network divided by the total number of effective Ethernet frames, per port, offered to the network within a 30 day period. Those frames that violate the maximum range will be excluded from the calculation. PDR is measured by averaging sample measurements taken during a 30 day period from NTE to NTE to which the customer ports are attached when the EON network is available.

Media Access Control (MAC) Address

Denotes a data link layer protocol used for Layer 2 connectivity.

18.10.10.3 Terms and Conditions

In addition to regulations set forth elsewhere in this Tariff, the following regulations apply to EON Service:

- A. EON Service is provided at the option of the Company where equipment and facilities permit. If appropriate facilities are not available, Special Construction charges may apply. EON service is available in Company Central Offices as specified in National Exchange Carrier Association, Inc., Tariff F.C.C. No. 4 (NECA Tariff F.C.C. No. 4).
- B. If a customer desires service from a Serving Wire Center that is not equipped to provide EON Service, additional charges (including a repeater charge) will apply. A network engineering study will need to be completed to ensure adequate service provisioning is capable.
- C. The customer provided equipment (CPE) must deliver the data signal for the transport within the industry specifications for the subscribed data service.
- D. If the customer connects to the EON network using a bridge or switch for Layer 2 (Ethernet data link layer) connectivity, only 50 MAC addresses can be used per Layer 2 device, per port. Any additional addresses will be assessed an additional charge, with a maximum limit of 100 MAC addresses total per port.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)

18.10.10.3 Terms and Conditions (Cont'd)

- E. If a customer desires that service be provided on a due date less than the standard installation interval, the customer may request that service be provided on an expedited basis. If the Company determines that service can be provided on the requested expedited date and spare facilities are available, the Expedite Order Charge (per port, per location) will apply.
- F. If the customer cancels service prior to installation being completed, a Service Order Cancellation Charge (per port, per location) will apply. The customer's intent to cancel service must be made in writing.
- G. The CIR must be committed to for a 30 day period before an increase in CIR can be requested.
- H. EON does not allow for oversubscription. The sum total of the usage assigned to EVCs are mapped to a single port and cannot exceed the ordered CIR.
- J. For Basic Service, a total of 8 EVCs may be configured per 10/100BaseT connection and a total of 64 EVCs may be configured per 1 Gbps connection. For Basic Plus Service, a total of 7 EVCs may be configured per 10/100BaseT Connection, and a total of 63 EVCs may be configured per 1 Gbps connection. Should the customer request more than 64 EVCs on a Basic Service 1 Gbps connection, or more than 63 EVCs on a Basic Plus Service 1 Gbps connection, a technical review will need to be conducted to determine whether the network will support the request.
- K. EON service supports full duplex communication.
- L. EON service is not available in a meet-point billing arrangement involving other carriers.
- M. A Letter of Authorization (LOA) will need to be established if customers want to purchase a logical connection via EVC to another customer in order to ensure security and accuracy in the connection.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)18.10.10.3 Terms and Conditions (Cont'd)

N. Service Level Agreements (SLAs)

Service Level Agreements (SLAs) will be offered with this service, for the Bronze and Silver Grades of Service and provide customers with end-to-end performance backed by service credits if minimum quality standards are not met by the Company.

1. Network Availability

- Network Availability of 99.95% per month, including the local loop, is provided by the Company. This equates to less than 21.6 minutes of downtime per month (based on a 30 day month), excluding maintenance windows and other appropriate exclusions. Network Availability is calculated as the percentage of time that the network is capable of accepting and delivering customer data to the total time in the measurement period.

Network Availability =

[24 hours x days in month x 60 minutes x number of customer sites] - network outage time (measured in minutes)

[24 hours x days in month x 60 minutes x number of customer sites]

- As noted in the above formula, all ports included in a customer's network are utilized in calculating Network Availability.
- The customer is responsible for 1) notifying the Company within 45 days after the end of each month when the service parameter falls below the committed level, and 2) requesting a service credit.
- Upon verification by the Company that the actual service performance for that parameter was less than the committed level, the customer will be provided a service credit equal to 10% of the monthly recurring charge for that service parameter for all affected ports.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)18.10.10.3 Terms and Conditions (Cont'd)

N. Service Level Agreements (SLAs) (Cont'd)

2. Grade of Service SLA

Grade of Service SLAs are provided for EON Service for the Bronze and Silver Grades of Service. If the Company fails to meet service parameters defined for the Bronze or Silver Grades of Service, service credits will be offered to the customer given certain conditions are met:

- The customer is responsible for 1) notifying the Company within 45 days after the end of the month when the service parameter within the calendar month falls below (or above) the committed level, and 2) requesting a service credit.
- Upon notification by the customer that the actual service performance for that parameter was less than the committed level, the Company has 30 days to correct the problem.
- If after 30 days, the service performance for that parameter is still less than the committed level, the customer will be provided a service credit equal to 25% of the monthly recurring charge for that service parameter for all affected ports for the month in which the service parameters fall below (or above) the committed level.
- Packet Delivery Rate (PDR), Latency and Jitter calculations will be measured only when the EON network is available.

3. SLA Exclusions

The Company will not provide any SLA or Grade of Service credits for the Bronze and Silver Grades of Service should any of the following conditions occur or as limited by other sections of this tariff:

- Force majeure events such as, but not limited to earthquakes, hurricanes, floods, storms, tornadoes, explosions, lightning, power surges or failure, fiber cuts, labor strikes or disputes, as acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God or other circumstances beyond the Company's reasonable control.
- All SLAs are offered across the Company's network. The failure of any components beyond the local facility, including the Network Interface (NI) are excluded from the SLA credit calculation.
- Data Loss during the Company's scheduled maintenance window.
- Data exceeding the subscribed to CIR.

Failures attributed to facilities or equipment provided by the customer or its contractors, equipment vendors, another local exchange carrier or interexchange carrier.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)

18.10.10.3 Terms and Conditions (Cont'd)

O. For Basic and Basic Plus point-to-point and point-to-multipoint service, the Company will use controls to limit the amount of broadcast traffic to protect the EON network against broadcast storms. The maximum throughput of broadcast traffic will be set at 10 Mbps per customer port. Packets dropped by traffic controls will be excluded from SLA calculations. The Company recommends that customers enable controls for broadcast traffic within the customer network(s).¹

P. For Basic Plus multipoint-to-multipoint service, the Company will use controls to limit the amount of multicast and broadcast traffic to protect the EON network against traffic storms.

The maximum throughput of multicast traffic will be set at 1 Mbps per customer port, while the maximum throughput of broadcast traffic will be set at 200 packets per second per port. Packets dropped by traffic controls will be excluded from SLA calculations. The Company recommends that customers enable controls for multicast, broadcast and unknown unicast traffic within the customer network(s).

Q. Data exiting the network through the customer ports are excluded from SLA calculations to the extent that it exceeds the CIR for those ports.

R. The responsibility of the Company shall be limited to furnishing the EON network. Subject to this responsibility, the Company shall not be responsible for the through transmission of signals generated by CPE or for the quality of, or defects in, such transmission or the rejection of signal by CPE. The Company shall not be responsible for installation, operation, maintenance or adapting EON to the technological requirements of specific CPE. In addition, the Company shall not be responsible to the customer if changes in any of the equipment, operations or procedures of the Company used in the provisioning of EON render any facilities provided by the customer obsolete; or require modification or alteration of such equipment or system; or otherwise affect its use or performance, provided the Company has met all applicable information disclosure requirements otherwise required by law.

¹ This provisioning requirement will only apply to new service installed after April 30, 2007.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 18-391

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)

18.10.10.3 Terms and Conditions (Cont'd)

- S. Customers will be permitted to move from a 10/100BaseT (where facilities and equipment permit) to a Gigabit Ethernet interface option (staying within the Basic or Basic Plus Connection, or moving from the Basic to the Basic Plus Connection), however the Nonrecurring Charge associated with the new Gigabit Ethernet Connection will apply. However, should a customer simply wish to move from Basic to Basic Plus (without any change to the interface option; for example, retaining the 10/100BaseT interface), only the Service Order Change Charge will apply.
- T. The aggregate assigned Committed Information Rate (CIR) across all Ethernet Virtual Connections (EVCs) between any two customer connections cannot exceed 600 Mbps per Basic or Basic Plus connection.¹
- U. The customer interface to EON Service is specified in:

Subject

Network Equipment Design Requirements
Ethernet Standards for the SBC Local Exchange CompaniesSBC-TP76412-000

¹ This provisioning requirement will only apply to new service installed after November 29, 2006.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)18.10.10.4 Features

A. Standard Features

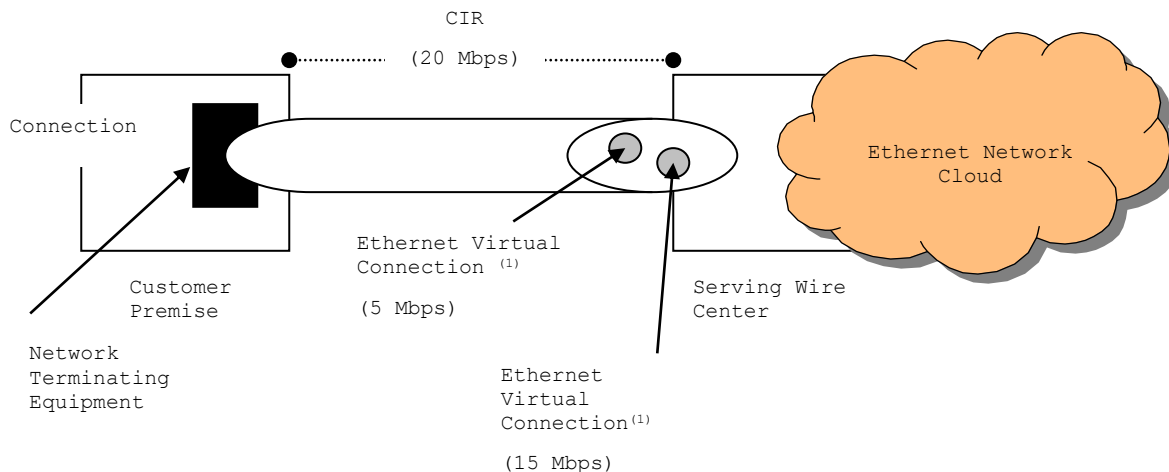
Connection

Provides for the physical connection between the customer's premise and the serving wire center. This is comprised of a transport component, interface component and a port connection component. Several interface protocols are available: 10/100BaseT (100Mbps) and Gigabit Ethernet (1000BaseSX, 1000BaseLX/LH or 1000BaseZX)

Committed Information Rate (CIR)

CIR provides a committed level of transmission (or bandwidth) to the Connection. The customer can select a CIR from 2 Mbps to 1 Gbps per connection. The CIR is shared among one or more Ethernet Virtual Connections (EVCs), which provide a logical point-to-point connection between two customer locations.

The following diagram describes the various service components:



1 EVCs are used to establish a path for certain traffic between two customer locations, and do not have a charge associated with them. Each EVC must have a portion of the CIR service element assigned to it.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)18.10.10.4 Features (Cont'd)

B. Optional Features

Repeater

For those customers who are located outside normal transmission parameters, or are served by a Serving Wire Center that is not equipped for EON Service, service can be provided using a repeater. An engineering study will be completed to ensure transmission parameters can be met using a repeater, and the Company will determine when Repeaters are necessary. Additional charges will apply. Provisioning of Service is subject to the availability and operational limitations of the equipment and associated facilities.

Additional MAC Addresses

If a customer connects to the EON network using a bridge or switch for Layer 2 (Ethernet data link layer) connectivity, only 50 MAC addresses can be used per Layer 2 device, per port. Any additional addresses will be assessed an additional charge, with a limit of 100 MAC addresses total per port.

Ethernet Virtual Connection (EVC)

An Ethernet Virtual Connection is a logical point to point connection between two locations and goes from the customer demarcation point at one location through the network to terminate at demarcation point at the second customer location. When multiple EVCs are provisioned, the customer must designate the portion of the CIR assigned to each EVC. For multipoint-to-multipoint connections, EVCs can be set in 1 Mbps increments from 2 Mbps to 600 Mbps¹. For multipoint-to-multipoint connections, EVCs can be set in 1 Mbps increments from 2 Mbps to 1Gbps. If a customer purchases the Silver Grade of Service for CIR, the initial EVC will be prioritized as Silver. Additional EVCs can be prioritized as Silver, Bronze or Best Effort. However, if a customer purchases the Bronze Grade of Service, additional EVCs cannot be prioritized as Silver, but only as Bronze or Best Effort. If a customer purchases the Best Effort Grade of Service for CIR, additional EVCs can only be prioritized as Best Effort.

¹ This provisioning requirement will only apply to new service installed after November 29, 2006.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)

18.10.10.5 Pricing

A. Payment Plans

1. Term Payment Plans

EON Service is only available under the Term Payment Plan ("TPP") whereby customers must select either a 12, 24, 36 or 60* month period. After the selected Term Payment Plan period is satisfied, the Monthly Extension Price in effect at the time of contract expiration will apply unless a new TPP is selected.

2. Renewal of Term Payment Plans

At the end of a Term Payment Plan ("TPP"), the customer may renew with a written notice of intent to renew no later than 90 days prior to its expiration, for any TPP in effect without incurring new nonrecurring charges. If the customer elects not to renew the TPP or does not notify the Company of its intent to renew the TPP, the service will automatically be billed under the Monthly Extension rates in effect at the time the TPP expires until the customer cancels or renews the service with a new TPP term. Subsequently, customers under the Monthly Extension rates may convert their existing service to either a 1, 2, 3, or 5* year TPP. The customer will not be assessed any associated nonrecurring charges as long as the physical serving arrangement does not change. Monthly Extension rates are not available to new service.

The Term Pricing Plan provides the customer with rate stabilization for the specific term period selected. Decreases in Term monthly recurring tariff rates will be passed on to customers who participate in a Term Pricing Plan.

Should the Company increase its rates during the Term Pricing Plan period, the customer would continue to pay the rates in effect at the time the customer elected to establish service under the Term Pricing Plan.

* Effective November 15, 2013, customers may not establish new term plans greater than 36 months for EON Service, and existing term plans greater than 36 months may not be renewed or extended for a term greater than 36 months.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)18.10.10.5 Pricing (Cont'd)

B. Termination Charges

Termination charges will apply to service terminated prior to the contracted period.

1. If the customer terminates the TPP agreement prior to the expiration of the 12, 24, 36, or 60 month service term, the customer shall pay a termination charge. Payment of the termination charge does not release the customer from other previous amounts owed to the Company. In addition to any unpaid Special Construction or nonrecurring charges (excluding any waived charges), Termination Charges will be equal to:
 - Fifty percent (50%) of all recurring charges for the remaining months of the customer's term
2. The customer has the option to upgrade the speed of the service or select a more sophisticated data service with the Telco at any time during the contract period without incurring a termination charge. The contract term for the new upgraded service must be equal to or greater than the remainder of the existing product's service contract that the customer is converting from. However, a one time service change charge or NRC will apply. These changes may also require a brief service interruption.
3. Customers may move their existing service to a new location without incurring Termination Charges provided all of the following conditions are met:

The customer maintains the existing TPP at the new location or establishes a new TPP equal to or greater than the old location;

 - During the TPP, a customer may move an EON Service location to another premises in the same LATA and keep the TPP in force without assessment of Termination Charges, provided no lapse in billing occurs;
 - The customer's request for disconnect at the existing location and the request for service at the new location are received at the same time, and the customer's disconnect order for the existing service references the new connect order for the new service;
 - Moves of one location to a premise in a different serving office may result in a change in the monthly charges. Nonrecurring charges as appropriate are applicable.
 - If the customer moves more than one location of the service concurrently, the customer will be liable for Termination Charges, as this is considered a complete disconnect of the service.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)

18.10.10.5 Pricing (Cont'd)

B. Termination Charges (Cont'd)

4. Customers may upgrade their CIR to a higher speed without incurring Termination Charges, depending on facilities used. The Company will determine whether such an upgrade is permissible based on the type of facilities currently used to provide the service. In addition, Customers may upgrade their Grade of Service without incurring Termination Charges provided the upgrade does not include any reduction in the customer's existing CIR.
5. For service installed after July 10, 2007, customers will be permitted to upgrade to a higher-speed service provided by the Company, without incurring Termination Charges, given all of the following conditions are met:
 - An upgrade is considered an increase in speed or capacity when comparing EON Service to the new service.
 - The customer must issue a disconnect order for the existing EON Service and place a service order for the new higher-speed service at the same location(s) such that there is no more than 90 days overlap in service. Termination Charges for EON Service at the current location(s) will be waived.
 - The term of the new higher-speed service term must be equal to or greater than the remaining time left on the existing EON service term.
 - The existing EON Service must have been in service for a minimum period of 15 months for a 36 month service term or 18 months for a 60 month service term.

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)

18.10.10.5 Pricing (Cont'd)

B. Termination Charges (Cont'd)

6. Migration to Ultimate Switched Ethernet Service

If the customer migrates from EON Service to Ultimate Switched Ethernet Service, the customer may do so without termination charges, given all of the following conditions are met:

- The customer must issue a disconnect order for their existing EON service and place a service order for Ultimate Switched Ethernet Service. If over-lapping service is required, billing will apply.
- Standard nonrecurring charges to install Ultimate Switched Ethernet Service, if applicable, will apply.
- The term of the new contract must be equal to or greater than the remaining time left on the existing EON contract **and** the Monthly Recurring Charge of the new Ultimate Switched Ethernet Service must be equal to or greater than the Monthly Recurring Charge of the EON Service being replaced.
- The new Ultimate Switched Ethernet Service and the EON service must be billed to the same customer of record at the same location(s).
- The customer's existing EON service must have been in service at least 12 months.
- Migration is contingent on availability of fiber and equipment to serve the location being migrated. Other Special Construction charges, as necessary, may apply.
- If Special Construction charges were applicable to the existing EON service being replaced, and those charges were not already paid, they must be carried forward to the new Ultimate Switched Ethernet Service contract.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 18-398

Section 18 - Local Exchange Access Service

18.10 Wholesale Private Line Services (Cont'd)

18.10.10 Ethernet Optical Metropolitan Area Network (Cont'd)

18.10.10.5 Pricing (Cont'd)

C. Credit Allowances

In case of an interruption to service, a credit allowance for the period of interruption, if not due to the negligence of the customer or the customers end user, shall be developed as follows: No credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100% of the applicable monthly rates.

The Company's failure to provide or maintain services under this tariff shall be excused by force majeure events such as, but not limited to earthquakes, hurricanes, floods, storms, tornadoes, explosions, lightning, power surges or failure, fiber cuts, labor strikes or disputes, as acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God or other circumstances beyond the Company's reasonable control.

D. Cancellation and Deferment of Start of Service Charge

Cancellation charges apply if the service order request is canceled in whole or in part prior to complete installation or start of service. The applicant is responsible for payment of the non-recoverable expenses (consisting of the loss on equipment and facilities installed or in the process of being installed, the installation labor, cost of removal and other expense factors involved) incurred by the Company in connection with the order. Installation is considered to have started when, following receipt of the order, the Company incurs any expense in connection therewith or in preparation therefore which would not otherwise have been incurred. Charges are also applicable for deferment of start of service at the customer's request beyond one month as stated in Section 18.1 of this tariff.

E. Waiver of Non-Recurring Charges

Upon fourteen (14) days notice to the DPUC, the Company may periodically offer promotional campaigns.

Section 18 - Local Exchange Access Service

18.11 Resold Promotional Offerings

A. General

Promotions offered on a retail basis that are greater than 90 days in duration, or provide benefits to the customer which last over 90 days are made available to resellers at wholesale rates pursuant to Section 251 (c) (4) (A) of the Telecommunications Act of 1996 and the Department of Public Utility Commission's Decision in Docket No. 95-06-17.

Upon fourteen (14) days notice to the DPUC, the Company may periodically offer promotional campaigns.

Section 18 - Local Exchange Access Service

18.12 Custom Location Alternative Routing (CLAR)

A. DESCRIPTION

Custom Location Alternate Routing (CLAR) is an Intelligent Network-based service that allows the customer to safeguard against the loss of incoming calls due to circumstances that make the customer's physical work location inaccessible (i.e., disaster, fire, flood, cable cut, etc.). CLAR service allows the customer to develop and maintain alternate routing (contingency) plan(s) that can be activated at their command to reroute incoming calls to predetermined alternate customer locations.

CLAR service provides the customer the ability to develop and test solutions to potential problems before they occur. CLAR allows the customer to exercise their back-up facilities during normal conditions. The service supports up to nine alternate routing plans with a maximum of 10,000 protected telephone numbers.

In addition to disaster routing capabilities, CLAR service also provides the customer the ability to route inbound calls based on customer-defined call traffic management conditions.

CLAR operates across the public network or private facilities. A CLAR plan is subject to review by the Telephone Company in order to determine effects on network capability, capacity and control. All telecommunications services required for rerouting must be in place or subscribed to at the same time as CLAR and are also subject to review by the Telephone Company. The customer may activate CLAR alternate routing plans 24 hours a day, seven days a week.

B. TERMS AND CONDITIONS

1. CLAR service is available where central office facilities and equipment permit.
2. The CLAR customer is responsible for the payment of any applicable station-to-station charges for each call between the central office where the CLAR protected numbers reside and the telephone to which the call is being rerouted.
3. The customer must establish sufficient capacity of facilities at the "forward to" destination to handle the volume of calls being forwarded via CLAR.
4. CLAR is available to CSF, DCOSS, ISDN, PBX and basic exchange business line customers where facilities permit.
5. Customer requested changes to an existing CLAR plan are subject to a charge.

(D)

Section 18 - Local Exchange Access Service

18.12 Custom Location Alternative Routing (CLAR) (Cont'd)

B. TERMS AND CONDITIONS (Cont'd)

6. The services and facilities furnished by the Telephone Company are subject to the terms, conditions and limitations specified herein. The Telephone Company's liability, if any, for a claim or suit made by a customer or by any others for damages associated with the installation, provision, termination, maintenance, repair or restoration of service, shall not exceed an amount equal to the proportionate charge for the service for the period during which the service was affected.
7. Due to network capacity and capability limitations, some blocking of calls in the network may occur, and therefore, all incoming calls may not be routed and terminated to the alternate site. In all cases, the first priority will be to maintain the integrity of the public network.

C. FEATURES

1. Customer Access

CLAR provides a Touch Tone customer interface. Touch Tone access provides the customer's service administrator the ability to activate or deactivate alternate routing plans via a Touch Tone telephone.

2. Calendar Routing

Calendar Routing is an optional feature that allows the customer to develop and maintain a calendar-based routing schedule that will route inbound calls based on customer-defined time-of-day, day-of-week and day-of-year (including holiday) conditions.

3. Percentage Allocation Routing

Percentage Allocation Routing is an optional feature that enables the customer to develop and maintain a routing scheme to route inbound calls based on customer-defined percentage allocations of inbound call traffic, for example 60% of calls are routed according to routing plan 1, and 40% of calls are routed according to routing plan 2.

Section 18 - Local Exchange Access Service

18.13 Abbreviated Dial Plan (ADP)

ABBREVIATED DIAL PLAN

A. GENERAL

1. Abbreviated Dial Plan ("ADP") is available where equipment, features and facilities permit. ADP converts an abbreviated number to the 10-digit number used for direct calls. ADP provides a CSF or DCOSS customer the ability to use an abbreviated dialing plan for calls within Connecticut to in-network and/or out-of-network numbers when the Telephone Company is the intrastate usage provider.
2. In-network numbers are the numbers for stations of CSF or DCOSS system(s) of the Customer's end user or a subsidiary of the Customer's end user. In-network numbers can be dialed and can dial back on an abbreviated basis.
3. Out-of-network numbers can be dialed on an abbreviated basis, but cannot dial back on an abbreviated basis. Out-of-Network numbers must be billed from the same rate center as the CSF or DCOSS system. The total number of out-of-network numbers cannot exceed the sum of the number of CSF or DCOSS stations in use when the ADP feature was established plus the number of CSF or DCOSS stations added to the system(s) at a later date.
4. All stations in a CSF System Dialing Plan must be equipped with the ADP feature, but not all dial plans need to be equipped with the ADP feature. All in-network and out-of-network numbers must be assigned to the CLEC end user.
5. Dialing Plan Formats
 - a. The Extension Dialing Plan uses sequential digits from the seven digit telephone number ("extension number") to identify an in-network or out-of-network number. Typically, the extension number is the last four digits of the telephone number. Each extension number in the dialing plan must be unique.
 - b. The Location Code Dialing Plan uses a leading digit (the "location code") plus an extension number to identify an in-network or out-of-network number. Location code(s) permit duplication of extension numbers.
6. Dial Plan Billing Options
 - a. The Basic Dial Plan option consists of usage charges for both in-network and out-of-network messages.
 - b. The Deluxe Dial Plan option consists of a flat rate for both in-network and out-of-network messages.
 - c. A ADP Change Charge will apply for modifications to the customer's end user's ADP feature such as the addition of new station numbers to the customer's end user's dial plan. A ADP Change Charge will not apply for changing an in-network number to an out-of-network number.

Section 18 - Local Exchange Access Service

18.14 Volume Discount Plan

18.14.1 Complete Volume Discount

A. GENERAL

1. Complete Volume Discount is an optional access and usage volume discount plan for customers' business end users. Customers subscribing to Complete Volume Discount receive monthly discounts for selected services based on the customer's Minimum Annual Revenue Commitment (MARC). Complete Volume Discount requires a local access connection to the Telephone Company network.
2. The following definitions apply to Complete Volume Discount Plan:
 - a. Minimum Annual Revenue Commitment (MARC)
The minimum annual revenue commitment that the customer must commit to, per year, in order to receive the volume discount.
 - b. Contributory Service
Those services for which billed charges count towards achievement of the customer's selected MARC.
 - c. Eligible Services
Those services that are eligible for discounts based on achievement of a specified MARC.

B. REGULATIONS

1. MARC revenue is the sum total of the customer's annual billed charges, for services specified in Complete Volume Discount tariffs, for customer's end user's eligible business accounts located in Connecticut, before discounts are applied.
2. Services contributing towards the MARC include, except as noted below, all regulated services (i.e., monthly recurring revenue, usage revenue, and Other Charges and Credits, including prorated recurring and non-recurring charges.

Exclusions consist of: any service provided by the Telephone Company's affiliates, charges for services provided by any other service provider and billed on behalf of that other service provider, taxes and other fees and surcharges, such as, but not limited to, E-911 and the Connecticut Customer Service Fund (CSF) fee.

Section 18 - Local Exchange Access Service

18.14 Volume Discount Plan (Cont'd)

18.14.1 Complete Volume Discount (Cont'd)

B. REGULATIONS (Cont'd)

3. The Complete Volume Discount plan is available with one, two, three**, or five* year term plans. Customers will be required to sign a Confirmation of Service Order to indicate their term selection.
4. Complete Volume Discount customers who fail to meet their requested MARC level will be billed the difference between the selected MARC and the annual revenue billed.
5. MARC volume discounts apply to the following eligible services: CSF-I, CSF-II and CSF-III, Enhanced Digital Access Service and CT CLEC Call Plan. These services may be found in Section 18 of this tariff.
6. With the exception of a local access connection, Complete Volume Discount customers are not required to purchase any of the MARC contributory services. Tariffed recurring and non-recurring charges apply to the installation and use of these services.
7. Credits will be applied within 2 bill periods following the implementation of the plan in the Company's billing system.

* Five year term plan will no longer be available for new agreements established on or after October 10, 2012.

** Three year term plan will no longer be available for new agreements established on or after October 3, 2013.

Section 18 - Local Exchange Access Service

18.14 Volume Discount Plan (Cont'd)18.14.1 Complete Volume Discount (Cont'd)

B. REGULATIONS (Cont'd)

8. A customer's MARC volume discount may not exceed the following maximums per

plan, per year:

MARC Discount	
Minimum	Maximum
Annual Revenue	Allowable Discount
\$ 2,238	\$ 448
5,222	806
8,952	1,305
13,428	1,828
18,650	2,984
26,110	4,476
37,300	6,714
55,950	9,325
74,600	12,309
93,250	16,412
111,900	17,904
Over 149,200	26,856

9. An eligible Complete Volume Discount customer may include up to, but not exceed, 250 of its end user locations under one Complete Volume Discount plan. A customer may subscribe to only one Complete Volume Discount plan at a time.
10. Except as required by law, a Complete Volume Discount plan is not Transferable to, or may not be assumed by, a customer or customers other than the customer of record without prior written consent of the Company.
11. The customer's term commences the day after the service is "activated" by the Company. The date "activated" shall be the date the order installing the plan is completed in the Company billing system.
12. Individual products and services are subject to the terms and conditions associated with those services.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 18-406

Section 18 - Local Exchange Access Service

18.14 Volume Discount Plan (Cont'd)18.14.1 Complete Volume Discount (Cont'd)

C. RATES AND CHARGES

1. Service ElementsPercent Discount on Eligible Services

<u>Minimum Annual Revenue</u>	<u>Maximum Allowable Discount</u>	<u>1 Year</u>	<u>2 Years</u>	<u>3 Years**</u>	<u>5 Years*</u>
\$ 2,238	\$ 448	2%	3%	4%	5%
5,222	806	3%	4%	5%	6%
8,952	1,305	4%	5%	6%	7%
13,428	1,828	4%	5%	6%	7%
18,650	2,984	5%	6%	7%	8%
26,110	4,476	5%	6%	7%	8%
37,300	6,714	6%	7%	8%	9%
55,950	9,325	7%	8%	9%	10%
74,600	12,309	8%	9%	10%	11%
93,250	16,412	8%	9%	10%	11%
111,900	17,904	9%	10%	11%	12%
Over 149,200	26,856	10%	11%	12%	13%

2. Other Applicable Charges and Payments

Service connection charges are not applicable when establishing or changing to Complete Volume Discount.

* Five year term plan will no longer be available for new agreements established on or after October 10, 2012.

** Three year term plan will no longer be available for new agreements established on or after October 3, 2013.

Section 18 - Local Exchange Access Service

18.14 Volume Discount Plan (Cont'd)18.14.1 Complete Volume Discount (Cont'd)

D. TERMINATION LIABILITY

1. Termination Charge

Customers terminating a Complete Volume Discount plan prior to the expiration of the selected term period are subject to termination charges.

Termination charges are equal to 50% of the MARC multiplied by the number of years remaining in the customer's term period. For a partial year, if the partial year revenue is less than the MARC, the customer is liable for the difference between 50% of the MARC and the actual billed revenue.

Termination liability charges are not applicable if during the Complete Volume Discount term period the customer converts to another Company access or usage plan with a term equal to or greater than the existing Complete Volume Discount plan, and a revenue commitment equal to or greater than the Complete Volume Discount MARC.

2. MARC Downgrade Allowance For Technology Upgrade

Termination liability charges will not apply if, during the term of the Complete Volume Discount agreement the Customer disconnects one or more of the eligible services, and replaces the service(s) with another eligible or contributory service to achieve its MARC. If the customer's annual spending on those services is reduced, by a 50% or greater difference between the customer's current MARC and the next lower MARC as a direct result of the service replacement, the customer may terminate the existing Complete Volume Discount agreement without termination liability provided: a) the customer enters into a new Complete Volume Discount service agreement for a term period which is equal to or greater than the time remaining on their current agreement, and b) the MARC on the new agreement is the next lower MARC. This waiver of charges as a result of replacing contributory services with other contributory services will be allowed only once per customer, per agreement term. Complete Volume Discount \$3,000 MARC service agreements are not eligible.

For purposes of the waiver, "as a direct result" means that the newly installed product(s) must be installed at the same customer service location(s) and in the same relative quantity(ies) as those being displaced. In addition, the product change must constitute the substitution of a functionally equivalent service(s) for the original service(s). It is the Telephone Company's sole determination whether a product change satisfies the requirements for waiver of the termination liability under this provision.

Section 18 - Local Exchange Access Service

18.14. Volume Discount Plan (Cont'd)18.14.1 Complete Volume Discount (Cont'd)

D. TERMINATION LIABILITY (Cont'd)

This MARC Downgrade waiver applies only to the termination liability charges applicable to the Complete Volume Discount agreement. Termination charges may apply on those services being disconnected, and the application of those termination charges are not affected by this waiver. All applicable recurring and non-recurring charges apply to the installation and removal of services. Products and services are subscribed to separately and not as a part of the Complete Volume Discount subscription. As a result of selecting a reduced MARC level, discounts provided under the new Complete Volume Discount agreement may be less than those received under the higher MARC agreement. Discounts for the new agreement will be those applicable to the new MARC level under the Complete Volume Discount tariff in effect at the time the new agreement is executed.

E. SERVICE GUARANTEE

Within 90 days of subscribing to a Complete Volume Discount 2-year, 3-year** or 5-year* term plan, customers may cancel this service without incurring the termination liability charges specified above. Any MARC Volume discounts applied to a customer account during this 90 day time period will, however, be charged back to the customer. This avoidance of termination liability does not apply to customers who terminate other Company toll, access and/or usage commitment products for the purpose of subscribing to Complete Volume Discount.

* Five year term plan will no longer be available for new agreements established on or after October 10, 2012.

** Three year term plan will no longer be available for new agreements established on or after October 3, 2013.

Section 19 - SNET SONET Network Service* (Grandfathered)

19.1 Service Description

SNET SONET Network Service (SSNS) provides dedicated transport utilizing Synchronous Optical Network (SONET) transmission standards. SSNS provides high capacity optical network capabilities to customers requiring network facilities at OC3 (155.52 Mbps) and OC12 (622.08 Mbps) levels. SSNS network elements are provided between two customer premises or between a customer premises and an SNET Central Office Node. At SNET Central Office Nodes, SSNS network elements may be connected to other SSNS network elements or may be connected to Special Access and Switched Access DS3 and DS1 services. Each SNET SONET Network Service must include at least one SNET Node.

Each SNET SONET Network Service will be configured with one working and one protect facility which provides facility redundancy to protect the customer's service. Should a failure occur, the SONET technology will automatically switch the customer's transmission to the dedicated protect facility within 50 milliseconds. SSNS is offered with the Premium Service Maintenance Guarantee, which assures uninterrupted service as specified in 2.12.2G and 2.12.3.

SSNS network elements consist of SONET Local Channels, Central Office Nodes, Central Office Ports, Premises Nodes, Premises Ports and Channel Mileage. The customer has the option of providing the node at the customer premises. When the customer provides the premises node equipment, it must be compatible with SNET network node equipment and must comply with standards specified in GR-253-CORE. SSNS is offered where facilities exist. If it is necessary to construct facilities to satisfy service requests at other locations, it may be provided pursuant to SNET's Special Construction Tariff.

19.2 Technical Information

SSNS technical specifications will conform to standards specified in Section 21 of SNET's Interstate Access Tariff.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 19 - SNET SONET Network Service* (Grandfathered)

19.3 Rate Elements

- A. SONET Local Channel - connects a customer premises to an SNET serving wire center at SONET OC3 and OC12 signal levels.
- B. Channel Mileage - provides transmission facilities between two serving wire centers or between a serving wire center and an SNET Central Office Node at OC3 and OC12 capacity. Channel Mileage consists of two rates: a monthly fixed rate and a monthly per mile rate.

C. Features & FunctionsCentral Office (C.O.) Node

OC12 C.O. Node - provides a SONET OC12 terminal function within an SNET central office which includes add-drop multiplexing (ADM) capability to derive lower capacity ports. The node function can only drop signals that have been mapped within the payload. A port charge is assessed in addition to the node function per service derived.

OC3 C.O. Node - provides a SONET OC3 terminal function within an SNET central office which includes add-drop multiplexing (ADM) capability to derive lower capacity ports. The node function can only drop signals that have been mapped within the payload. A port charge is assessed in addition to the node function per service derived.

C.O. Node Ports

C.O. Node ports provide an interface to derive lower capacity services at a C.O. Node. Ports are available at the following speeds:

- OC3
- STS1
- DS3
- DS1

Type and quantities of ports available per node are only limited by the type of node selected.

Premises Node

OC12 Premises Node - provides the capability to derive lower capacity services for delivery at the customer's premises. The node function can only drop signals that have been mapped within the payload. SNET will place node equipment in common space, under the control of SNET, at or adjacent to the customer's premises. A port charge is assessed in addition to the node function per service delivered.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 19 - SNET SONET Network Service* (Grandfathered)

19.3 Rate Elements (Cont'd)Premises Node (Cont'd)

OC3 Premises Node - provides the capability to derive lower capacity services for delivery at the customer's premises. The node function can only drop signals that have been mapped within the payload. SNET will place node equipment in common space, under the control of SNET, at or adjacent to the customer's premises. A port charge is assessed in addition to the node function per service delivered.

The customer is responsible to provide space and power for Premises Node equipment. Any charges assessed to SNET for space and power to place Premises Node equipment will be billed to the customer.

Premises Node Ports

Premises Node ports provide an interface to derive lower capacity services at a Premises Node. Ports are available at the following speeds:

- OC3
- STS1
- DS3
- DS1

Type and quantities of ports available per node are only limited by the type of node selected.

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 19-4

Section 19 - SNET SONET Network Service* (Grandfathered)

19.4 Rates and Charges

		<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
A. <u>SONET Local Channel</u>			
-	OC3	\$800.00	\$0.00
-	OC12	\$2,000.00	\$0.00
		<u>Monthly Fixed</u>	<u>Monthly Per Mile</u>
B. <u>Channel Mileage</u>			
	<u>Mileage Bands</u>		
-	OC3	0	None
	Over 0	\$900.00	\$175.00
-	OC12	0	None
	Over 0	\$2,000.00	\$440.00
C. <u>Features & Functions</u>			
		<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
<u>Central Office</u>			
<u>(C.O.) Node</u>			
-	OC3	\$900.00	None
-	OC12	\$2,250.00	None
<u>C.O. Node Ports</u>			
-	OC3	\$350.00	None
-	STS1	\$150.00	None
-	DS3	\$150.00	None
-	DS1	\$40.00	None
<u>Premises Node</u>			
-	OC3	\$900.00	None
-	OC12	\$2,250.00	None
<u>Premises Node Ports</u>			
-	OC3	\$350.00	None
-	STS1	\$150.00	None
-	DS3	\$150.00	None
-	DS1	\$40.00	None

* Effective July 31, 2003, SNET SONET Network Service (SSNS) will no longer be available to new customers. There will be no change to existing customers.

Section 20 - Toll Services

20.1 Connecticut CLEC Call Plan Service20.1.1 Service Description

Customers with a Certificate of Public Convenience and Necessity to resell Local Exchange and intrastate toll service in the State of Connecticut are qualified to order Connecticut CLEC Call Plan Service "CT CLEC Call Plan Service". Such Plan is not available, however, to a customer provisioning local exchange service via Unbundled Network Elements ("UNE").

CT CLEC Call Plan Service is available to Certified Local Exchange Carriers "CLECs" for their use in furnishing intra-state toll service to their resale end users within the operating territory of the Telephone Company. A toll message is a communication between an end user calling station and any station bearing the designation of an exchange, or central office outside of the local service area of the calling station. Calls included in this service are those beginning with 1+ and 0+ only.

The CT CLEC Call Plan Service enables CLEC end users to originate a toll call anywhere in operation territory of the Telephone Company.

For 0+ dialing, the customer will be billed the applicable Operator Services Features charge per call in addition to the toll rate set forth in Section 20.1.6 of this tariff.

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For 0- dialing, the customer will be billed the applicable Operator Services Features charge per call in addition to the toll rate set forth in Section 20.5.2 of this tariff.

The Telephone Company will bill the customer for the aggregated total of minutes of use placed by the customer's end user's. Rates for the customer's Business and Residence end user toll minutes are set forth in Section 20.1.6 below. The Telephone Company will provide the customer with the toll call detail for the calls placed. Non-rated call detail for 1+ traffic is provided by electronic transfer six days a week or by magnetic tape or magnetic cartridge monthly. Customers using alternative electronic links must contact the Telephone Company for such arrangements. Operator handled calls (0+ only) will be provided to the customer monthly.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 20-2

Section 20 - Toll Services

20.1 Connecticut CLEC Call Plan Service (Cont'd)

20.1.2 Rates and Charges

Nonrecurring Charge

CLEC Call Plan Service Establishment Charge \$5,000.00

Business End User Rates

Aggregate Monthly Usage

Per Minute of Use Rate

1 - 250,000 minutes of use

\$.057

250,001 - 500,000 minutes of use

\$.054

500,001 and over minutes of use

\$.051

Residential End User Rates

Aggregate Monthly Usage

Per Minute of Use Rate

1 - 250,000 minutes of use

\$.10

250,001 - 500,000 minutes of use

\$.095

500,001 and over minutes of use

\$.090

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 20-3

Section 20 - Toll Services

20.2 Operator Dialed Intrastate Toll Calls

20.2.1 Service Description

When a customer's end user dials zero (0) and requests an Operator to dial and connect an intrastate toll call, the customer will be billed the applicable Operator Services Feature charge per call in addition to the toll rate shown below.

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20.2.2 Rates and Charges

<u>Operator Dialed Intrastate Toll Calls</u>	<u>Per Minute of Use</u>
	\$.09

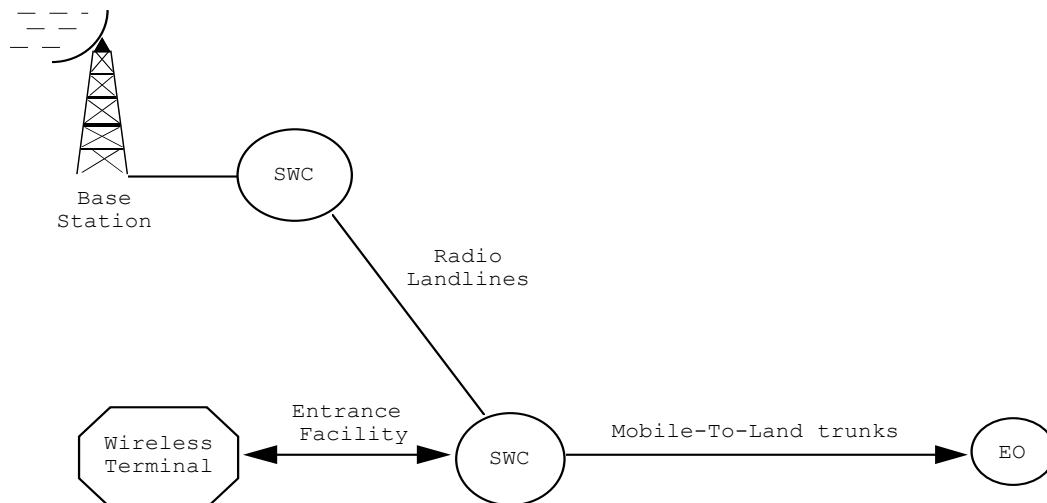
Section 21 - Interconnection Service For Wireless Carriers

21.1 General

This tariff provides (subject to availability) Telephone Company facilities, which enable Mobile Radio Service Carriers (Wireless Carriers), licensed by the Federal Communications Commission under Part 22 and 90 of the FCC regulations, to interconnect with the Company's Public Switched Network (PSN). These interconnection arrangements, which provide Mobile-to-Land service, primarily consist of Entrance Facilities, and Trunk circuits. The rates, terms and conditions for this interconnection arrangement applies to Wireless Carriers for the provision of Wireless Services. In addition, the Telephone Company provides Land-to-Mobile as well as Radio Landline interconnections.

The Telephone Company makes no distinction in this tariff among any Wireless Carrier using this service. Upon request, every Wireless Carrier licensee has the right to interconnect with the Telephone Company's landline network. Where a Wireless Carrier seeks interconnection arrangements different from those offered under this tariff, the Carrier may negotiate with the Telephone Company other interconnection arrangements, which are reasonable and technically suitable for the Carrier's system. Such arrangements will be filed for inclusion in this tariff.

The following diagram depicts a general configuration of a Wireless Carrier system and the interconnecting facilities.



Section 21 - Interconnection Service For Wireless Carriers

21.2 Definitions

Airline Mileage - For the purpose of determining rate distances, a Vertical "V" and Horizontal "H" coordinate system is used. The V-H system consists of a series of coordinates, which represents a theoretical grid of vertical and horizontal lines covering the State of Connecticut.

The location of a central office expressed in latitude and longitude is converted mathematically to its grid location that is V & H coordinates. These coordinates permit calculation of the rate mileage distance between any two-rate centers. Fractional miles are considered as full miles for rating purposes.

Base Station - A Wireless Carrier's transmitter/receiver.

Dedicated NXX Code - The three-digit prefix consisting of 10,000 sequential telephone numbers for the Wireless Carrier's express use in providing Mobile Radio Service.

Designated Tandem Office - A Telephone Company switching office that provides a concentration and distribution function for PSN traffic within the Company's operating territory.

End Office (EO) - A Telephone Company Central Office, which provides local exchange service.

Entrance Facility - A Telephone Company provided private line trunk connecting the Wireless Terminal and its Serving Wire Center.

Point of Termination (POT) - A demarcation point between the Telephone Company and the Wireless Carrier's premises that establishes the technical interface, the test point(s) and the point of operational division of responsibility.

Radio Landlines - Dedicated private line channels which if requested by the Wireless Carrier, will be provided by the Company. These channels connect the Carrier's Wireless Terminal to their Base Station.

Section 21 - Interconnection Service For Wireless Carriers

21.2 Definitions (Cont'd)

Serving Wire Center (SWC) - The Telephone Company End Office which serves, via a private line facility, the Wireless Terminal and Base Station.

Wireless Carrier - A communications carrier licensed under Part 22 and 90 of the Federal Code of Regulation by the Federal Communications Commission to provide Mobile Radio Service within a specified area.

Wireless Terminal - The Wireless Carrier's Switching Office.

21.3 Regulations

The regulations, rates and charges specified herein are specific to Wireless Carriers and are in addition to the regulations contained in Section 2, and other Sections where applicable.

21.3.1 Undertaking of the Telephone Company

- A. Interconnection provided to a Wireless Carrier under this tariff is only for use in conjunction with the Wireless Carrier's provision of cellular, paging, Personal Communications Service (PCS) and ancillary information services as licensed under the rules and regulations of the Department of Public Utility Control (DPUC) and the Federal Communications Commission.
- B. The type of Telephone Company provided channel construction and its routing are at all times determined by the Telephone Company and ownership of such channels shall remain vested in the Company.
- C. The Telephone Company administers the PSN to ensure the provision of acceptable service levels to all telecommunications users of the Telephone Company network services. Generally, service levels are considered acceptable only when all customers are able to establish connections with little or no delay encountered within the Telephone Company network. To ensure acceptable service levels, the Telephone Company maintains the right to apply protective controls (i.e., those actions such as call gapping, which selectively cancel the completion of traffic) over any traffic carried over its network. Generally, such protective measures will only be taken as a result of occurrences such as failure or overload of the Telephone Company or Wireless Carrier facilities, natural disasters, mass calling or national security demands. In the event that protective controls applied by the Telephone Company result in the complete loss of service by the Wireless Carrier, a credit allowance for service interruption will be granted as set forth in 21.3.6 following.

Section 21 - Interconnection Service For Wireless Carriers

21.3 Regulations (Cont'd)

21.3.1 Undertaking of the Telephone Company (Cont'd)

21.3.2 Limitations

- A. The service provided under this tariff may not be assigned or transferred without notification and concurrence of the Telephone Company.
- B. The use and restoration of services shall be in accordance with the Company's Essential Service Guidelines and Part 64, Subpart D Appendix A of the Federal Communications Commission's Rules and Regulations, which specifies the priority system of such activities.

21.3.3 Minimum Period

The minimum period for which services are provided and for which rates and charges are applicable is one month unless specified otherwise.

21.3.4 Liability

- A. The Telephone Company shall be indemnified, defended and held harmless by the Wireless Carrier against any claim, loss or damage arising from the Wireless Carrier's use of services offered under this tariff involving:
 - (1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from any communications;
 - (2) Claims for patent infringement arising from combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by Wireless Carrier;
 - (3) All other claims arising out of any act or omission of the Wireless Carrier in the course of using services provided pursuant to this tariff.
- B. The Telephone Company's failure to provide or maintain services under this tariff shall be excused by such events as labor difficulties, governmental orders, civil commotion, criminal actions taken against the Telephone Company, acts of God and all other circumstances beyond the Telephone Company's reasonable control, subject to the Credit Allowance for a Service Interruption as set forth in 21.3.6 following.

Section 21 - Interconnection Service For Wireless Carriers

21.3.5 Payment of Rates, Charges and Deposits

The Telephone Company shall bill on a current basis all rates and charges incurred by and credits due to the Wireless Carrier under this tariff attributable to services established or discontinued during the preceding month's billing period. The Telephone Company shall bill in advance the rates and charges for all services to be provided during the ensuing billing period except for charges associated with service usage. Such bills are due when rendered. Adjustments for the quantities of services established or discontinued in any billing period will be prorated to the number of days, or major fraction, or days based on a 30-day month.

21.3.6 Credit Allowance for Service Interruption

Credit allowance for service interruption applies to Entrance Facilities, Radio Landlines, and Data Channels as outlined in 2.12.

21.4 Interconnection Service Description

Interconnection service for the Wireless Carriers provides transmission paths to connect a Telephone Company Office (End Office or Designated Tandem) to the Wireless Terminal. Mobile-to-Land Interconnection facilities are generally provided over facilities dedicated to one directional traffic between Telephone Company offices (End Offices or Tandems) and the customer's Wireless Terminal. Two-way Interconnection facilities are available on an Individual Case Basis. In order to use a facility for two-way traffic, the traffic carried in each direction must be between the same Telephone Company office and the customer's wireless terminal. Two way-circuits will be aggregated to T-1 Entrance Facilities in a manner similar to one-way circuits.

- A. Mobile-to-Land Interconnection routes traffic from the Wireless Terminal to the PSN. Mobile-to-Land Interconnection arrangements allow calls from the Wireless Carrier to be connected to any valid office code(s) within the 203 and 860 NPAs, as well as Repair Service, Directory Assistance, Operator Assistance or service provided by Interexchange Carriers, other Wireless Carriers, or Local Exchange Carriers. Transmission and signaling arrangements will be specified by the Wireless Carrier within the limits stated in the transmission and signaling arrangements contained in 21.4.1 following.
- B. Type I Land-to-Mobile Interconnection routes Type I traffic from the PSN to the Wireless Terminal via the End Office in which the wireless telephone number resides. Transmission and signaling arrangements will be specified by the Wireless Carrier within the limits stated in the transmission and signaling arrangements contained in 21.4.1 following.
- C. Type II Land-to-Mobile Interconnection routes Type II traffic from the PSN to the Wireless Terminal via a Designated Tandem. Transmission and signaling arrangements will be specified by the Wireless Carrier within the limits stated in the transmission and signaling arrangements contained in 21.4.1 following.

Section 21 - Interconnection Service For Wireless Carriers

21.4 Interconnection Service Description (Cont'd)

D. Type II B Interconnection provides a high usage connection between a Wireless Terminal and a specific Telephone Company End Office. This will be provided at a customer's request on an Individual Case Basis.

- (1) Type IIB Land-to-Mobile routes traffic from a specific Telephone Company end office to the Wireless Terminal. Only calls originating from valid telephone numbers within the specific end office to Dedicated NXX Codes associated with the Wireless Terminal may be completed via the Type IIB Land-to-Mobile interconnection. Traffic offered to the Type IIB Interconnection, which encounters an "all trunk busy" condition will be final routed via a Type II Land-to-Mobile Local Area Access Interconnection. Transmission and signaling arrangements will be specified by the Wireless Carrier within the limits stated in the transmission and signaling arrangements contained in 21.4.1 following.
- (2) Type IIB Mobile-to-Land routes traffic from the Wireless Terminal to a specific Telephone Company end office. Traffic offered to the Type IIB Interconnection, which encounters an "all trunk busy" condition will be final routed via an alternative Mobile-to-Land Interconnection. Type IIB Mobile-to-Land traffic is routed only to valid telephone numbers served by that specific Telephone Company end office. Type IIB Mobile-to-Land does not provide connection to services such as Directory Assistance, Operator Assistance, Repair Service, 911, or the services of long distance carriers other than any FG-A service, which may be accessed by dialing a directory number within the office providing the Type IIB service. Transmission and signaling arrangements will be specified by the Wireless Carrier within the limits stated in the transmission and signaling arrangements contained in 21.4.1 following.

E. Entrance Facility

The Entrance Facility is a private line channel connecting the Wireless Terminal to its Serving Wire Center. It provides access to the Radio Landlines and the PSN. The Entrance Facility is obtained from Section 4. Transmission and signaling arrangements will be specified by the Wireless Carrier but within the limits stated in the transmission and signaling arrangements contained in 21.4.1 following.

F. Radio Landlines

Radio Landlines are private line channels, which connect the Wireless Terminal's Serving Wire Center to a selected Base Station. Radio Landlines are obtained from Section 4. Transmission and signaling arrangements will be specified by the Wireless Carrier but within the limits stated in the transmission and signaling arrangements contained in 21.4.1 following.

Section 21 - Interconnection Service For Wireless Carriers

21.4 Interconnection Service Description

G. Wireless E911 (Service Description) (Cont'd):

This product allows wireless carriers to provide enhanced 9-1-1 functionality to their customers/constituencies, thereby allowing them to meet the mandates established by the Federal Communications Commission (FCC) in Docket Number 94-102.

The Telephone Company's Wireless 9-1-1 service offering allows wireless carriers to forward wireless caller information which emulates the capabilities of existing "landline" Enhanced 911 service. This service allows wireless subscribers to dial 911 in emergencies, with the wireless subscriber's telephone number and location being displayed at the Public Safety Answering Point (PSAP) station, which is handling the wireless call.

Wireless carriers will be able to purchase emergency service trunks (ESCO) and E-911 trunk ports to be used exclusively for E911 traffic. These trunks carry 911 traffic from the wireless carriers' Mobile Transfer Switching Center (MSC) to the Selective Router located in the Telephone Company's E911 Tandem office. Additionally, the monthly fixed, per mile and nonrecurring direct transport rates for emergency service trunks will apply in accordance with Section 21.7 G of the tariff.

Section 21 - Interconnection Service For Wireless Carriers

21.4 Interconnection Service Description (Cont'd)21.4.1 Channel Transmission and Signaling Arrangements

The channel transmission and signaling arrangement is required for use with the Interconnection Arrangement, Entrance Facility and Radio Landlines to provide the Wireless Carrier's specified transmission and signaling requirements within the parameters stated in 21.4.1 A and B following. The transmission and signaling parameter guidelines are as provided by Bell Communications Research Technical References TR-NPL-000145, TR-EOP-000352, and TR-NWT-000334.

A. Transmission Limits

When ordering private line facilities, the Wireless Carrier must specify the transmission levels per technical publication TR-NWT-000334.

B. Signaling Limits

The Wireless Carrier must specify the following signaling arrangements per technical publication TR-NWT-000334:

- (1) Dial Pulse (DP-10)-Start Signaling
- (2) Wink (Delay Dial or Immediate)
- (3) Dual Tone Multifrequency (DTMF) Signaling
- (4) E&M Signaling Interface - type I or type II
- (5) Multifrequency (MF) Signaling
- (6) Signaling Mode
 - (a) Type DX1 mode, terminal equipment originates on the M Lead.
 - (b) Type DX2 mode, terminal equipment originates on the E Lead.

21.4.2 Conditioning

Data conditioning is furnished for use with Radio Landline data channels only and is restricted to two point channels, which are not arranged for switching. Various forms of data conditioning are available under the terms, rates and conditions as stated in Section 4.

21.4.3 Special Construction

The Telephone Company, upon request, will negotiate special construction requirements. Special Construction charges will be developed on an Individual Case Basis (ICB).

Section 21 - Interconnection Service for Wireless Carriers

21.4 Interconnection Service Description (Cont'd)21.4.4 Special Facilities Routing

The service available under this tariff is provided over such routes and facilities as the Telephone Company may select. Special Facilities Routing is involved when, in order to comply with requirements specified by the Wireless Carrier, the Telephone Company provides facilities in a manner, which includes one or more of the following conditions. Charges for special facilities routing will be an ICB and may include Special Construction procedures.

- A. Routing Diversity - Two or more facilities must be provided over different physical routes.
- B. Avoidance - A service must be provided on a route which avoids specified geographical locations.
- C. Duct Diversity - Two or more facilities must be provided in physically different ducts.

21.5 Telephone Numbers

When telephone numbers are requested by the Wireless Carrier for its service, they will be furnished (subject to availability) as soon as possible after receipt of a written request. See 18.5.6.1 for terms and conditions.

21.5.1 Directory Listings

Individual subscribers of the Wireless Carrier wishing to obtain Directory Listings for their Mobile Unit telephone numbers may order directly from Tariffs Part II of the General Exchange Tariff.

Directory Listing charges will be paid by the individual subscriber.

21.6 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply to Interconnection Services for Wireless Carriers. All rates, charges and regulations for Entrance Facilities and Radio Landlines are referenced to Section 4. All rates, terms, and conditions apply to the Wireless Carriers for the provision of Wireless Services.

21.6.1 Promotional Campaigns

The Company may periodically, upon seven (7) days notice to the DPUC, waive the nonrecurring charges associated with the Company's Wireless Interconnection Service as part of a promotional campaign not to exceed 90 days.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 21-10

Section 21 - Interconnection Service For Wireless Carriers

21.6 Rate Regulations (Cont'd)

21.6.2 Types of Rates and Charges

The Monthly Rates and Nonrecurring Charges are described in 2.11.1 and 2.11.4.

21.6.3 Moves

Moves involve a change in the physical location of a Point of Termination at the Wireless Carrier's premises. Charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

A. Moves Within the Same Building See 2.11.4

B. Moves To A Different Building See 2.11.4

21.7 Rates and Charges

The following rates and charges will apply for Interconnection Service for Wireless Carriers.

With respect to rate elements having minimum and maximum rates, the Telephone Company shall not charge any rate other than the one approved until they have so notified the Department of Public Utility Control at least thirty (30) days prior to the effective date of any change to that rate. Rates charged must be at or between the minimum and maximum rates.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>		
A. <u>Entrance Facilities</u>	*	*		
B. <u>Radio Landlines</u>	*	*		
C. <u>Telephone Numbers</u>	See Section 18			
	<u>Minimum Rate</u>	<u>Maximum Rate</u>	<u>Current Rate</u>	<u>Nonrecurring Charge</u>
<u>k Establishment</u>				see Section 4.3.1 (F)

* All rates and charges associated with Entrance Facilities or Radio Landlines are contained in Section 4.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 21-11

Section 21 - Interconnection Service For Wireless Carriers

21.7 Rates and Charges (Cont'd)

(2) Type I Land-to-Mobile

Nonrecurring Charge

Trunk Establishment

One-way trunk

See Section 4.3.1(F)

Two-way trunk

ICB

(3) Type II Land-to-Mobile (Local Area Access)

Nonrecurring Charge

Trunk Establishment

One-way trunk

See Section 4.3.1(F)

ICB

Two-way trunk

	<u>Minimum Rate</u>	<u>Maximum Rate</u>	<u>Current Rate</u>	<u>Nonrecurring Charge</u>
Land-to-Mobile/ Mobile-to-Land				
<u>Trunk Establishment</u>				
One-way trunk				ICB
Two-way trunk				ICB

* In accordance with 47 CFR Section 20.11 and the FCC's ruling in CC Docket No. 01-92; FCC 05-42 (*T-Mobile Order*), terminating usage charges shall be negotiated as part of an interconnection agreement between Wireless Carriers and Frontier Communications of Connecticut. Prior to the negotiation of an interconnection agreement, but after a request for negotiation for such agreement has been made by a Wireless Carrier or Frontier Communications of Connecticut, Frontier Communications of Connecticut shall assess terminating usage charges calculated in accordance with 47 CFR Section 20.11 for interim rates.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 21-12

Section 21 - Interconnection Service For Wireless Carriers

21.7 Rates and Charges (Cont'd)E. Connecticut Service Fund

The Connecticut Service Fund Surcharge is a monthly rate that recovers the Company's costs of the Lifeline programs. This rate is applied to all wireless telephone numbers ordered out of this tariff. This rate will be reviewed annually.

Monthly Rate

Per Individual Telephone Number	\$.0082

F. Special Networks(1) Customer 99-WCSA-003:Springwich Cellular Partnership

This Special Network provides the wireless customer with digital facilities at the following rates and charges for a term of 60 months, effective June 10, 1999.

<u>Description</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
DS1 Local Digital Channel (each)	\$138.00	\$615.81
DS1 Inter Office Mileage (per mile)	\$20.65	N/A
DS3 Local Channel (each)	\$1,490.00	\$1,775.37
DS3 Inter Office Mileage (per mile)	\$98.92	N/A
DS3-DS1 Multiplexer (each)	\$532.00	N/A
DS1-VG Multiplexer (each)	\$153.75	N/A

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 21-13

Section 21 - Interconnection Service For Wireless Carriers

21.7 Rates and Charges (Cont'd)

G. Wireless E911:

<u>Description</u>	<u>Nonrecurring Rate</u>	<u>Monthly Rate</u>	(T)

ESCO Trunking	See Section 18.5.4		(D)

<u>Description</u>	<u>Nonrecurring Rate</u>	<u>Monthly Rate</u>	(T)

E911 Trunk Port	N/A	\$14.39	

(D)
(D)
(D)

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.1 General Description

OCN Point-to-Point service is designed to provide the customer with a custom point to point linear network. The Optical Point-to-Point service will offer a highly reliable transport service that is designed to connect customer locations and SBC wire centers in a linear (point to point) configuration. Large volumes of information can be transported between two locations in a dedicated, high-bandwidth optical path. Specifically, the OCN Point-to-Point services can handle voice, data, video, imaging, Internet traffic and other advanced broadband applications.

- (A) OCN Point-to-Point channels provide high speed synchronous optical fiber-based full duplex data transmission capabilities between two points. These services provide optical data transmission with the following characteristics:
- (1) OC-3/OC-3c provides channels operating at the terminating bit rate of 155.52 Mbps;
 - (2) OC-12/OC-12c provides channels operating at the terminating bit rate of 622.08 Mbps;
 - (3) OC-48/OC-48c provides channels operating at the terminating bit rate of 2488.32 Mbps;
 - (4) OC-192 provides channels operating at the terminating bit rate of 9953.28 Mbps;
- (B) OC-3, OC-12, OC-48 and OC-192 channels may be used to connect:
- (1) a customer designated premises to another customer designated premises, without the add/drop multiplexing capability.
 - (2) a customer designated premises to a Telephone Company location where add/drop multiplexing and add/drop functions are performed.
 - (3) a Dedicated SONET Ring Service node in a Telephone Company location to a customer designated premises or a Collocator's physical or virtual collocation*--this serving arrangement is referred to as (SMOA) SONET Mapped Optical Arrangement or to a Telephone Company location where add/drop multiplexing and add/drop functions are performed, and this serving arrangement is referred to as (SMUX) SMOA with a MUX.
 - (4) two Dedicated SONET Facility nodes in the same or different Telephone Company location--this serving arrangement is referred to as (DIN) Dedicated Interconnection Network.

Optical Transmission paths for OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192 differentiated by bit rate and the quality of transmission is as delineated by the Optical Interface definitions in the appropriate technical reference publication(s) for the service ordered.

* This connection is not available for OC-192 channels.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.1 General Description (Cont'd)

OC-3, OC-12, and OC-48 may be connected by (1) using the appropriate OC-3, OC-12 or OC-48 add/drop multiplexer (mux) along with the add/drop function to a DS1 and/or DS3 at suitably equipped wire centers, or (2), by using the full bandwidth premises to premises.

Where appropriate facilities are not immediately available, negotiated intervals or special construction charges may apply. The customer is responsible via the ordering process to identify what STS signal configuration is to be contained in each OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192/OC-192c service connection and each STS-1, STS-3 and/or STS-12 payload content. This information is needed for routing and connection purposes in the network. OCN Point-to-Point does not extend the SONET data communication channel overhead across the network interface to the customer's equipment.

OC-3, OC-12, OC-48 and OC-192 based on customer requirements can be configured in any of the following ways:

Ethernet over SONET (EoS)

EoS allows the efficient transport of Ethernet frames using SONET. Ethernet Optical Add/Drop capability will be available in bandwidths up to 1 Gbps on an OC-N Point-to-Point. As SONET bandwidths will be preset, the customer will be unable to transmit data beyond these preset SONET bandwidths. Only Single-Mode Fiber is available in the Central Office. The EoS line rates are based on the theoretical SONET payload line rates as per GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.

(C) OC-3

- (1) three STS-1 (Synchronous Transport Signals) channels which each contain:
 - (a) one DS3 that is STS-1 mapped; or
 - (b) up to 28 asynchronous DS1s that are VT-mapped; or
 - (c) an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the network;
 - (d) 1 Gbps Ethernet STS-1, 1-2v;
- (2) a single concatenated STS-3C channel.

(D) OC-12

- (1) twelve STS-1 channels which each contain:
 - (a) one DS3 that is STS-1 mapped; or
 - (b) up to 28 asynchronous DS1s that are VT-mapped; or
 - (c) an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the network;
 - (d) 1 Gbps Ethernet STS-1, 1-9v; or
 - (e) 1 Gbps Ethernet STS-1, 1-2v;

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.1 General Description (Cont'd)(D) OC-12 (Cont'd)

- (2) four concatenated STS-3C channels.
- (3) from one to three concatenated STS-3C channels, mixed with from three to nine STS-1 channels subject to utilization of the total OC-12 capacity.
- (4) a single concatenated STS-12Cs channels.

(E) OC-48

- (1) forty-eight STS-1 channels which each contain:
 - (a) one DS3 that is STS-1 mapped; or
 - (b) up to 28 asynchronous DS1s that are VT-mapped; or
 - (c) an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the network; or
 - (d) 1 Gbps Ethernet STS-1 1-21v; or
 - (e) 1 Gbps Ethernet STS-3c 1-7v;
- (2) sixteen concatenated STS-3C channels.
- (3) from one to fifteen concatenated STS-3C channels, mixed with from three to forty-five STS-1 channels subject to utilization of the total OC-48 capacity.
- (4) four concatenated STS-12Cs channels.
- (5) from one to three concatenated STS-12C channels, mixed with from twelve to thirty-six STS-1 channels subject to utilization of the total OC-48 capacity.
- (6) from one to three concatenated STS-12C channels, mixed with from four to twelve concatenated STS-3C channels, also mixed with from three to thirty-three STS-1 channels subject to utilization of the total OC-48 capacity.
- (7) from one to three concatenated STS-12C channels, mixed with from one to eleven concatenated STS-3C channels, also mixed with from three to thirty-three STS-1 channels, subject to utilization of the total OC-48 capacity.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.1 General Description (Cont'd)(F) OC-192

- (1) One hundred ninety two interleaved STS-1 Channels which each contain:
 - (a) One DS3 that is STS-1 mapped; or
 - (b) Up to 28 asynchronous DS1s that are VT-mapped; or
 - (c) An STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an Add/Drop Function to DS1 or DS3 services within the network;
 - (d) 1 Gbps Ethernet STS-1 1-21v; or
 - (e) 1 Gbps Ethernet STS-3c 1-7v
- (2) Sixty four interleaved concatenated STS-3 channels.
- (3) From one to sixty three interleaved concatenated STS-3c channels, mixed with from three to one hundred eighty nine STS-1 channels, subject to utilization of the total STS-192 capacity.
- (4) Sixteen interleaved concatenated STS-12c channels.
- (5) From one to fifteen interleaved concatenated STS-12c channels mixed with from twelve to one hundred eighty STS-1 channels, subject to utilization of the total STS-192 capacity.
- (6) From one to fifteen interleaved concatenated STS-12c channels, mixed with from four to sixty concatenated STS-3c channels subject to utilization of the total STS-192 capacity.
- (7) From one to fifteen interleaved concatenated STS-12c channels, mixed from one to fifty nine concatenated STS-3c channels, also mixed with from three to one hundred seventy seven STS-1 channels, subject to utilization of the total STS-192 capacity.
- (8) Four interleaved concatenated STS-48c channels.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.1 General Description (Cont'd)(F) OC-192 (Cont'd)

- (9) From one to three interleaved concatenated STS-48c channels, mixed with from forty-eight to one hundred forty four STS-1 Channels, subject to utilization of the total STS-192 capacity.
- (10) From one to three interleaved concatenated STS-48c channels, mixed with from sixteen to forty eight STS-3c channels, subject to utilization of the total STS-192 capacity.
- (11) From one to three interleaved concatenated STS-48c channels, mixed with from four to twelve STS-12c channels, subject to utilization of the total STS-192 capacity.
- (12) From one to three interleaved concatenated STS-48c channels, mixed with from one to forty seven concatenated STS-3c channels, also mixed with from three to one hundred forty one STS-1 channels, subject to utilization of the total STS-192 capacity.
- (13) From one to three interleaved concatenated STS-48c channels, mixed with from one to eleven concatenated STS-12c channels, also mixed with from twelve to one hundred thirty two STS-1 channels, subject to utilization of the total STS-192 capacity.
- (14) From one to three interleaved concatenated STS-48 channels, mixed with from one to eleven concatenated STS-12c channels, also mixed with from four to forty four concatenated STS-3c channels, subject to utilization of the total STS-192 capacity.
- (15) From one to three interleaved concatenated STS-48 channels, mixed with from one to eleven concatenated STS-12c channels, also mixed with from three to one hundred twenty nine STS-1 channels, subject to utilization for the total STS-192 capacity.
- (16) A single concatenated STS-192d channel.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations

This section contains the specific regulations governing the rates and charges, which may apply to OCN Point-to-Point Service. The rates and charges in effect at the time the OCN Point-to-Point Service is installed and accepted by the customer are the rates and charges, which will be billed to the customer requesting the service. The rates and charges in effect at the time may not be the same as those rates and charges in effect at the time the customer requests the service.

If the Telephone Company initiates rate changes resulting in a decrease of rates for an existing OC-3, OC-12 or OC-48 service with a 1, 3 or 5 year billing period, those rate changes will be passed along to the customer. Rate changes resulting in an increase of rates for an existing OC-3, OC-12 or OC-48 service with a 1, 3 or 5* year billing period or for an existing OC-192 service with a 3 or 5* year billing period will not exceed the original rate for that selected billing period. Rate changes may occur as a result of F.C.C. action.

The four basic rate categories for OCN Point-to-Point Service are Local Distribution Channel, Interoffice Transport, Collocation Transport and Optional Features and Functions.

(A) Local Distribution Channel (LDC)

The Local Distribution Channel (LDC) (same as Channel Termination (CT)) rate category provides for the communications path between a customer designated premise and the serving wire center of that premise. LDCs are only offered without SBC provided and maintained terminal ADM equipment at the customers designated premises and will hand-off basic 2-fiber or 4-fiber optic cables, depending upon the optional feature (as ordered). One LDC is applied per customer designated premises at which the channel is terminated even if collocation exists.

OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192/OC-192c LDCs provide point-to-point optical interconnection between the Telephone Company Serving Wire Center (SWC) and the customer premises.

The customer is required to provide ADM that is compatible with the Telephone Company central office ADM as is described in Technical Publication GR-253-CORE.

All LDCs comprising a channel must have the same terminating bit rate unless multiplexing is performed at a Telephone Company Hub location.

- * All term plans for OCN Point-to-Point Service, which are established or renewed after December 16, 2013, for term lengths, which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(B) Interoffice Transport

Interoffice Transport facilities comprised of Fixed and Per Mile rate elements, provide the transmission paths between: Serving Wire Centers associated with two customer designated premises; between a Serving Wire Center associated with a customer premises and a Telephone Company Hub location; Serving Wire Center associated with a customer designated premises and an international boundary point; or two Telephone Company hubs. Four interoffice transport types are available.

OC-3/OC-3c LDCs are interconnected to OC-3/OC-3c transport.
OC-12/OC-12c LDCs are interconnected to OC-12/OC-12c transport.
OC-48/OC-48c LDCs are interconnected to OC-48/OC-48c transport.
OC-192/OC-192c LDCs are interconnected to OC-192 transport.

In addition, interoffice transport can be connected between wire centers with Add/Drop multiplexing at a lower OC-N speed than the LDCs, if the transport is between a lower speed Add/Drop Function and:

- another lower speed Add/Drop Function;
- another lower speed Local Distribution Channel;
- a lower speed Dedicated Ring Port;

All of the above terminations must be the same speed as the transport.

(C) Collocation Transport

Collocation Transport provides for the transmission facilities arrangement between two customer collocation premises and a Telephone Company Central Office frame located in the Telephone Company Central Office.

There are two components of Collocation Transport.

(1) Inter/Intra Office Fixed

Inter/Intra office fixed rate element provides for the electronic equipment required to terminate a channel between two collocation arrangements located either in the same central office (intra) or in two separate central offices (inter).

(2) Inter Office Per Mile

The Per Mile charge provides for the electronic equipment and facilities necessary to provide the interoffice transport between two collocation arrangements.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(C) Collocation Transport (Cont'd)

The following types of collocation transport are:

OC-3/OC-3c
OC-12/OC-12c
OC-48/OC-48c
OC-192/OC-192c

In addition to one collocation transport charge, one EISCC charge, of the same speed, from Section 14.6 (A) 1 will apply per collocation arrangement.

(D) Optional Features and Functions

The following optional features and functions are available:

Central Office Features which consist of:

- Add/drop multiplexing (ADM)
- Add/drop function (ADM function)

OC-N Network Survivability, which consist of:

- 1+1 Protection
- 1+1 Protection with Cable Survivability
- 1+1 Protection with Route Survivability

Regenerators which consist of:

- OC-48
- OC-192

Major Optional Features and Functions which consist of:

- Connection Arrangements
- Shared Network Arrangement

(1) Add/Drop Multiplexing

Add/Drop multiplexing is an arrangement in a Telephone Company central office that allows non-concatenated OC-3, OC-12 or OC-48 channels operating at a terminating speed of 155.52 Mbps, 622.08 Mbps or 2488.32 Mbps, or 9953.28 Mps respectively, to add/drop a lower speed channel by using this feature along with the add/drop function as stated in (2) following. The mix of multiplexing signals cannot exceed the maximum bandwidth of the higher speed OCN circuit terminating on the Central Office multiplexer.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(1) Add/Drop Multiplexing (Cont'd)

For example, OC-3 add/drop multiplexing at a Telephone Company wire center will provide the capability to support the full add/drop function capacity of OC-3 Service bandwidth with up to 3 DS3 add/drop functions or equivalently up to 3 groups of 28 DS1 add/drop functions.

At the time of ordering any of the following basic rate categories, the customer must provide configuration information for the entire multiplexing option at the time the order for service is placed. In addition, concatenated services OC-3, OC-12 or OC-48 cannot be ordered under the central office feature section as the Telephone Company cannot convert individual STS-1 signals to concatenated (non-channelized) channels.

OC-12 add/drop multiplexing at a Telephone Company wire center will provide the capability to support the full add/drop function capacity of OC-12 service bandwidth with up to 4 OC-3 add/drop functions or up to twelve DS3 add/drop functions or equivalent combinations of OC-3 and DS3 add/drop functions.

If asynchronous DS1 ports are required on a OC-12 OCN circuit, then the OC-3 add/drop multiplexing feature and associated DS1 add/drop function must be ordered in addition to the OC-12 add/drop multiplexing feature.

OC-48 add/drop multiplexing at a Telephone Company wire center will provide the capability to support the full add/drop function capacity of OC-48 service bandwidth with up to 4 OC-12 add/drop functions or up to forty-eight DS3 add/drop functions or equivalent combination of OC-3 and DS3 add/drop functions. If DS1's are required for the OC-12 then the preceding guidelines established can be followed.

OC-192 add/drop multiplexing at a Telephone Company wire center will provide the capability to support the full add/drop function capacity of OC-192 service bandwidth. Up to 4 OC-48 add/drop functions or up to 16 OC-12 add/drop functions or up to 64 OC-3 add/drop functions or equivalent combinations of OC-48, OC-12 and OC-3 add/drop functions are supported.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(2) Add/Drop Function

The OC-3, OC-12, OC-48 and OC-192 are able to add or drop lower level signals as shown in the matrix following. The add/drop function is offered at a circuit level. For example, if a customer wants to drop one DS3 signal from an OC-12 service, they would pay one add/drop function charge for the DS3 and the initial OC-12 add/drop multiplexing charge.

An OC-3, OC-12, OC-48 and OC-192 are only able to add or drop the services that have been identified by payload content (mapping) within the bandwidth. DS1 mapped STS-1 signals are only able to connect to a DS1, and a DS3 mapped STS-1 signals are only able to connect to a DS3. If a change is required it may be accomplished by the customer's CPE or through the current asynchronous environment for multiplexing of DS3 and DS1 services stated in Section 7.3.4.

Once the options in (1) and (2) preceding are specified by the customer they cannot be used with OC-3, OC-12, OC-48 or OC-192 configured by the customer to contain a single non-channelized (concatenated) STS-3C or STS-12C signal, respectively.

Ethernet over SONET (EoS) is supported by an Add/Drop function. The quantities allowed will depend upon the VT or STS bandwidth assigned over the port.

	ADD/DROP Function					
	<u>DS1</u>	<u>DS3</u>	<u>OC-3</u>	<u>OC-12</u>	<u>OC-48</u>	<u>100 Base Lx</u>
OC-192	No	No	Yes	Yes	Yes	Yes
OC-48	No	Yes	Yes	Yes	N/A	Yes
OC-12	No	Yes	Yes	N/A	N/A	Yes
OC-3	Yes	Yes	N/A	N/A	N/A	Yes

(3) OCN Point-to-Point Network Survivability

There are 4 components of OCN Network Survivability:

- (a) 1+1 Protection
- (b) 1+1 Protection with Cable Survivability
- (c) 1+1 Protection with Route Survivability
- (d) 1+1 Protection with Diversity

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(3) OCN Point-to-Point Network Survivability (Cont'd)(a) 1+1 Protection

This option provides two identical fiber pairs that are placed in the same cable and follows the same route. If the working pair fails, traffic shifts to the protect fiber pair. This option does not protect against a fiber cable cut.

The protected OC-3/OC-3c, OC-12/OC-12c OC-48/OC-48c and OC-192/OC-192c Services are offered with four fibers in the same cable and the protection card is activated when this option is ordered. This will allow customers to order protection if their CPE can accommodate it.

(b) 1+1 Protection with Cable Survivability*

With this option, the working fiber pairs and the protect fiber pairs are located in two separate cables within the same conduit. If the working fiber pair cable experiences damages or a fiber cut, traffic will switch to the protect fiber pair in a separate cable. These cables are located in the same conduit, if the conduit is cut, there is no protection.

This option will provide 1+1 protection and additional loop survivability with the working fiber pair and protect fiber pair placed in separate cables within the same conduit.

(c) 1+1 Protection with Route Survivability*

This option will provide 1+1 protection and offer additional protection from fiber cable cuts by routing the working fiber pair via the primary route and the protected fiber pair via a physically diverse alternate route. The protected fiber will be charged on a distance sensitive basis, in addition to the protection optical charge and will be based on quarter route miles, from the customer premises to the serving wire center.

This is the only option that will assure 100 percent availability of the service if dual entrances have been purchased. Any service interruption will result in a credit equal to one month's bill for the circuit involved.

* Not available for OCN service originating and terminating.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(4) OCN Point-to-Point Network Survivability(c) 1+1 Protection with Route Survivability (Cont'd)

If the interruption occurs on a Local Distribution Channel without this option, normal terms and conditions for out of service credits as stated in 2.12 preceding will apply. An interruption period will start when an inoperative service is reported to the Telephone Company and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element. All other terms and conditions for Credit Allowances as stated in 2.12 preceding, will apply.

Prior to confirming an order for service, the Telephone Company will provide a proposed route diagram to the customer. The diagram will include the number of quarter route miles and method used to support the number needed to provide the alternate route. In order to avoid compromising Route Survivability information, the Telephone Company will provide this information only to the ordering customer.

Installation of the 1+1 protection with Route Survivability option will not begin until the customer has accepted the proposed routing by the Telephone Company.

(d) 1+1 Protection with Diversity

This option will provide end-to-end diversity from A-Z for the second like service. It requires 1+1 Protection with Route Survivability for each customer premises or Local Distribution Channel (LDC). For the inter-office portion, the 1+1 Protection with Diversity rate will cover any additional air-line mileage between serving wire centers.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(4) OCN Point-to-Point Network Survivability

This is the only option that will assure 100% availability from end-to-end of the service. Any service interruption of both services at the same time will result in a credit of one month's bill for the second circuit. If the interruption occurs on a section of the service where commonality has been identified to the customer, normal terms and conditions for out of service credits, as stated in 2.12, preceding, will apply. An interruption period will start when an inoperative service is reported to the Telephone Company, and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element.

All other terms and conditions for Credit Allowances, as stated in 2.12, preceding, will apply.

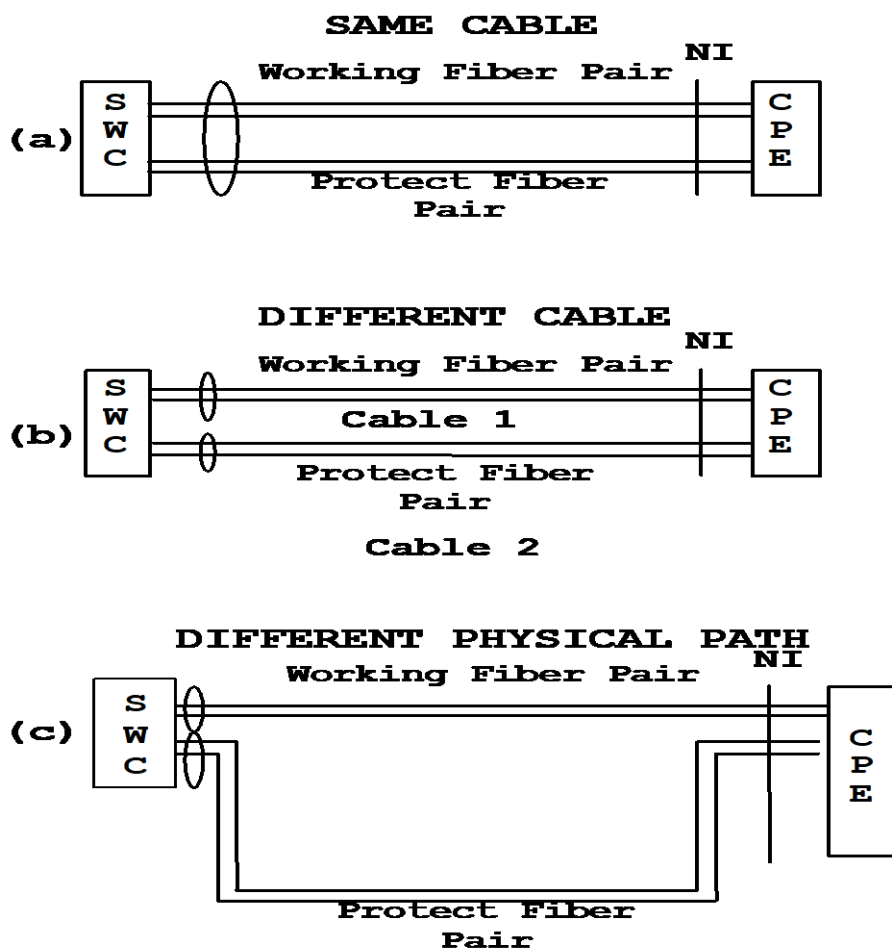
Prior to confirming an order for service, the Telephone Company will provide a proposed route diagram to the customer. The diagram will include the number of quarter route miles and method used to support the number needed to provide the alternate route. In order to avoid compromising Route Survivability information, the Telephone Company will provide this information only to the ordering customer.

Installation of the 1+1 Protection with Diversity option will not begin until the customer has accepted the proposed routing by the Telephone Company.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(3) OCN Point-to-Point Network Survivability (Cont'd)

The following diagrams provide an example of (a), (b) and (c) and (d) above:

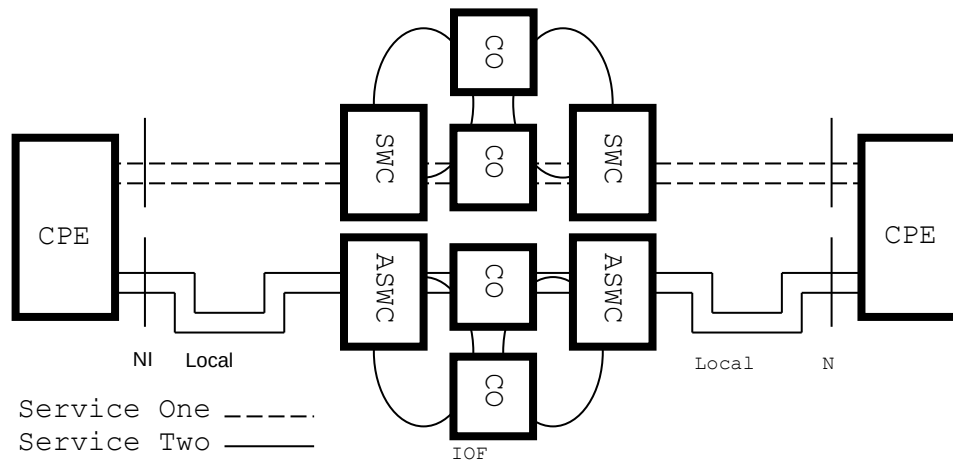


Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(3) OCN Point-to-Point Network Survivability (Cont'd)

Diagram (d):

OC-N PTP Survivability with Diversity (Two Circuits Diverse E-E, same locations)



Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(4) Point-to-Point OC-48 and OC-192 Regenerator

Regenerators provide essential detection and retransmission of SONET Optical 2488.32 Mbps and 9953.28 Mbps signals between customer premises. Regenerators will only be provided as required by the Telephone Company when actual fiber facility distances between customer designated premises and/or central office locations exceed design limits (typically 25 to 30 miles). Regenerators will be located exclusively in Telephone Company central offices.

(5) Connection Arrangement(a) Shared Network Arrangement

- A Shared Network Arrangement is a service offering that enables a customer ("Service User") to connect subtending services to the multiplexed OC-3, OC-12 or OC-48 service of another customer (the "Host Subscriber"), with the Telephone Company maintaining separate billing for each. Each customer will be billed for those rate elements associated with their own portion of the service configuration. Under no circumstances will the rates or charges for individual rate elements be split. This offering is limited to service configurations where a Service User obtains either subtending DS3 or DS1 from a Host's multiplexed OC-3 service or an OC-3 service from a Host's multiplexed OC-12 service or an OC-12 service from a Hosts' multiplexed OC-48 service.
- Under the Shared Network Arrangement, the Telephone Company may share record information with the Host subscriber pertaining to the services of other users of the shared network. Such disclosure will be under the sole discretion of the Telephone Company and is necessary to perform billing reconciliation and/or other functions required in connection with maintaining account records.
- A nonrecurring charge, only, will apply to the Shared Network Arrangement.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(6) Network Channel Interfaces

The network channel interfaces define the bit rates that are available for OC-3/OC-3c, OC-12/OC-12c and OC-48/OC-48c and OC-192/OC-192c services operating at speeds of 155.52 Mbps, 622.08 Mbps, 2488.32 Mbps and 9953.28 Mbps. Network Channel interfaces and codes are set forth in Technical Reference SR-STIS-000307.

(E) Monthly Extension Rates

At the expiration of the TPP term and if the customer wishes to continue OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192/OC-192c, the customer may select a new TPP at the prevailing TPP rate.

If a customer does not wish to renew the TPP at the expiration of the term, the Monthly Extension Rates will apply until the customer cancels or renews the service with a new TPP term. Monthly Extension Rates are not available as an individual TPP and are to be used as a default applied at the end of a regular 1 year (12 month), 3 year (36 month), and 5 year (60 month)* TPP.

(F) Nonrecurring Charges

One-time charges that apply for a specific work activity, e.g., installation, rearrangements, moves, etc., as described in Section 2.11.5.

(G) Minimum Periods

The Minimum Period for the OCN Point-to-Point Service is twelve (12) months for a one year Term Pricing Plan (TPP), thirty-six months (36) for a three year TPP, and sixty (60) months for a five** year TPP. *In the event OCN Point-to-Point Service is terminated prior to completion of the minimum period, termination liabilities as described in 22.2(I) will apply.

* As of May 18, 2005, the One Year Minimum period for OC-192 OCN Point-to-Point Service will no longer be available to new customers. There will be no change to existing customers.

**All term plans for OCN Point-to-Point Service, which are established or renewed after December 16, 2013, for term lengths, which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(H) Term Pricing Plans (TPP)

(1) General Description

Term Pricing Plans (TPP) are available on Local Distribution Channels, Interoffice Transport, Collocation Transport and Add/Drop Multiplexing rate elements. The TPP stabilizes rates for OCN Point-to-Point Service for the specified period of time. The following TPPs are available:

- One Year (12 Month) TPP, OC-3, OC-12 and OC-48
- Three Year (36 Month) TPP, OC-3, OC-12 and OC-48 and OC-192, or
- Five Year (60 Month) TPP OC-3, OC-12, OC-48 and OC-192*

(2) Modifications

When additional like-speed OCN Point-to-Point Service circuits are purchased, the customer may include the additional circuits in an existing TPP if:

- The customer renegotiates their TPP for a period of time equal to or greater than the time remaining on the existing TPP;
- The circuits are the same speed; and
- The circuits are located between the same customer designated premises.

(3) Renewals

At the end of a TPP period, the customer must select one of the following options within one month prior to the expiration date:

- a. Renew the service for a one, three, or five year* TPP as provided in this tariff;
- b. Elect to disconnect the service upon expiration of the billing period; or
- c. Continue the service on a monthly basis at the current monthly extension rates.

All services under an existing TPP that are not renewed within the period stated above will revert to Option (3)c above and be billed at the current monthly extension rates.

* All term plans for OCN Point-to-Point Service, which are established or renewed after December 16, 2013, for term lengths which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(H) Term Pricing Plans (TPP) (Cont'd)(4) Conversions

If there is at least one month remaining on an existing 3 year OCN Point-to-Point TPP, the customer may convert the service to a higher term OCN Point-to-Point TPP without termination liability and, at the time of the access order to convert, retain the service for the period remaining on the higher term OCN Point-to-Point TPP. No retroactive TPP discounts will apply prior to the order date.

For example; a customer with an existing 3 Year OCN Point-to-Point TPP with 11 months remaining elects to convert to a 5 Year* OCN Point-to-Point TPP. At the time of the order, the customer will begin paying the 5 year* TPP rate for the remaining period of 2 years and 11 months (35 months) on the new TPP.

(5) Transitioning from Other Special Access Services to OCN Point-to-Point

The customer may, at any time, move other Telephone Company Special Access Services to an OCN Point-to-Point service as long as the minimum billing period has been completed for the other Special Access service that transitions to OCN Point-to-Point service. Charges for the transition will be the nonrecurring charges for the installation of the new OCN Point-to-Point rate elements as listed in Section 22.3 (Rates and Charges) following, created by the transition. No other charges, such as Service Facility Moves will be applicable to such transitions. The relevant Telephone Company tariff sections for the services, if applicable for the Special Access Services being transitioned from, will govern termination charges in question.

* All term plans for OCN Point-to-Point Service, which are established or renewed after December 16, 2013, for term lengths, which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(I) Termination Liability

Customer requesting termination of service prior to the expiration date of the OCN Point-to-Point TPP will be liable for a termination charge. The termination charge for all TPP terms with an Optical Interface, will be calculated as follows:

<u>Billing Period</u>	<u>Termination Percentage</u>
1, 3, or 5* years	50%

The termination liability is calculated as follows:

Monthly recurring rate	X	Months remaining in billing	X	Termination percentage

Example:

An OCN Point-to-Point customer with a \$20,000 monthly rate terminates service after 2 years with 1 year (12 months) remaining in a 3 year TPP. The termination liability would be calculated as:

$$\$20,000 \times 12 \times .50 = \$120,000 \text{ Termination Liability}$$

An OCN Point-to-Point termination charge will not apply under the following conditions and circumstances:

1. Moves as set forth under "Moves" without decreasing number of OCN PTP circuits
2. Modifications of services as described in the tariff
3. Conversions to other special access service if
 - a. service is same or higher
 - b. billing period same or greater
 - c. billing period revenue for the special access service is greater than or equal to the OCN PTP billing period revenue.

(J) Moves

Moves involve a change in the physical location of one of the following:

- Point of Termination at the customer premises; or
- Customer's premises.

Move charges are dependent upon the type of move requested by the customer.

(1) Moves within the same building

When the move of the Point of Termination is to a new location within the same customer premises, the move will be treated as an extension of access service facilities as described in Section 2.11.4.

* All term plans for OCN Point-to-Point Service, which are established or renewed after December 16, 2013, for term lengths, which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(J) Moves (Cont'd)(2) Moves to a different building

Moves to a different customer premises will be treated as a discontinuance and start of service as described in Section 2.11.4.

(3) Service Rearrangement

Service Rearrangements are changes to existing (installed) services which do not result in either (1) a change in the minimum period requirements or (2) a change in the physical location of the point of termination at a customer designated premises as described in Section 2.11.4.

(K) Mileage Measurement

The application of distance sensitive rates requires the determination of the airline distance between a serving wire Center (SWC) and an end office or two or more serving wire center (SWC) locations as described in Section 2.11.4.

(L) Modification of Access Service

The customer may request a modification of an access order at any time prior to notification by the Telephone Company that service is available for the customer's use. 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 order modification, the Telephone Company will schedule a new service date. All charges for access order modifications will apply on a per order, per occurrence basis as described in Section 5.4.

(M) Shared Use

Shared use occurs when Special Access Service and Switched Access Service are provided over the same Wideband Analog or DS1 or DS3 facilities or SONET based services through a common interface.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(M) Shared Use (Cont'd)

The facility will be ordered, provided and rated as Special Access Service (e.g., Local Distribution Channel, DS3 Service Packages, DS3 Service Channels, Channel Mileage Terminations and Channel Mileage, as appropriate, and Multiplexing).

The nonrecurring charge that applies when the Shared Use Facility is installed will be the nonrecurring charge associated with the installation of the appropriate Special Access Wideband Analog or DS1 or DS3 facility or SONET based service. Individual service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the Shared Use Facility. Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for providing Switched Access Transport Service from the office where multiplexing occurs to either an end office or an access tandem.

(N) Jointly Provided Service

Jointly provided service is also referred to a "meet-point billing" arrangements. The service consists of one end of an OCN Point-to-Point circuit located in one exchange telephone company operating territory and the other end of the service located in another exchange telephone company operating territory.

(O) Ordering Options and Conditions

The ordering options and conditions sets forth the regulations and order related charges for ordering Access Service as described in Section 5.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.2 Rate Regulations (Cont'd)(P) Upgrade to OCN Point-to-Point from lower speeds

Customers with three or five year* OCN Point-to-Point TPPs may at any time upgrade OCN Point-to-Point service (e.g., OC-12 to OC-48) without incurring the Termination Liability charge, providing the following criteria are met:

- The customer subscribes to a Term Pricing Plan period that is equal to, or greater than 36 months;*
- The expiration date for the new Term Pricing Plan period is beyond the end of the original Term Pricing Plan period;
- No lapse in service occurs;
- 100% of any waived or unamortized nonrecurring charges will apply, when applicable;
- The monthly rates for the new service(s) will be those rates in effect at the time the new service(s) is/are installed;
- The new service is provided between the same customer locations and with the same customer of record as the disconnected service; and
- The billed monthly recurring revenue for the new service is equal to or greater than the billed monthly recurring revenue remaining in the service being converted.

* All term plans for OCN Point-to-Point Service, which are established or renewed after December 16, 2013, for term lengths which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 22-24

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.3 Rates and Charges(A) OC-3/OC-3c

	<u>1 Year</u>	<u>3 Year</u>	<u>5 Year**</u>	<u>Mo. Ext.</u>
(1) <u>Local</u> <u>Distribution</u> <u>Channel</u> - Per Point of Termination	\$2,100.00	\$1,700.00	\$1,300.00	\$2,275.00
(2) <u>Interoffice</u> <u>Transport</u> Mileage - Fixed	\$1,100.00	\$975.00	\$886.00	\$1,550.00
- Per Mile	\$260.00	\$260.00	\$220.00	\$350.00
(3) <u>Collocation</u> <u>Transport</u> Transport Facilities between Collocation Arrangements - Fixed	\$1,100.00	\$975.00	\$886.00	\$1,550.00
- Per Mile	\$260.00	\$260.00	\$220.00	\$350.00
(4) <u>Optional</u> <u>Features and</u> <u>Functions</u> (a) OC-3 Add/Drop Multiplexing* - Per Arrangement	\$1,500.00	\$1,200.00	\$950.00	\$1,650.00
(b) Add/Drop Function - Per DS3	Monthly \$150.00	Nonrecurring Charge \$0		

*Concatenated services cannot be multiplexed.

**All term plans for OCN Point-to-Point Service, which are established or renewed after December 16, 2013, for term lengths which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 22-25

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.3 Rates and Charges (Cont'd)

(A) OC-3/OC-3c (Cont'd)

	<u>Monthly</u>	<u>Nonrecurring Charge</u>
(4) <u>Optional Features and Functions</u> (Cont'd)		
(b) <u>Add/Drop Function</u> (Cont'd)		
- Per DS1	\$55.00	\$0
- Per 1000BaseLX	\$500.00	\$0
(c) <u>1+1 Protection</u>		
- Per OC-3/OC-3c Local Distribution Channel	\$300.00	\$0
(d) <u>1+1 Protection with Cable Survivability</u>		
- Per OC-3/OC-3c Local Distribution Channel	\$300.00	\$500.00
(e) <u>1+1 Protection with Route Survivability</u>		
- Per OC-3/OC-3c Local Distribution Channel	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)	
- Per Quarter Route Mile	\$50.00	\$0

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 22-26

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.3 Rates and Charges (Cont'd)

(A) OC-3/OC-3c (Cont'd)

	<u>Monthly</u>	<u>Nonrecurring Charge</u>
(4) <u>Optional Features and Functions</u> (Cont'd)		
(f) <u>Shared Network Arrangement</u>		
- Processing Charge per Service Order	\$0	\$30.00
(g) <u>1+1 Protection with Diversity*</u>		
- Per OC-3/OC-3c Local Distribution Channel	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)	
- Per Quarter Route Mile	\$50.00	\$0.00
- Per OC-3/OC-3c	\$200.00	\$0.00

(5) Moves (OC-3/OC-3c)

(a) Moves within the same building

See Section 2.11.4, preceding for rates and charges.

(b) Moves to a different building

See Section 2.11.4, preceding for rates and charges.

(c) Service Rearrangement

See Section 2.11.4, preceding for rates and charges.

* The 1+1 Protection with Route Survivability is required for each end of the second service.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 22-27

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.3 Rates and Charges (Cont'd)

(B) OC-12/OC-12c

	<u>1 Year</u>	<u>3 Year</u>	<u>5 Year**</u>	<u>Mo. Ext.</u>
(1) <u>Local</u> <u>Distribution</u> <u>Channel</u> - Per Point of Termination	\$4,800.00	\$4,000.00	\$2,890.00	\$5,250.00
(2) <u>Interoffice</u> <u>Transport</u> Mileage - Fixed	\$3,600.00	\$2,925.00	\$2,250.00	\$4,100.00
- Per Mile	\$260.00	\$260.00	\$220.00	\$350.00
(3) <u>Collocation</u> <u>Transport</u> Transport Facilities between Collocation Arrangements - Fixed	\$3,600.00	\$2,925.00	\$2,250.00	\$4,100.00
- Per Mile	\$260.00	\$260.00	\$220.00	\$350.00
(4) <u>Optional</u> <u>Features and</u> <u>Functions</u> (a) OC-12 Add/Drop Multiplexing* - Per Arrangement	\$3,200.00	\$2,800.00	\$2,100.00	\$3,575.00
(b) Add/Drop Function - Per OC3	<u>Monthly</u> \$250.00	<u>Nonrecurring Charge</u> \$0		

* Concatenated services cannot be multiplexed.

**All term plans for OCN Point-to-Point Service, which are established or renewed after December 16, 2013, for term lengths which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.3 Rates and Charges (Cont'd)(B) OC-12/OC-12c (Cont'd)

	<u>Monthly</u>	<u>Nonrecurring Charge</u>
(4) <u>Optional Features and Functions</u> (Cont'd)		
(b) <u>Add/Drop Function</u> (Cont'd)		
- Per DS3	\$150.00	\$0
- Per 1000BaseLX	\$500.00	\$0
(c) <u>1+1 Protection</u>		
- Per OC-12/OC-12c Local Distribution Channel	\$400.00	\$0
(d) <u>1+1 Protection with Cable Survivability</u>		
- Per OC-12/OC-12c Local Distribution Channel	\$400.00	\$600.00
(e) <u>1+1 Protection with Route Survivability</u>		
- Per OC-12/OC-12c Local Distribution Channel	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)	
- Per Quarter Route Mile	\$100.00	\$0

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 22-29

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.3 Rates and Charges (Cont'd)(B) OC-12/OC-12c (Cont'd)

	<u>Monthly</u>	<u>Nonrecurring Charge</u>
(4) <u>Optional Features and Functions</u> (Cont'd)		
(f) <u>Shared Network Arrangement</u>		
- Processing Charge per Service Order	\$0	\$30.00
(g) <u>1+1 Protection with Diversity*</u>		
- Per OC-12/OC-12c Local Distribution Channel	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)	
- Per Quarter Route Mile	\$100.00	\$0.00
- Per OC-12/OC-12c	\$300.00	\$0.00
(5) <u>Moves (OC-12/OC-12c)</u>		
(a) <u>Moves within the same building</u>		
See Section 2.11.4, preceding for rates and charges.		
(b) <u>Moves to a different building</u>		
See Section 2.11.4, preceding for rates and charges.		
(c) <u>Service Rearrangement</u>		
See Section 2.11.4, preceding for rates and charges.		

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 22-30

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.3 Rates and Charges (Cont'd)

(C) OC-48/OC-48c

	<u>1 Year</u>	<u>3 Year</u>	<u>5 Year**</u>	<u>Mo. Ext.</u>
(1) <u>Local</u> <u>Distribution</u> <u>Channel</u> - Per Point of Termination	\$11,400.00	\$9,800.00	\$6,680.00	\$12,250.00
(2) <u>Interoffice</u> <u>Transport</u> Mileage - Fixed	\$6,700.00	\$5,625.00	\$4,500.00	\$7,875.00
- Per Mile	\$300.00	\$260.00	\$220.00	\$350.00
(3) <u>Collocation</u> <u>Transport</u> Transport Facilities between Collocation Arrangements - Fixed	\$6,700.00	\$5,625.00	\$4,500.00	\$7,875.00
- Per Mile	\$300.00	\$260.00	\$220.00	\$350.00
(4) <u>Optional</u> <u>Features and</u> <u>Functions</u> (a) OC-48 Add/Drop Multiplexing* - Per Arrangement	\$5,550.00	\$4,625.00	\$3,700.00	\$6,375.00
(b) Add/Drop Function - Per OC-12	<u>Monthly</u> \$625.00	<u>Nonrecurring Charge</u> \$0		

* Concatenated services cannot be multiplexed.

**All term plans for OCN Point-to-Point Service, which are established or renewed after December 16, 2013, for term lengths which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 22-31

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.3 Rates and Charges (Cont'd)

(C) OC-48/OC-48c (Cont'd)

	<u>Monthly</u>	<u>Nonrecurring Charge</u>
(4) <u>Optional Features and Functions</u> (Cont'd)		
(b) <u>Add/Drop Function</u> (Cont'd)		
- Per OC-3	\$250.00	\$0
- Per DS3	\$150.00	\$0
- Per 1000BaseLX	\$500.00	\$0
(c) <u>1+1 Protection</u>		
- Per OC-48 Local Distribution Channel	\$1,200.00	\$0
(d) <u>1+1 Protection with Cable Survivability</u>		
- Per OC-48 Local Distribution Channel	\$1,200.00	\$700.00
(e) <u>1+1 Protection with Route Survivability</u>		
- Per OC-48 Local Distribution Channel	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)	
- Per Quarter Route Mile	\$125.00	\$0

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.3 Rates and Charges (Cont'd)(C) OC-48/OC-48c (Cont'd)

	<u>Monthly</u>	<u>Nonrecurring Charge</u>
(4) <u>Optional Features and Functions</u> (Cont'd)		
(f) <u>Point- to-Point OC-48 Regenerator</u>		
- Each	\$5,500.00	\$0
(g) <u>Shared Network Arrangement</u>		
- Processing Charge per Service Order	\$0	\$30.00
(h) <u>1+1 Protection with Diversity*</u>		
- Per OC-48/OC-48c Local Distribution Channel	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)	
- Per Quarter Route Mile	\$125.00	\$0.00
- Per OC-48/OC-48c	\$700.00	\$0.00

(5) Moves (OC-48)(a) Moves within the same building

See Section 2.11.4, preceding for rates and charges.

(b) Moves to a different building

See Section 2.11.4, preceding for rates and charges.

(c) Service Rearrangement

See Section 2.11.4, preceding for rates and charges.

* The 1+1 Protection with Route Survivability is required for each end of the second service.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 22-33

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.3 Rates and Charges (Cont'd)(D) OC-192/OC-192c

	<u>3 Year</u>	<u>5 Year**</u>	<u>Mo. Ext.</u>
(1) <u>Local</u> <u>Distribution</u> <u>Channel</u> - Per Point of Termination	\$29,400.00	\$21,000.00	\$36,000.00
(2) <u>Interoffice</u> <u>Transport</u> Mileage - Fixed - Per Mile	\$16,875.00 \$360.00	\$13,500.00 \$300.00	\$23,625.00 \$450.00
(3) <u>Collocation</u> <u>Transport</u> Transport Facilities between Collocation Arrangements - Fixed - Per Mile	\$16,875.00 \$360.00	\$13,500.00 \$300.00	\$23,625.00 \$450.00
(4) <u>Optional</u> <u>Features and</u> <u>Functions</u> (a) OC-192 Add/Drop Multiplexing* - Per Arrangement	\$12,000.00	\$9,600.00	\$16,800.00
(b) Add/Drop Function - Per OC-48 - Per 1000BaseLX	\$1,800.00 \$500.00		\$0 \$0

Nonrecurring
Charge

* Concatenated services cannot be multiplexed.

** All term plans for OCN Point-to-Point Service, which are established or renewed after December 16, 2013, for term lengths which are scheduled to expire at any time after December 31, 2017, will instead expire on December 31, 2017. All such services existing on or after December 31, 2017, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 22-34

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.3 Rates and Charges (Cont'd)

	<u>Monthly</u>	<u>Nonrecurring Charge</u>
(4) <u>Optional Features and Functions</u> (Cont'd)		
(b) Add/Drop Function (Cont'd)		
- Per OC-12	\$625.00	\$0
- Per OC-3	\$250.00	\$0
(c) <u>1+1 Protection</u>		
- Per OC-192/OC-192c Local Distribution Channel	\$2,700.00	\$0
(d) <u>1+1 Protection with Cable Survivability</u>		
- Per OC-192/OC-192c Local Distribution Channel	\$2,700.00	\$800.00
(e) <u>1+1 Protection with Route Survivability*</u>		
- Per OC-192/OC-192c Local Distribution Channel	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)	
- Per Quarter Route Mile	\$150.00	\$0
(f) <u>Point-to-Point OC-192 Regenerator</u>		
- each	\$11,000.00	\$0
(g) <u>1+1 Protection with Diversity**</u>		
- Per OC-192/OC-192c Local Distribution Channel	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)	
- Per Quarter Route Mile	\$150.00	\$0
- Per OC-192/ OC-192c	\$1,200.00	\$0

* Not available for OCN service originating and terminating within a Telephone Company location.

** The 1+1 Protection with Route Survivability is required for each end of the second service.

Section 22 - Optical Carrier Network (OCN) Point-to-Point Service

22.3 Rates and Charges (Cont'd)(D) OC-192/OC-192c (Cont'd)(5) Moves (OC-192/OC-192c)

- (a) Moves within the same building
See Section 2.11.4, preceding for rates and charges.
- (b) Moves to a different building
See Section 2.11.4, preceding for rates and charges.
- (c) Service Rearrangement
See Section 2.11.4, preceding for rates and charges.

(E) Installation and Rearrangement Charges

	Administrative Charge, per Order	Design and Central Office Connection Charge, per circuit	Customer Connection Charge, per termination
OC-3/OC-3c	\$60.00	\$375.00	\$450.00
OC-12/OC-12c	60.00	375.00	450.00
OC-48/OC-48c	60.00	500.00	600.00
OC-192	60.00	2,250.00	600.00
Ethernet 100 Base	60.00		
Ethernet 1000 Base	60.00		

Section 23 - Basic Switched Ethernet Service ² - Grandfathered

(D)

23.1 Service Description(A) Basic Service Description

Basic Switched Ethernet Service offers networking capabilities utilizing Optical Ethernet, which is the use of Ethernet LAN packets running over optical fiber within or as access to a service provider's network. Basic Switched Ethernet Service provides an integrated service consisting of fiber transport connected to an Ethernet device capable of switching. Basic Switched Ethernet Service provides dedicated bandwidth ranging from 5 Mbps up to 1 Gbps. Customers may connect to the service using a router, bridge or switch. Customers that are connecting to Basic Switched Ethernet service in the Telephone Company's Central Office must follow the terms and conditions as stated in Section 14 of the tariff.

Basic Switched Ethernet Service supports a logical point-to-point, point to multi-point or multi-point to multi-point configuration and enables the customer to connect two or more locations together when utilizing a point-to-point or point-to-multipoint configuration, and a minimum of three or more locations when utilizing a multipoint-to-multipoint configuration¹ within the same LATA or Metropolitan Area Network (MAN) as if they were segments on the same LAN. Basic Switched Ethernet Service supports full duplex communication.

Basic Switched Ethernet Service will be available in the Connecticut LATA 920. To the extent a customer would like to purchase Basic Switched Ethernet Service where the necessary facilities to provide Basic Switched Ethernet Service have not been deployed, the customer can request special construction for this service with Section 10.1 of the tariff.

Basic Switched Ethernet Service provides the customer the capability to connect to the Telephone Company's network, where facilities have been deployed, via one of the following standard network interfaces as described in Section 23.1(B) and (D):

- (i) 10/100 Mbps Base T
- (ii) 1 Gbps Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX)

Basic Switched Ethernet Service includes the port from and connection to the Ethernet network, Committed Information Rate (CIR) and the Ethernet Virtual Connections (EVC).

¹ This regulation only applies to service ordered or purchased after 8/31/2007.

² This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)(A) Basic Service Description (Cont'd)

Basic Switched Ethernet Service will be offered as follows:

Basic Connection: The Basic Switched Ethernet Service Basic Connection provides the customer a switched, logical point-to-point connection and point to multipoint connection between the customer's locations using a physical connection to the Ethernet network, and virtual connections through the Ethernet network.

Basic Plus Connection: The Basic Switched Ethernet Service Basic Plus Connection provides the customer a switched, logical point-to-point, point to and/or multipoint to multipoint connection between the customer's locations using a physical connection to the Ethernet network, and virtual connections through the Ethernet network.

Committed Information Rate (CIR): The customer must select CIR and at least one EVC to enable service.

CIR usage will have the following Grades of Service selection:

Bronze: Intended for data applications with more tolerance for delay and/or data applications that are lower in priority, i.e., LAN traffic. Service parameters associated with this Grade of Service are PDR and Latency. Latency is defined as the amount of time necessary for a typical frame to traverse the Ethernet network. Latency is measured by averaging sample measurements taken during a calendar month from Network Terminating Equipment (NTE) to NTE to which the customer ports are attached and is measured when the network is available for use by the customers.

Silver: Supports applications that require minimal loss and low latency variation (jitter). The service parameters associated with this Grade of Service are PDR, Latency and Jitter. Jitter is calculated as the delay variance of the packets transported across the network or the delta between two consecutive packets and is measured when the network is available for use by the customer.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)

(B) Service Provisioning

(1) Manner of Provisioning

- (a) Access into the Telephone Company's network must conform to industry standards and specifications as described in technical publications Network Equipment Design Requirements (SBC-TP76200MP) and Ethernet Standards for the SBC Local Exchange Companies (SBC-TP76412).
- (b) The Telephone Company will provision up to and including the Network Terminating Equipment (NTE), which is on the Telephone Company's side of the demarcation point. This location will be at each customer's premises, unless specified otherwise and agreed to by the Telephone Company.
- (c) NTE installed by the Telephone Company on the customer's premises shall remain the property of the Telephone Company. The customer or user may not rearrange, disconnect, remove, attempt to repair, remote test or interface with any network equipment installed by the Telephone Company without prior written consent of the Telephone Company.
- (d) The customer shall be responsible for obtaining permission for the Telephone Company's agents or employees to enter the customer's premises at a mutually agreed upon time for the purpose of installing, inspecting, repairing, or removing (upon termination of the service) the equipment of the Telephone Company.

(2) Limitations

- (a) Basic Switched Ethernet Service is only available within the same Local Access Transport Areas (LATAs).
- (b) The Telephone Company shall not be responsible for error correction. Error correction is the responsibility of the customer's Basic Switched Ethernet Service compatible CPE.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)(B) Service Provisioning (Cont'd)(2) Limitations (Cont'd)

- (c) The selected CIR bandwidth usage may not exceed the physical bandwidth/speed of that port. If a customer orders 1 Gbps of CIR on a single port, the Telephone Company reserves the right to use up to 10% of bandwidth for traffic management.
- (d) Basic Switched Ethernet Service does not allow for oversubscription. The total bandwidth (speed sum of the EVCs) on a single port cannot exceed the selected CIR usage of that port.
- (e) The Telephone Company shall not be responsible for installation, operation, maintenance, or adapting Basic Switched Ethernet Service to the technological requirements of any specific CPE.
- (f) If a customer connects to the Ethernet network using a bridge or switch, only 50 MAC addresses will be initially available per port. Additional addresses may be purchased in blocks of 50 at an additional charge, with a limit of 100 MAC addresses total per port. The rates are described in Section 23.2(D), Rates and Charges.
- (g) Basic Switched Ethernet Service which requires a cross-connect in a Telephone Company central office, is only available with a 1 Gbps connection.
- (h) Data exiting the network through the customer port or ports is excluded from SLA calculations to the extent that it exceeds the CIR for those ports.
- (i) The Telephone Company will use controls to limit the amount of multicast and broadcast traffic to protect the Basic Switched Ethernet Service network against traffic storms. The maximum throughput of multicast traffic will be set at 1 Mbps per customer port for multipoint-to-multipoint service. There is no restriction on point-to-point or point-to-multipoint multicast traffic. The maximum throughput of broadcast traffic will be set at 200 packets per second per port for multipoint-to-multipoint service and 10 Mbps per port for point-to-point and point-to-multipoint service. Packets dropped by traffic controls will be excluded from SLA calculations. The Telephone Company recommends that customers enable controls for multicast, broadcast, and unknown unicast traffic within the customer network(s).

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 23-5Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)(B) Service Provisioning (Cont'd)(3) Customer Interface Options

Interface	Handoff	Bandwidth Limit	Distance Limit
10/100 Mbps Base T	Copper	100 Mbps	100 M
1000 Base SX	Fiber	1 Gbps	550 M
1000 Base LX/LH	Fiber	1 Gbps	550 M - 10 Km
1000 Base ZX	Fiber	1 Gbps	70 Km

(C) Service Level Agreements (SLAs)

The Telephone Company is committed to maintain Network Availability of 99.95% per month, including the local loop which equates to less than 21.6 minutes of downtime per month, excluding maintenance windows.

Network Availability is calculated as the percentage of time that the Ethernet network is capable of accepting and delivering customer data during the measurement period. The calculation for Network Availability for a given month is as follows:

Network Availability = (24 hours x days in month x 60 x number of customer sites - network outage time) / 24 hours x days in month x 60 x number of customer sites)

The Telephone Company will meet the Network Availability, given the following terms and conditions:

- (i) The customer must notify the Telephone Company when the service parameters within the calendar month fall below (or above) the committed level.
- (ii) The customer must request a service credit within 45 days after the end of the month when the failure occurred.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)(C) Service Level Agreements (SLAs) (Cont'd)

Upon verification by the Telephone Company that the actual service performance for that parameter was less than the committed level, the customer will be provided a service credit equal to 10% of the monthly recurring charge for that service parameter for all affected ports.

(1) Grade of Service Guarantees

Grade of Service guarantees will exist for Basic Switched Ethernet Service if the Telephone Company fails to meet service parameters, such as Latency, PDR and Jitter, defined for each Grade of Service, given the following terms and conditions:

- (i) The customer must notify the Telephone Company when the service parameters within the calendar month fall below (or above) the committed level.
- (ii) The customer must request a service credit within 45 days after the end of the month when the failure occurred.
- (iii) Upon verification by the Company that the actual service performance for that parameter was less than the committed level, the Telephone Company has one month to correct the problem.
- (iv) If after one month, the service performance for that parameter is still less than the committed level, the customer will be provided a service credit equal to 25% of the monthly recurring charge for that service parameter for all affected ports.

(a) Packet Delivery Rate (PDR) Guarantee

The PDR guarantee is a percentage of total traffic from source Network Terminating Equipment (NTE) to the destination NTE to which the customer port is attached.

Bronze PDR = 99.5%

Silver PDR = 99.9%

Packet delivery is measured by averaging sample measurements taken during a calendar month from NTE to NTE to which the customer ports are attached when the Basic Switched Ethernet Service network is available for use by the customer.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)(C) Service Level Agreements (SLAs) (Cont'd)(1) Grade of Service Guarantees (Cont'd)(b) Latency

The Telephone Company is committed to maintain delay across the Telephone Company's network at no more than 25-35 ms (50-70 ms roundtrip) depending on grade of service for packets 1500 bytes or less.

Bronze Latency = 35ms one way (70ms roundtrip)

Silver Latency = 25ms one way (50ms roundtrip)

Latency is measured by averaging sample measurements taken during a calendar month between NTE to which the customer ports are attached when the Basic Switched Ethernet Service network is available for use.

(c) Jitter

Applicable only to the Silver Grade of Service, Basic Switched Ethernet Service is committed to maintain a jitter of less than 15 ms one-way end-to-end (including the local loop) within the Telephone Company's Ethernet network.

Jitter is measured by averaging sample measurements taken during a calendar month between NTE to which the customer ports are attached when the Basic Switched Ethernet Service network is available for use by the customer.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)(C) Service Level Agreements (SLAs) (Cont'd)(2) Allowance for Service Interruptions

The allowance for service interruption will apply as specified in Section 2.12.

(a) When A Credit Allowance Does Not Apply

No credit allowance will be made for:

- (i) Interruptions caused by the negligence of the Customer;
- (ii) Interruptions of a service due to the failure of equipment or systems provided by the Customer or parties other than the Telephone Company;
- (iii) Interruptions of a service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated;
- (iv) Interruptions of a 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;
- (v) No credit allowances will apply during a Telephone Company work stoppage;
- (vi) No credit allowance due to governmental orders, civil commotions, criminal actions taken against the Telephone Company, acts of God and other circumstances beyond the Telephone Company's reasonable control.

(3) SLA Regulations

- (a) SLAs will be offered at no charge to all customers with term agreements of 1 year or more. Month-to-month customers will continue to receive credits as described in Section 2.12.
- (b) SLAs will apply to all connection types.
- (c) SLA credits will not exceed full monthly charges for affected network elements.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)(C) Service Level Agreements (SLAs) (Cont'd)(4) SLA Exclusions

The Telephone Company will be excluded from providing any Service Level Agreement credits should any of the following conditions occur:

- (a) Force major events such as, but not limited to an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes. Loss or damage resulting from any cause beyond the Telephone Company's reasonable control such as acts of war, civil disturbances, acts of civil or military authorities or public enemy.
- (b) All SLAs are guaranteed end-to-end (hand-off at the customer demarcation to hand-off at the customer demarcation, including the local loop). The failures of any components beyond the local facility including the Network Interface (NI), the CSU/DSU/Channel band/Extended Demarcation are excluded from SLA calculation.
- (c) Data Loss during the Telephone Company's schedule maintenance window.
- (d) Data exceeding subscribed CIR.
- (e) Failures attributed to facilities or equipment provided by customer or its contractors, equipment vendors, another local exchange carrier or inter-exchange carrier.

(D) Basic Switched Ethernet Service Configuration

The customer must order Basic Switched Ethernet Service via a Basic Switched Ethernet Service standard interface as described in the following:

- (i) 10/100 Mbps Base T - a copper handoff with a bandwidth limitation of 100 Mbps.
- (ii) Gbps Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX) - a fiber handoff with a bandwidth limitation of 1 Gbps.

The customer must select a Committed Information Rate (CIR) and one (1) Ethernet Virtual Connection (EVC) to enable service. The bandwidth usage (CIR) selected by the customer must be in place for at least 30 days before an increase or decrease in the bandwidth can be requested.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 23 - Basic Switched Ethernet Service ³ - Grandfathered

(D)

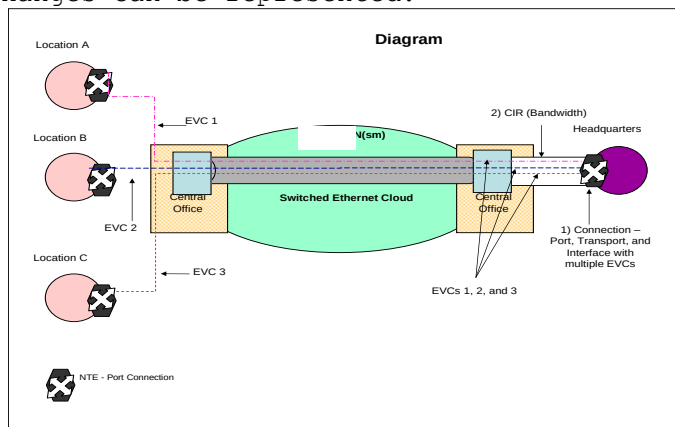
23.1 Service Description (Cont'd)(D) Basic Switched Ethernet Service Configuration (Cont'd)

The customer will have the option to order Bronze or Silver Grades of Service (GoS). Network Terminating Equipment (NTE) will be placed at the customer's premises or Telephone Company central office as part of the Basic Switched Ethernet Service.

- (iii) A total of 8 EVCs may be configured per 10/100 Mbps port.
- (iv) A total of 64 EVCs may be configured per Basic 1 Gbps port.
- (v) A total of 7 EVCs may be configured per Basic Plus 10/100 Mbps port.
- (vi) A total of 63 EVCs may be configured per Basic Plus 1 Gbps

When EVCs are ordered, the customer must designate the portion of the CIR bandwidth assigned to each EVC. The CIR bandwidth for the EVCs range from 5 Mbps to 1000 Mbps in 1 Mbps increments, EVC's will be prioritized as Bronze or Silver. The originating and terminating ports must both have a CIR with Silver GoS for the EVC between the two ports to be prioritized with a Silver GoS. For point-to-point and point-to-multipoint connections, EVCs can be set in 1 Mbps increments from 5 Mbps to 600 Mbps.¹ For multipoint-to-multipoint connections, EVCs can be set in 1 Mbps increments from 5 Mbps to 1 Gbps.

The aggregate assigned Committed Information Rate (CIR) across all Ethernet Virtual Connections (EVCs) between any two customer connections cannot exceed 600 Mbps per Basic or Basic Plus Connection. The customer EVC order will designate the GoS of the CIR assigned connection and may not be higher than the GoS CIR assigned to any of the connecting ports.² An EVC must be in service for at least 30 days before any changes can be requested. An EVC must be in service for at least 30 days before any changes can be represented.



¹ Effective 08/31/07, 1000 Mbps EVCs for point-to-point and point-to-multipoint are limited to existing customers at existing locations.

² This regulation only applies to service ordered or purchased after 08/31/07.

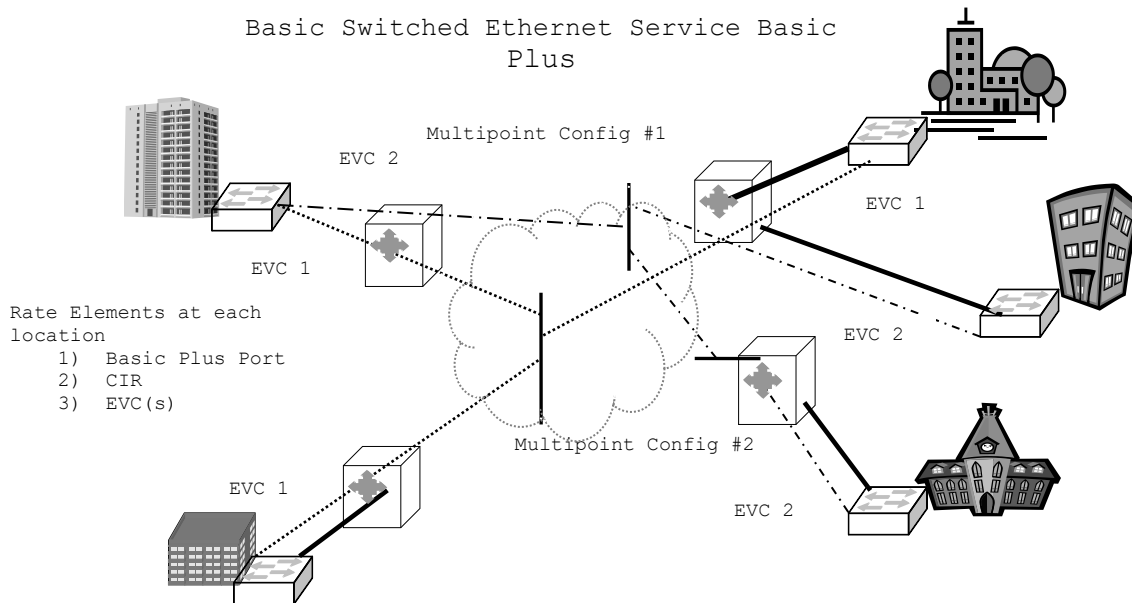
³ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)(D) Basic Switched Ethernet Service Configuration (Cont'd)

The service above has a port at each location (Basic Plus). Each Basic Plus port has a Committed Information Rate (CIR) that must be equal to or greater than the sum of the Ethernet Virtual Connections (EVCs) on that port. Basic Plus service can facilitate Point-to-Point, Point-to-Multipoint, or Multipoint-to-Multipoint as shown above. EVC1 and EVC2 represents Basic Plus Multipoint-to-Multipoint configurations, illustrating that each port in a multipoint configuration can transmit traffic to all other locations on the same multipoint configuration. Point-to-Point is a dedicated connection between two ports. Point to Multipoint is multiple point-to-point connections between several different ports. Multipoint-to-Multipoint is a connection between multiple designated ports on the Basic Switched Ethernet Service network.

(E) Responsibility of the Customer

The customer is responsible for providing the compatible CPE to be used for the connection to the Basic Switched Ethernet Service. The Customer is responsible for notifying the Telephone Company of any interruption in service.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)(F) Rate Elements

- (1) Connection - The Basic Switched Ethernet Service connection rate elements are assessed per interface at 10/100 Mbps or 1 Gbps Ethernet. The Basic Switched Ethernet Service connection rate element includes the physical connection from the Customer demarc to the Ethernet network.
- (2) Committed Information Rate (CIR) is bandwidth assessed per speed increments ranging from 10 Mbps to 1 Gbps and is available in Bronze and Silver Grade of Service.
- (3) Ethernet Virtual Connection (EVC)- EVC rate element is assessed per connection in increments of 5-100 Mbps, 101-500 Mbps and 501-1000 Mbps. CIR per EVC may be set in 1Mbps increments.
- (4) Nonrecurring Charges - one-time charges that apply for specific work activity related to the provisioning of Basic Switched Ethernet Service, as described in Section 23.2.
- (5) Recurring Charges - Recurring charges are rates that apply each month or fraction thereof that the service is provided. Recurring rates apply to 12, 24, 36, or 60-month* period under the terms and conditions of Term Pricing Plan (TPP), discussed in 23.1(H).
- (6) Month-to-Month Rates - Upon completion of a TPP, a customer's service will automatically convert to the Month-to-Month Rates unless the customer requests a new TPP.*

(G) Optional Features

- (1) Repeater (Circuit Regenerators) - provide essential detection and retransmission of Ethernet signals. Repeaters will only be provided as required by the Telephone Company when actual fiber facility distance between customer designated premises and/or central office locations exceed design limits (as specified in technical publication SBC-TP-76412-000). Repeaters will be located exclusively in Telephone Company central offices.
- (2) Additional MAC Addresses - If a customer connects to the Ethernet network using a bridge or switch for Layer 2 connectivity, only 50 MAC addresses will be initially available per port. 50 additional addresses may be purchased at an additional charge, with a limit of 100 MAC addresses total per port.

* All term plans for Basic Switched Ethernet Service, which are established after December 16, 2013, for term lengths, which are scheduled to expire at any time after October 1, 2018, will instead expire on October 1, 2018. All such services existing on or after October 1, 2018, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)(H) Term Pricing Plan

The Basic Switched Ethernet Service Term Payment Plan (TPP) is a term plan that allows a customer to purchase Basic Switched Ethernet Service over a 1, 2, 3, or 5* year period. During the term of the selected TPP, Telephone Company initiated recurring rate changes (increases or decreases) will automatically be applied to the monthly payments for the remaining months of the current TPP term however, the monthly recurring rate during the TPP term will never exceed the initial TPP rate. The TPP rates can be found in Section 23.2. The customer must commit to at least a 12-month TPP to qualify for the service.

The Administrative Charge is a non-recurring charge that applies for each Access Order. The Administrative Charge will be waived for all orders requesting new service. Administrative Charges for Basic Switched Ethernet Service are set forth in 23.2(D) following.

(I) Moves

Moves involve a change in the physical location of one of the following:

- (i) Service rearrangement;
- (ii) Point of Termination at the customer's premises; or
- (iii) Customer's premises.

Move charges are dependent upon the type of move requested by the customer.

(1) Service Rearrangement

Service rearrangements are changes to existing (installed) services, which do not result in a change in the minimum period requirements, as set forth in Section 2.10.3.

(2) Moves Within the Same Building

When the move is to a new location within the same building, the Administration charge, all associated non-recurring charges, and Customer Connection charge for the service termination affected will apply. There will be no change in the minimum period requirements, as described in Section 2.10.

* All term plans for Basic Switched Ethernet Service, which are established after December 16, 2013, for term lengths, which are scheduled to expire at any time after October 1, 2018, will instead expire on October 1, 2018. All such services existing on or after October 1, 2018, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)

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Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)(I) Moves (Cont'd)(3) Moves to a Different Building

- (a) The customer may move one Basic Switched Ethernet Service location to another location in the same LATA and maintain the existing TPP term at the new location, or establish a new TPP equal to or greater than the remaining time left at the old location without assessment of early Termination Liability charges. No lapse in billing can occur. The customer's request for the disconnect at the existing location and the request for the Add at the new location must refer to each other and be issued at the same time.
- (b) When the move is to a new location, which is served out of a different serving wire center, the Administration charge, all associated non-recurring charges, and a new Customer Connection charge for the service will apply. There will be no change in the minimum period requirements.
- (c) For all other moves to a different building and/or moves at more than one location, the customer will be liable for termination charges and will be treated as a discontinuance; therefore, start of service, all associated nonrecurring charges, and new minimum period requirements, as described in Section 2.11.4, will apply.

(J) Expiration of Basic Switched Ethernet Service TPP term options

The Basic Switched Ethernet Service TPP is not available for renewal. At the expiration of the TPP term, the customer may select a new TPP term at the prevailing rates. If a customer does not wish to purchase a new Basic Switched Ethernet Service TPP at the expiration of the term, the customer's service will automatically convert to the prevailing month-to-month rates. The Telephone Company must receive written notice 45 days prior to termination.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)(K) Termination Liability

Termination liability charges will apply in the following cases:

In the event service (which consists of a Basic or Basic Plus Connection and a designated CIR) is terminated prior to the end of the TPP term, a termination charge utilizing the following termination percentage will apply:

Termination Billing Period Percentage: 50%.

The monthly recurring rates exclude EVC(s) and additional MAC Address charges.

The termination charge is calculated as follows:

(Monthly recurring rates, e.g. Basic Plus Connection 10/100 Mbps 1 Year \$660 + Bronze 10 Mbps CIR \$550 = \$1210) X (Months remaining in TPP term) X (Termination Billing Period Percentage)

Example: A customer with \$1210.00 in monthly rates terminates service with ten (10) months remaining in a three year TPP term.

The termination liability charge would be calculated as follows:
(\$1210.00) X (10) X (.50) = \$6,050.00

Termination Liability will not apply for a new customer's first two Basic Switched Ethernet Service Network and their Ethernet Network without incurring termination penalties associated with a circuit under the TPP if they do not elect to continue service.

This will allow customers to fully complete integration testing between the Company's Basic Switched Ethernet Service Network and their Ethernet Network without incurring termination penalties associated with a circuit under the TPP if they elect not to continue service.

(L) Upgrades

An upgrade is considered an increase in speed/capacity and technology/functionality when comparing Basic Switched Ethernet Service to the new service. Customers will be permitted to upgrade to a higher-speed service provided by the Company, without incurring Termination Charges, given all of the following conditions are met:

- (1) The customer must issue a disconnect order for the existing Basic Switched Ethernet Service and place a service order for the new higher-speed service at the same locations such that there is no more than 90 days overlap in service.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

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Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.1 Service Description (Cont'd)

(L) Upgrades (Cont'd)

- (2) The new higher-speed service term must be equal to or greater than the remaining time left on the existing Basic Switched Ethernet Service term.
- (3) The existing Basic Switched Ethernet Service must have been in service for a minimum period of 15 months for a 3-year term, or 18 months for a 5-year* term.

Existing Basic Switched Ethernet Service with 1 or 2-year terms would not be eligible for this option.

* All term plans for Basic Switched Ethernet Service, which are established after December 16, 2013, for term lengths, which are scheduled to expire at any time after October 1, 2018, will instead expire on October 1, 2018. All such services existing on or after October 1, 2018, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

(M) Migration to Frontier Basic Switched Ethernet Service

If the customer migrates from Basic Switched Ethernet Service to Frontier Switched Ethernet Service, the customer may do so without termination charges, given all of the following conditions are met:

- The customer must issue a disconnect order for their existing Basic Switched Ethernet Service and place a service order for Switched Ethernet Service. If over-lapping service is required, billing will apply.
- Standard nonrecurring charges to install Switched Ethernet Service, if applicable, will apply.
- The term of the new contract must be equal to or greater than the remaining time left on the existing Basic Switched Ethernet Service contract **and** the Monthly Recurring Charge of the new Switched Ethernet Service must be equal to or greater than the Monthly Recurring Charge of the Basic Switched Ethernet Service being replaced.
- The new Switched Ethernet Service and the Basic Switched Ethernet Service must be billed to the same customer of record at the same location(s).
- The customer's existing Basic Switched Ethernet Service must have been in service at least 12 months.
- Migration is contingent on availability of fiber and equipment to serve the location being migrated. Other Special Construction charges, as necessary, may apply.
- If Special Construction charges were applicable to the existing Basic Switched Ethernet Service being replaced, and those charges were not already paid, they must be carried forward to the new Switched Ethernet Service contract.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)

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The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

1st Revised Page 23-17Section 23 - Basic Switched Ethernet Service ⁵ - Grandfathered

(D)

23.2 Rates and Charges (Cont'd)(A) Connection

	Month-to Month	1 Year	2 Year	3 Year	5 Year ⁴	NRC
Basic Connection						
10/100 Mbps	\$780.00	\$660.00	\$630.00	\$550.00	\$480.00	\$1,630.00 ³
Gigabit Ethernet	\$1,190.00	\$1,020.00	\$970.00	\$850.00	\$720.00	\$1,780.00 ³
Basic Plus Connection						
10/100 Mbps	\$780.00	\$660.00	\$630.00	\$550.00	\$480.00	\$1,630.00 ³
Gigabit Ethernet	\$1,190.00	\$1,020.00	\$970.00	\$850.00	\$720.00	\$1,780.00 ³

(B) Committed Information Rate(2) Bronze Grade of Service

CIR Bandwidth Charges CIR Speed (Mbps)	Monthly Recurring Rate	NRC ³
5 ²	\$380.00	\$ 0.00
10 ²	\$550.00	\$ 0.00
15 ¹	\$1,140.00	\$ 0.00
20 ²	\$760.00	\$ 0.00
25 ¹	\$1,420.00	\$ 0.00
30 ¹	\$1,530.00	\$ 0.00
40 ¹	\$1,650.00	\$ 0.00
50 ²	\$870.00	\$ 0.00
60 ¹	\$1,990.00	\$ 0.00
80 ¹	\$2,250.00	\$ 0.00
100 ²	\$1,020.00	\$ 0.00
125 ¹	\$2,460.00	\$ 0.00
150	\$1,160.00	\$ 0.00
175 ¹	\$3,570.00	\$ 0.00
200 ¹	\$3,740.00	\$ 0.00
250 ²	\$1,330.00	\$ 0.00
300 ¹	\$4,250.00	\$ 0.00
400 ¹	\$4,500.00	\$ 0.00
500 ²	\$1,610.00	\$ 0.00
600	\$1,890.00	\$ 0.00
700 ¹	\$5,270.00	\$ 0.00
800 ¹	\$5,520.00	\$ 0.00
900 ¹	\$5,780.00	\$ 0.00
1000 ²	\$2,180.00	\$ 0.00

1 As of 04/13/05, the specified CIR Speeds will no longer be available to new customers, there will be no change to existing customers.

2 As of 04/13/05 a one-time CIR nonrecurring charge will be waived for all existing customers that are currently on a grandfathered CIR option and elect to change their selected CIR to 5, 10, 20, 50, 100, 250, 500 or 1000 Mbps on or before 06/30/05.

3 As of 09/09/06 the CIC NRC charges will be waived for Basic and Basic Plus Connections for 2, 3 and 5 year terms of service.

4 All term plans for Basic Switched Ethernet Service which are established after December 16, 2013, for term lengths which are scheduled to expire at any time after October 1, 2018, will instead expire on October 1, 2018. All such services existing on or after October 1, 2018, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

5 This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)

(N)

Issued: December 18, 2018

Effective: January 1, 2019

CONNECTICUT ACCESS SERVICE TARIFF

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1st Revised Page 23-18Section 23 - Basic Switched Ethernet Service ⁴ - Grandfathered

(D)

23.2 Rates and Charges (Cont'd)

(B) Committed Information Rate (Cont'd)

(2) Silver Grade of Service

<u>CIR Bandwidth Charges</u>	<u>Monthly Recurring Rate</u>	<u>NRC³</u>
CIR Speed (Mbps)		
5 ²	\$550.00	\$ 0.00
10 ²	\$720.00	\$ 0.00
15 ²	\$1,290.00	\$ 0.00
20 ²	\$930.00	\$ 0.00
25 ¹	\$1,610.00	\$ 0.00
30 ¹	\$1,740.00	\$ 0.00
40 ¹	\$1,870.00	\$ 0.00
50 ²	\$1,040.00	\$ 0.00
60 ¹	\$2,270.00	\$ 0.00
80 ¹	\$2,550.00	\$ 0.00
100 ²	\$1,190.00	\$ 0.00
125 ¹	\$2,780.00	\$ 0.00
150	\$1,500.00	\$ 0.00
175 ¹	\$4,030.00	\$ 0.00
200 ¹	\$4,220.00	\$ 0.00
250 ²	\$1,670.00	\$ 0.00
300 ¹	\$4,800.00	\$ 0.00
400 ¹	\$5,100.00	\$ 0.00
500 ²	\$1,950.00	\$ 0.00
600	\$2,230.00	\$ 0.00
700 ¹	\$5,950.00	\$ 0.00
800 ¹	\$6,240.00	\$ 0.00
900 ¹	\$6,540.00	\$ 0.00
1000 ²	\$2,520.00	\$ 0.00

¹ As of 04/13/05, the specified CIR Speeds will no longer be available to new customers; there will be no change to existing customers.

² As of 04/13/05 a one-time CIR nonrecurring charge will be waived for all existing customers that are currently on a grandfathered CIR option and elect to change their selected CIR to 5, 10, 20, 50, 100, 250, 500 or 1000 Mbps on or before 06/30/05.

³ As of 09/09/06 the CIC NRC charges will be waived.

⁴ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

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The Southern New England
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1st Revised Page 23-19Section 23 - Basic Switched Ethernet Service ¹ - Grandfathered

(D)

23.2 Rates and Charges (Cont'd)(C) EVC Charges

<u>EV CIR Range</u>	<u>Bronze Monthly Recurring</u>	<u>Silver Monthly Recurring</u>	<u>NRC per EVC</u>
5-100 Mbps	\$0.00	\$0.00	\$0.00
101-500 Mbps	\$0.00	\$0.00	\$0.00
501-1000 Mbps	\$0.00	\$0.00	\$0.00

(D) Other Charges

<u>Item</u>	<u>Recurring Charge</u>	<u>Nonrecurring Charge</u>
Administrative Charge, per order	N/A	\$51.00
Design and Central Office Connection Charge, per circuit	N/A	\$0.00
Customer Connection Charge, per termination	N/A	\$0.00

(E) Optional Features

	<u>Month-to- Month</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	<u>5 Year*</u>	<u>NRC</u>
Repeater	\$400.00	\$340.00	\$315.00	\$275.00	\$255.00	\$210.00

	<u>Recurring Charge</u>	<u>Nonrecurring Charge</u>
Additional MAC Addresses (51-100)	\$4.25	\$59.00

* All term plans for Basic Switched Ethernet Service, which are established after December 16, 2013, for term lengths which are scheduled to expire at any time after October 1, 2018, will instead expire on October 1, 2018. All such services existing on or after October 1, 2018, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

¹ This service is grandfathered as of January 1, 2019. No add, moves or changes will be allowed after this date.

(N)
(N)

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*

24.1 General Description

MON Ring Service is Grandfathered Obsolete effective December 1, 2012. Existing MON Ring customers will be permitted to modify their service by adding new circuits to their existing service but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Term Pricing Plan (TPP) and should be coterminous with the customer's existing TPP. Customers with TPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted for MON Ring Service.

(A) Basic Service Description

Multi-service Optical Network (MON) Ring Service is a Special Access Service that provides high volume optical transport utilizing multiplexing technology in a dedicated ring configuration. Multiple data signals are transmitted over the same fiber-optic cable at the same time, using different wavelengths of light, in order to increase the amount of information that can be transferred. Each wavelength represents a transmission channel in the MON Ring system and is protocol independent of every other channel in the system.

MON Ring Service allows customers to combine their multiple data signals so they may be amplified and transported over one network. MON Ring Service provides dedicated capacity over a single pair of fiber in two directions that increases capacity without limiting customer-required data interfaces.

The following regulations will apply to MON Ring Service:

- (1) MON Ring Service is only available under a three (3) or five (5) year Term Payment Plan (TPP) for which rates and charges are applicable. When a service is discontinued prior to the expiration of the minimum period, termination charges are applicable for the remaining portion of the minimum period.

- (2) Prior to confirming an order for service, the Telephone Company will provide a proposed route diagram to the customer. Installation will not begin until the customer has accepted the proposed routing by the Telephone Company.

* MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

The Southern New England
Telephone Company
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Original Page 24-2

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.1 General Description (Cont'd)

(B) Service Provisioning

(1) Manner of Provisioning

MON Ring Service will be offered in two configurations. Customers can purchase MON Ring with growth capacity up to 16-wavelengths or up to 32-wavelengths. The 32-wavelength systems may be provisioned as two 16-wavelength systems sharing common fiber and common equipment. Conversions from 16-wavelength MON Rings to 32-wavelength MON Rings are not available.

Customer provided equipment (CPE) must deliver the data signals for the MON Ring Service transport within the technical specifications for the subscribed data service. Technical specifications can be found in the following Technical Reference Publications:

- AM TR-NIS-000100, Ameritech LAN Interconnect Service-Token Ring Interface Specifications
- AM TR-NIS-000104, Ameritech LAN Interconnect Service -CSMA CD Interface Specifications
- AM-TR-NIS-000111, Ameritech OC-3, OC-12, and OC-48 Service Interface Specifications
- AM-TR-TMO-000101, Ameritech Digital Service Transmission Parameters
- AM-TR-TMO-000080, Ameritech Service's Network Channel and Network Channel Interface Codes
- AM-TR-NIS-000096, Ameritech Technical Interfaces Specifications
- AM-TR-NIS-000107, (ESCON[®]/1/)
- IBM SA22-7202-XX, IBM Documentation (ESCON[®]/1/)
- IBM SA22-0394-XX
- ANSI X3.T9.3, Fibre Channel (also includes FICON[®]/1/and ISCTM[™]/1/)
- ANSI/IEEE 802.3, Fast Ethernet
- IEEE 802.3x and z, Gigabit Ethernet
- IEEE 802.3ae
- ANSI/SMPTE 259M, D1 Video

The customer must first order the MON Ring Transport System followed by the MON Ring Channels. When ordering ESCON[®], Fast Ethernet, D1 Video and OC-3/OC-3c ports, the customer must first order a MON Ring Channel Sub-Rate System over which these services will be assigned. Subsequent changes to the initial provisioning of the service may require additional optical amplifiers and or regenerators

OC-12/OC-12c Gigabit Ethernet, Fibre Channel and FICON[®] ports at the 1.0625 Gbps speed may be ordered either on the MON Ring, or as a riding circuit on a Sub-Rate System. Fibre Channel and FICON[®] ports at the 2.125 Gbps speed may only be ordered on the MON Ring, and are not available on a Sub-Rate System.

MON Ring Service provides physical layer transport only. Telephone Company assumes no responsibility for the signals generated by the CPE, or address signaling to the extent the CPE performs addressing. Error detection and correction of data generated by the CPE are the customer's responsibility.

/1/ESCON[®], ETR[™], FICON[®], ISCTM[™] and GDPS[®] are trademarks of the International Business Machines (IBM) Corporation, Armonk NY, 10504.

* MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.1 General Description (Cont'd)

(B) Service Provisioning

(2) Limitations

- (a) Optical amplifiers and/or regenerators may have to be added to a MON Ring Service subsequent to the initial installation.
- (b) When any additional services are added, such installation may cause a service interruption to existing unprotected channels, or a protection switch on protected channels.
- (c) Services with time-delay sensitive protocols have facility length limitations and may affect the design/availability of MON Ring Service. The Telephone Company will work cooperatively with the customer to determine if the desired services can operate between the customers designated premises. These services will not be available on MON Rings nor between nodes where facility length limitations exceed the service specifications described in Sections 24.3(B) (1) & (2).
- (d) Neither electrical interfaces nor optical multiplexing are available with MON Ring Service.
- (e) Conversions from any other lower speed services to MON Ring Service are not available.
- (f) Channel protection may not be available for all interface types.
- (g) A protective channel provides protection for a single channel toward the network. It does not protect the channel against failure towards the customer interface. Protection reduces the maximum individual channel capacity of the system.

(3) Allowance for Service Interruptions

An interruption of service will start when an inoperative service is reported to the Telephone Company and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element as described in Section 2.12.

Any protected service interruptions greater than 2 consecutive seconds as a result of a failure on the protected portion of the circuit will result in a credit equal to one month's bill for the individual port-to-port connection involved. If the interruption occurs on an unprotected portion of the circuit, normal terms and conditions for credit allowances will apply as stated in 2.12.2 (F).

* MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.1 General Description (Cont'd)

(B) Service Provisioning (Cont'd)

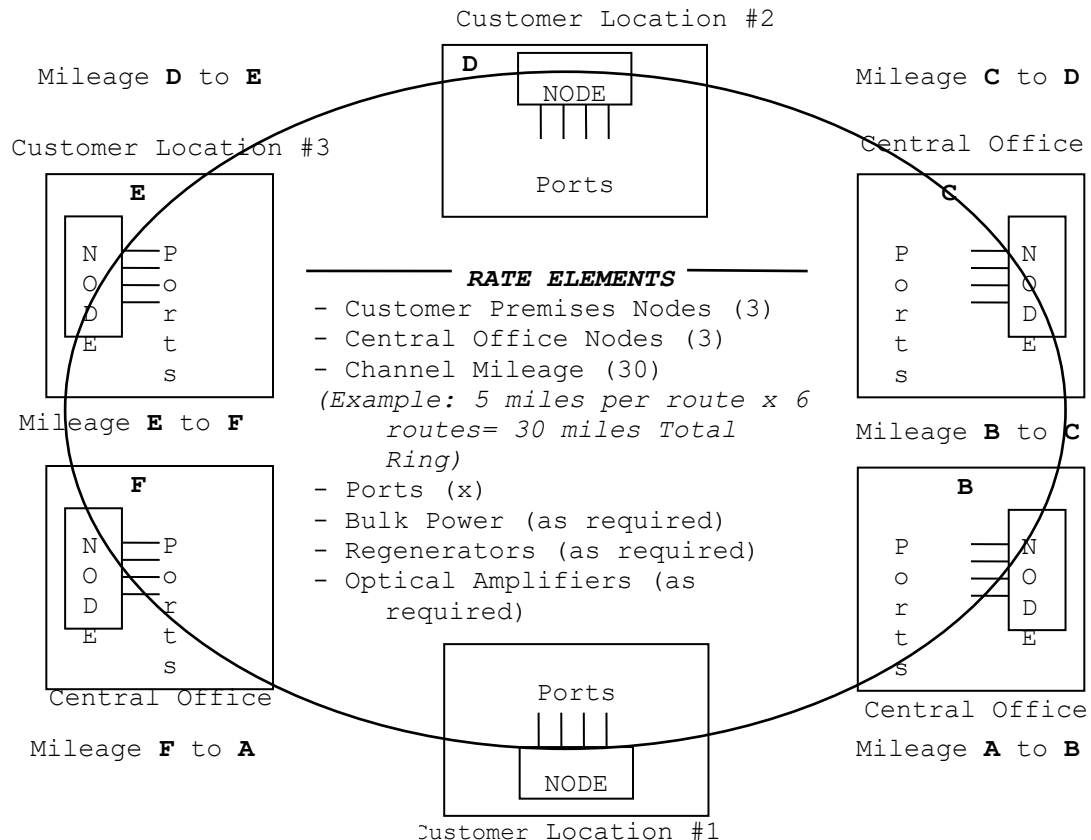
(4) MON Ring Configuration

MON Ring Service is available in different ring configurations utilizing central office nodes and customer premise nodes, with a maximum of eight sites and forty shelves. Each shelf supports 8 non-protected or 4 protected services. Its functionality includes supporting add/drop multiplexing, regeneration and amplification cards.

The minimum configuration would be two nodes either at a serving wire center or at a customer premises site. If the nodes are not in a serving wire center, a central office management site for monitoring is required. An optical amplifier located at a serving wire center can be used as a monitoring site.

A combination of these configurations may be used in a network design depending on the customer's traffic pattern.

Diagram of MON Ring



* MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 24-5

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.1 General Description (Cont'd)

(C) Responsibility of the Telephone Company

The Telephone Company will provision and maintain MON Ring Service for the customer up to and including the Network Interface (NI).

(D) Responsibility of Customer

The customer is responsible for providing the compatible CPE to be used for the connection to the MON Ring Service.

(E) Service Rearrangements

Service rearrangements are provisioning changes to existing (installed) services which do not result in either a change in the minimum period requirements or a change in the physical location of the point of termination at a customer premises, and will be charged as follows:

- (1) If changing the customer of record, the Administrative Charge will apply. For the changes of customer of record to be treated as a service rearrangement, the new customer must assume liability for both current and prior charges for the service.
- (2) For all other changes not requiring physical work at the central office, or customer premises, including a change in the customer assigned circuit identification or billing account number (when initiated by the customer), the Administrative Charge will apply.
- (3) For all other service rearrangements requiring physical work to be performed, the Administrative Charge will apply. Additionally, one Design and Central Office Connection Charge and one Customer Connection Charge per customer premises node will apply.

* MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.2 Route Diversity

MON Ring Service is configured with diversely routed fiber whenever possible. Unprotected channels will be lost in the event of a fiber path failure on which the circuit is assigned. Equipment interfaces towards the customer are not protected.

Routing of fiber may be diversified from the customer premises to their serving wire center or alternate serving wire center as determined by the Telephone Company, and where facilities are available, to ensure that loop fibers follow separate paths to the serving wire center or alternate serving wire center. In addition, IOF (interoffice facility) fiber paths may be diversified to ensure that at any serving wire center drop node, the fibers do not egress and ingress at the same location. In cases where the serving wire center does not have multiple entrance fiber facilities, the section of the fiber from the manhole closest to the serving wire center will be routed within the same duct structure.

At the customer's request, additional protection to the customer premises nodes can be provided via dual entrance facilities. This special request will cause the customer to incur special construction cost. Without this special request, diverse fiber is provided to the manhole closest to the customer premises. The customer or building owner is responsible for providing the conduit.

In the case where dual entrance facilities are not established at the customer premises, collapsed facilities from the customer premises to the building equipment location are not diverse.

24.3 Rate Regulations

(A) Rate Elements

There are eight basic rate elements which apply to the MON Ring Service:

(1) Nonrecurring Charges

These are one-time charges that apply for specific work activities (i.e., installation of new service, moves, and rearrangements of installed services). There are three different nonrecurring charges:

- (a) Administrative Charge - applies any time a customer initiates an order for service. This charge applies once per customer order.
- (b) Design and Central Office Connection Charge - applies once for the initial MON Ring installation, and applies once for each circuit ordered on the MON Ring Service.
- (c) Customer Connection Charge - applies to establish the MON Ring network, and is charged per node. Subsequent installation charges apply to each subsequent shelf installed after the MON Ring network is established.

* MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.3 Rate Regulations (Cont'd)

(A) Rate Elements (Cont'd)

(2) Customer Premises Node

Provides for the termination of service at the customer's premises and presents the various selected ports to the customer. Applies per customer designated premises, per first shelf and subsequent shelves.

(3) Central Office Node

Provides for the termination of service at a Telephone Company serving wire center. Applies per first shelf and subsequent shelves.

(4) Channel Mileage

Provides for the transmission facilities between the serving wire centers associated with the customer designated premises. The mileage measurement is developed utilizing the V&H coordinate method as set forth in the National Exchange Carrier Association, Inc. (NECA) Wire Center Information Tariff, F.C.C. No. 4. A one-mile minimum will be billed between nodes. A two-node ring configuration has a two mile minimum, one mile from the central office node to the customer premises node, and one mile from the customer premises node to the central office node.

(5) Optical Amplifier

Provides for an optical signal boost and applies when the distance between nodes exceeds the transmission loss parameters (link loss specific). Optical amplifiers are located at the customer premises node, a central office node, or a serving wire center. Each amplifier provides amplification for up to 16 channels per location (one amplifier per C or L band).

(6) Regenerator

Provides for re-timing, re-shaping, and regeneration when the degradation of the signal exceeds the dispersion and/or optical amplifier noise limits. Applies on a per shelf basis for up to 2.5 Gbps services and on a per circuit basis for up to 10 Gbps service.

* MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.3 Rate Regulations (Cont'd)

(A) Rate Elements (Cont'd)

(7) Bulk Power

Provides for customer premises node power, which will be required if the customer's power source is AC. Applies once per 4 shelves, with the first shelf and fifth subsequent shelf at each applicable premise mode.

(8) Port

Provides for the channel interface at any node location for each unprotected or protected channel. Applies per port/per circuit terminating location. Charges will apply at the lower speed circuit level.

(B) MON Ring Connection Capacity

MON Ring Service offers the following port interfaces:

(1) IBM Protocols:

ESCONTM/1/ (200 Mbps) - Enterprise Systems Connection. An IBM duplex optical connection used for computer-to-computer data exchange. ESCONTM is limited to a maximum distance of 43 km and actual data throughput is distance sensitive.

ETRTM /1/ (8 Mbps - Manchester Encoded) - External Timing references. This protocol is used for IBM GDPSTTM architecture for multiple-location host processors. ETRTM is limited to a maximum distance of 40 km.

FICONTM/1/ (1.0625 and 2.125 Gbps) - A higher-speed evolution of ESCONTM, enabling 1 Gbps connectivity among mainframes, storage devices and peripherals. FICONTM is limited to a maximum distance of 100 km and actual data throughput is distance sensitive.

ISCTM//1/ (1.0625 Gbps) - Inter-System Coupling. This protocol is used with IBM GDPSTTM architecture for multiple-location host processors. ISCTM is limited to a maximum distance of 40 km.

/1/ ESCONTM, ETRTM, FICONTM, ISCTM and GDPSTTM are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504

* MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.3 Rate Regulations (Cont'd)

(B) MON Ring Connection Capacity (Cont'd)

(2) Other Protocols:

Fibre Channel (1.0625 and 2.125 Gbps) - an industry standard protocol used to interconnect Storage Area Networks (SANs). Fibre Channel is limited to a maximum distance of 100 km and actual throughput is distance sensitive.

Fast Ethernet - a version of Ethernet that allows data transmission rates of 100 Mbps.

Gigabit Ethernet - a version of Ethernet that allows data transmission rates of 1 Gbps.

10 Gigabit Ethernet (WAN-PHY) - a version of Ethernet that allows data transmission rates of 9.953 Gbps with a WAN-PHY only interface.

10 Gigabit Ethernet (LAN-PHY) - a version of Ethernet that allows data transmission rates of 10.3125 Gbps with a LAN-PHY only interface.

D1 Video - uncompressed digital video signal operating at 270 Mbps.

GigE/FC/FICON® Sub-Rate System (2:1) - provides a multiplexing system which allows customers to put 2 Gigabit Ethernet (GigE) Channels, 2 Fibre Channels or 2 FICON® Channels on one port card.

ESCON® Sub-Rate System (8:1) - provides a multiplexing system which allows customers to put up to 8 ESCON® Channels (no other protocol) on one port card.

OC-3/OC-12 Sub-Rate System (4:1) - provides a multiplexing system which allows customers to put up to 4 OC-3/OC-3c signals or combinations thereof signals on one card. This Sub-Rate multiplexing system will have independent timing, which allows multiple OC-3/OC-3c services and/or OC-12/OC-12C services on one sub-rate card.

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The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 24-10

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.3 Rate Regulations (Cont'd)

(B) MON Ring Connection Capacity (Cont'd)

(2) Other Protocols: (Cont'd)

SONET OC-3/OC-3c** - provides a fiber-based 155.52 Mbps synchronous optical full duplex data transmission capability.

SONET OC-12/OC-12c** - provides a fiber-based 622.08 Mbps synchronous optical full duplex data transmission capability.

SONET OC-48/OC-48c** - provides a fiber-based 2488.32 Mbps synchronous optical full duplex data transmission capability.

SONET OC-192** - provides a fiber-based 9953.28 Mbps synchronous optical full duplex data transmission capability.

Sub-Rate System** - provides a multiplexing system operating at 1.25 Gbps with 4 ports. Applicable to OC3 port interfaces.

Sub-Rate System - provides a multiplexing system operating at 1.25 Gbps with 4 ports. Applicable to ESCON™, Fast Ethernet, and D1 Video port interfaces.

* MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

** These port interfaces are available at both the customer premises node and the central office node. All other port interfaces are available only at the customer premises node.

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.3 Rate Regulations (Cont'd)

(C) Term Pricing Plan

(1) General Description

MON Ring Service Term Pricing Plan (TPP) provides the customer with discounted tariff rates for a three or five year term period. During the length of the selected TPP, monthly rates for service ordered under the plan will automatically change (increase or decrease), as Telephone Company initiated rate changes become effective. However, under no circumstances will any rate change cause the monthly rate for the service to exceed the rate that was in effect at the beginning of the selected TPP. The Telephone Company will notify customers participating in a TPP when monthly rates are increased or decreased. When customer's term agreement expires, if customer does not subscribe to a new service or choose to disconnect service, the customer's service will automatically convert to monthly extension rates.

(2) TPP Renegotiations

The customer may choose to terminate an existing TPP at any time prior to the end of the three or five year term period and renegotiate a new TPP without termination liability provided the new TPP meets the following requirements:

- (a) The minimum period for the new TPP must be equal to or of greater duration than the remaining period of the existing TPP.
- (b) The renegotiated TPP will be based on the current rates.

(3) Additions

Any MON Ring rate elements (as shown in Section 24.4) added to the existing service configuration after the expiration of 25 months of a 36 month TPP term, or 42 months of a 60-month TPP term, will be billed under the tariffed monthly extension rates.

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 24-12

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)* (Cont'd)

24.3 Rate Regulations (Cont'd)

(C) Term Pricing Plan (Cont'd)

(4) Termination of Service

Customer requesting termination of service prior to the expiration date of the TPP for any reason will be liable for a termination charge, which is calculated as follows:

Billing Period	Termination Percentage
3 Year	75%
5 Year	60%

(Monthly Recurring Rates) **X** (Months Remaining in Billing) **X** (Termination Percentage)

Example:

A MON Ring Customer with \$50,000 monthly rate terminates service after 2 years with 1 year (12 months) remaining in a 3 year TPP. The termination liability would be calculated as:

$$\$50,000 \times 12 \times .75 = \$450,000.00$$

(5) Moves

If during the duration of the TPP, the customer wishes to rearrange or move a customer premises node, a termination charge will apply.

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 24-13

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.4 Rates and Charges

(A) Nonrecurring Charges

Nonrecurring Charge

(1) Administrative Charge - per customer order	\$125.00
(2) Design and Central Office Connection Charge - per network and per riding circuit	600.00
(3) Customer Connection Charge (Service Establishment) - per node	7,500.00
(4) Customer Connection Charge (Subsequent Installation) - per subsequent shelf	1,000.00

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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 24-14

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.4 Rates and Charges (Cont'd)

(B) Recurring Charges

	Monthly Rates		Monthly
	<u>3 Year</u>	<u>5 Year</u>	<u>Extension</u>
(1) Customer Premises Node (includes first shelf)	\$7,800.00	\$6,240.00	\$10,920.00
(2) Customer Premises Node - per subsequent shelf	5,850.00	4,680.00	8,190.00
(3) Central Office Node (includes first shelf)	7,800.00	6,240.00	10,920.00
(4) Central Office Node - per subsequent shelf	5,850.00	4,680.00	8,190.00
(5) Interoffice Transport Mileage			
- Fixed	325.00	260.00	455.00
- Per Mile	325.00	260.00	455.00
(6) Optical Amplifier			
- C band (per location)	5,400.00	3,600.00	7,600.00
- L band (per location)	5,400.00	3,600.00	7,600.00
(7) Regenerator (as required)			
- Up to 2.5 Gbps (per shelf)	7,500.00	5,000.00	10,500.00
- Up to 10 Gbps (per circuit)	15,000.00	10,000.00	21,000.00
(8) Bulk Power			
- per first shelf, for shelves 1 thru 4	2,000.00	1,600.00	2,600.00
- per fifth subsequent shelf, for shelves 5 thru 8	1,600.00	1,300.00	2,100.00

* MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 24-15

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.4 Rates and Charges (Cont'd)

(C) Ports

- per port/per circuit
terminating location

	Monthly Rates <u>3 Year</u>	<u>5 Year</u>	Monthly <u>Extension</u>
(1) ETR TM /1/ - unprotected channel	\$975.00	\$750.00	\$1,400.00
(2) FICON TM /1/ (1.0625 Gbps) - unprotected channel	975.00	750.00	1,400.00
- protected channel	1,950.00	1,500.00	2,800.00
(3) FICON TM /1/ (2.125 Gbps) - unprotected channel	1,700.00	1,300.00	2,400.00
- protected channel	3,400.00	2,600.00	4,800.00
(4) ISC TM /1/ - unprotected channel	3,250.00	1,250.00	4,600.00
(5) Fibre Channel (1.0625 Gbps) - unprotected channel	1,200.00	900.00	1,700.00
- protected channel	2,400.00	1,800.00	3,400.00

/1/ ESCONTM, ETRTM, FICONTM, ISCTM and GDPSTM are registered trademarks of the
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CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 24-16

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.4 Rates and Charges (Cont'd)

(C) Ports (Cont'd)

- per port/per circuit
terminating location

	Monthly Rates		Monthly
	<u>3 Year</u>	<u>5 Year</u>	<u>Extension</u>
(6) Fibre Channel (2.125 Gbps)			
- unprotected channel	\$1,700.00	\$1,300.00	\$2,400.00
- protected channel	3,400.00	2,600.00	4,800.00
(7) Gigabit Ethernet			
- unprotected channel	1,200.00	900.00	1,700.00
- protected channel	2,400.00	1,800.00	3,400.00
(8) 10 Gigabit Ethernet (WAN-PHY)			
- unprotected channel	15,000.00	12,500.00	21,000.00
- protected channel	20,000.00	16,700.00	28,000.00
(9) 10 Gigabit Ethernet (LAN-PHY)			
- unprotected channel	15,375.00	12,815.00	21,525.00
- protected channel	20,500.00	17,120.00	28,700.00
(10) SONET OC-12/OC-12c			
- unprotected channel	1,300.00	1,000.00	1,900.00
- protected channel	2,600.00	2,000.00	3,700.00
(11) SONET OC-48/OC-48c			
- unprotected channel	4,400.00	3,700.00	6,000.00
- protected channel	6,600.00	5,560.00	9,000.00
(12) SONET OC-192			
- unprotected channel	15,000.00	12,500.00	21,000.00
- protected channel	20,000.00	16,700.00	28,000.00

* MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 24-17

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.4 Rates and Charges (Cont'd)

(C) Ports (Cont'd)

- per port/per circuit
terminating location

		Monthly Rates		Monthly
		<u>3 Year</u>	<u>5 Year</u>	<u>Extension</u>
(13)	Sub-Rate System			
	- unprotected channel	\$1,300.00	\$1,000.00	\$1,900.00
	- protected channel	2,600.00	2,000.00	3,700.00
(14)	ESCON®/1/			
	- unprotected channel	100.00	100.00	150.00
	- protected channel	100.00	100.00	150.00
(15)	Fast Ethernet**			
	- unprotected channel	325.00	250.00	500.00
	- protected channel	500.00	400.00	800.00
(16)	DS1 Video**			
	- unprotected channel	100.00	100.00	150.00
	- protected channel	100.00	100.00	150.00
(17)	SONET OC-3/OC-3c#			
	- unprotected channel	100.00	100.00	150.00
	- protected channel	100.00	100.00	150.00

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* MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

** Available only when ordered with Sub-Rate system or ESCON® Sub-Rate system.

Available only when ordered with Sub-Rate System or OC-3/OC-12 Sub-Rate System.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 24-18

24. Multi-service Optical Network (MON) Ring Service (Grandfathered Obsolete)*
(Cont'd)

24.4 Rates and Charges (Cont'd)

(C) Ports (Cont'd)

- per port/per circuit
terminating location

	Monthly Rates		Monthly Extension
	<u>3 Year</u>	<u>5 Year</u>	
(18) GigE/FC/FICON ^{®/1/} Sub-Rate System			
- unprotected channel	\$875.00	\$700.00	\$1,140.00
- protected channel	1,750.00	1,400.00	2,280.00
(19) GigE Riding Circuit**			
- unprotected channel	500.00	400.00	650.00
- protected channel	1,000.00	800.00	1,300.00
(20) Fibre Channel Riding Circuit**			
- unprotected channel	500.00	400.00	650.00
- protected channel	1,000.00	800.00	1,300.00
(21) FICON ^{®/1/} Riding Circuit**			
- unprotected channel	400.00	320.00	480.00
- protected channel	800.00	640.00	960.00
(22) ESCON ^{®/1/} Sub-Rate System			
- unprotected channel	1,500.00	1,125.00	1,950.00
- protected channel	3,000.00	2,250.00	3,900.00
(23) OC-3/OC-12 Sub-Rate System			
- unprotected channel	1,000.00	750.00	1,300.00
- protected channel	2,000.00	1,500.00	2,600.00
(24) OC-12 Riding Circuit#			
- unprotected channel	500.00	375.00	700.00
- protected channel	1,000.00	750.00	1,400.00

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* MON Ring Service is Grandfathered Obsolete effective December 1, 2012.

** Available only when ordered with GigE/FC/FICON^{®/1/} Sub-Rate system.

Available only when ordered with Sub-Rate System of OC-3/OC-12 Sub-Rate system.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service25.1.1 Service Description

- (A) Ultimate Switched Ethernet Service is a switched Ethernet transport service providing Ethernet transport functionality using fiber and copper access facilities and a switched Ethernet core network.
- (B) Ultimate Switched Ethernet Service provides full duplex transport of data signals between a Customer's premises * and an Ethernet switch in a Telephone Company central office.
- (C) Ultimate Switched Ethernet Service supports point-to-point, point-to-multipoint or multipoint-to-multipoint configurations. Point-to-point service provides a connection between two ports. Point-to-multipoint service provides multiple point-to-point connections to multiple ports in the network. Multipoint-to-multipoint service provides a connection between three or more designated ports on the Ultimate Switched Ethernet Service network.
- (D) The Telephone Company shall determine the interface specifications for Ultimate Switched Ethernet Service in its sole discretion. Customers may obtain the interface specifications from their account representatives.
- (E) Ultimate Switched Ethernet Service provides intraLATA transport service where suitable equipment and facilities are available in selected areas.

Where facilities are not available, facilities may be constructed, subject to certain conditions as determined by the Telephone Company. Special Construction charges may apply.
- (F) The minimum period for Ultimate Switched Ethernet Service is 12 months.
- (G) Unless otherwise specified in this section, the general terms and conditions of this Intrastate Access Tariff apply to Ultimate Switched Ethernet Service (e.g., Section 2).

* Hereinafter, the phrase "Customer's premises" and "Customer location" (or similar terms) shall be construed to include an end user's premises, as appropriate in the context, where the Customer is a Wholesale Customer and service is terminated at the premises of an end user that is not the Customer of record of the Telephone Company.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.1 Service Description (Cont'd)

(H) Ultimate Switched Ethernet Service will be provisioned using the service components described below. Rates and charges for these components are provided in 25.1.6, following. Ultimate Switched Ethernet Service is available in two serving arrangements and two types of Customer Port Connections - the Basic Service Arrangement and Basic Ports described in subsection (1), below, and the Per Packet Class of Service Arrangement and PPCOS Ports described in subsection (2), below. Unless specifically stated otherwise, all references to Customer Port Connections or ports in Subsections (1) and (2), below, shall be deemed to refer to Basic Ports and PPCOS Ports, respectively, and all references to Customer Port Connections or ports in other sections of this Guidebook shall be deemed to refer to both Basic Ports and PPCOS Ports.

(1) Basic Service Arrangement

This type of service provides transport of data using a fixed class of service for each Ethernet virtual connection.

(a) Basic Customer Port Connection (Basic port)

This component provides the physical transport facilities from the Customer's premises to an Ethernet switch at the Telephone Company central office. The Customer Port Connection is available at transmission speeds of 100 Mbps, 1 Gbps and 10 Gbps.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.1 Service Description (Cont'd)

(H) (Cont'd)

(1) Basic Service Arrangement (Cont'd)(b) Committed Information Rate (CIR) and Class of Service (CoS)

CIR, sometimes referred to as the "Logical Channel" of the port, provides the bandwidth available on a Customer Port Connection. CIR is available per Customer Port Connection in increments ranging from 2 Mbps to 10,000 Mbps. CIR is offered with multiple choices for CoS. CoS establishes the performance characteristics of the network that are suitable for certain applications. Each Customer Port Connection (port) has a single CIR and CoS associated with it. CoS options are listed as a hierarchy, from "highest" to "lowest" based on network prioritization and performance as follows:

- Real-Time: Supports applications that require minimal loss, are latency-sensitive and require low latency variation (jitter), including voice and video. The service parameters associated with Real-Time CoS are Packet Delivery Rate (PDR), Latency, Jitter, and Network Availability.
- Interactive: Supports high-priority business data applications or jitter-sensitive applications such as voice and video. The service parameters associated with Interactive CoS are PDR, Latency, Jitter, and Network Availability.
- Business Critical-High: Supports most business data applications with moderate tolerance for delay and which are more sensitive to jitter and have a higher priority than Business Critical-Medium. The service parameters associated with Business Critical-High CoS are PDR, Latency, and Network Availability.
- Business Critical-Medium: Supports most business data applications with moderate tolerance for delay and which are less sensitive to jitter. The service parameters associated with Business Critical-Medium CoS are PDR, Latency, and Network Availability.
- Non-Critical High: Supports low priority business applications with more tolerance for delay and availability. The service parameters associated with Non-Critical High CoS are PDR, Latency, and Network Availability.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.1 Service Description (Cont'd)

(H) (Cont'd)

(1) Basic Service Arrangement (Cont'd)(c) Ethernet Virtual Circuits (EVC)

An EVC provides a logical connection to enable the flow of Ethernet traffic for point-to-point and multipoint Customer configurations. Standard EVCs are not billed to the Customer as a separate rate element. Each EVC is assigned a CIR and CoS that must be equal to or lower than the CIR and CoS of the Port.

Point-to-point EVCs can be set in 1 Mbps increments from 1 Mbps to 2000 Mbps. Multipoint EVCs can be set in 1 Mbps increments from 1 Mbps to 1000 Mbps. Requests for EVC CIR above these limits will be evaluated on an Individual Case Basis, taking into consideration factors such as facility conditions and the impact of the requested configuration on network performance.

The total assigned bandwidth (sum of the CIR for all EVCs) on a single port cannot exceed the selected CIR of that port.

Point-to-point EVCs must be symmetrical; the EVC CIR at each port must be the same.

For multipoint EVCs, the CIR for any EVC may be set according to the bandwidth needed at that port and does not need to be the same at all ports. Ports that do not meet SLA objectives due to overloading of traffic in a multipoint arrangement will not be eligible for the PDR SLA.

The aggregate assigned CIR for all EVCs between any two Customer Port Connections cannot exceed 2000 Mbps (for point-to-point EVCs) or 1000 Mbps (for multipoint EVCs), except when approved on an Individual Case Basis.

The following chart provides the maximum number of EVCs supported for point-to-point and multipoint configurations on each Customer Port Connection:

Per Customer Port Connection	EVCs
100 Mbps	Up to 8 EVCs
1 Gbps	Up to 64 EVCs
10 Gbps	Up to 508 EVCs

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.1 Service Description (Cont'd)

(H) (Cont'd)

(1) Basic Service Arrangement (Cont'd)(c) Ethernet Virtual Circuits (EVC) (Cont'd)

Customers may configure EVCs as point-to-point (connecting two locations) or as multipoint (connecting three or more locations), as defined above. Point-to-point EVCs (i.e. EVCs between two ports) can be associated with an unlimited number of MAC addresses. Multipoint EVCs (i.e., EVCs between three or more ports) will be limited to 250 MAC addresses per multipoint EVC on each port, unless the Customer purchases the Additional MAC Addresses optional feature. MAC addresses associated with point-to-point EVCs do not count against this limit. For example, a port that is provisioned with 3 separate multipoint EVCs may have up to 250 MAC addresses associated with each of those EVCs, for a total of 750 MAC addresses in use on that port, but each EVC is still limited to a maximum of 250 MAC addresses.

(d) Frame Size

Ultimate Switched Ethernet Service will be configured to support Ethernet frame sizes up to 9126 bytes on a 100 Mbps, 1 Gbps and 10 Gbps port. Frame sizes on 100 Mbps* and 1 Gbps ports may be restricted to less than 9126 bytes when the port is provisioned with a CIR speed of 10 Mbps or less but will allow at least 1526 bytes.

(2) Per Packet Class of Service Arrangement

This service arrangement provides transport of data with variable Classes of Service within an Ethernet virtual connection, using a feature called "Per Packet Class of Service" or "PPCoS." With this serving arrangement, the Customer applies a priority identifier to each Ethernet frame (packet) within an EVC, and the packet is given the associated CoS priority level within the network.

PPCoS Service Arrangement is offered where suitable PPCoS facilities exist, and may not be available at all locations for which the Basic Service Arrangement is available.

* 100 Mbps ports installed prior to December 1, 2013, may be limited to 1526 bytes.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.1 Service Description (Cont'd)

(H) (Cont'd)

(2) Per Packet Class of Service Arrangement (Cont'd)(a) PPCoS Customer Port Connection (PPCoS port)

This component provides the physical transport facilities from the Customer's premises to an Ethernet switch at the Telephone Company central office. The Customer Port Connection is available at transmission speeds of 100 Mbps, 1 Gbps and 10 Gbps.

(b) Committed Information Rate (CIR) and Class of Service (CoS) Packages

CIR, sometimes referred to as the "Logical Channel" of the port, provides the bandwidth available on a Customer Port Connection. CIR is available per Customer Port Connection in increments ranging from 2 Mbps to 10,000 Mbps.

Under the PPCoS Service Arrangement, CIR is offered in "packages" that specify the maximum percentage of traffic that may be assigned a given Class of Service in a variety of combinations. Each PPCoS port will be ordered with one PPCoS CIR package. Customers may select a PPCoS CIR package that best matches the characteristics of their data and its associated priority levels.

PPCoS Packages (listed in hierarchical order from highest priority to lowest priority):

1. **Multimedia High** - Allows Customer to designate up to 100% of port CIR as "Real Time" and remaining percentage (if any) can be divided among any/all CoS (below Real Time) as ordered.*
2. **Multimedia Standard** - Allows Customer to designate up to 50% of port CIR as "Real Time" and the remaining percentage can be divided among any/all CoS (below Real Time) as ordered.*
3. **Critical Data** - Allows Customer to designate up to 80% of port CIR as "Business Critical - High" and the remaining percentage can be divided among any/all CoS (below Business Critical - High) as ordered.*
4. **Business Data** - Allows Customer to designate up to 90% of port CIR as "Business Critical - Medium" and the remaining percentage can be divided among any/all CoS (below Business Critical - Medium) as ordered.*

* These CoS settings may be ordered in 5% increments (between 5% and 30%) and in 10% increments (from 40% to 100%).

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.1 Service Description (Cont'd)

(H) (Cont'd)

(2) Per Packet Class of Service Arrangement (Cont'd)(c) Per Packet Class of Service - Classes of Service

The PPCoS CIR packages are provisioned on PPCoS ports and allow the customer to apply a CoS priority indicator to each Ethernet frame (packet) and the company will route the packet with the assigned CoS priority. The customer-assigned priority will signify which of the following six Classes of Service the company will apply to that frame. PPCoS Ports support the same Classes of Service as are supported by the Basic Service Arrangement, plus an additional Class of Service (Non-Critical - Low) as described below. CoS options are listed as a hierarchy, from "highest" to "lowest" based on network prioritization and performance as follows:

- Real-Time
- Interactive
- Business Critical-High
- Business Critical-Medium
- Non-Critical High
- Non-Critical Low: Supports the lowest priority traffic.

(d) PPCoS Scheduling Method

PPCoS ports can be ordered in one of two available configurations in order to support different "scheduling methods." The Ultimate Switched Ethernet Service network components will create a separate queue for each CoS served according to its weight/priority to ensure that higher CoS packets are prioritized over lower, but that even the lowest CoS is not "starved".

Port-Level Scheduling: Under this method, the company will prioritize all traffic on the port using a single queue schedule, so that the specified percentages of each priority are allowed to transit the network. This is the only option applicable to "port-based" service. This method can also be used for VLAN-based ports if the Customer desires CoS priority to be applied as a single queue at the port level.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.1 Service Description (Cont'd)

(H) (Cont'd)

(2) Per Packet Class of Service Arrangement (Cont'd)(d) PPCoS Scheduling Method (Cont'd)

VLAN Level Scheduling: Under this method, there are individual scheduling queues for each VLAN on the port and the priority or volume of packets on one VLAN have no impact on another VLAN. This may be appropriate when the Customer needs each VLAN to have its own prioritization schedule without impacting other VLANs on the port.

Requests to change the type of PPCoS Scheduling Method of an existing port may require a new port to be ordered.

(e) Ethernet Virtual Circuits (EVC)

An EVC provides a logical connection to enable the flow of Ethernet traffic for point-to-point and multipoint Customer configurations. Standard EVCs are not billed to the Customer as a separate rate element. Each EVC is assigned a CIR that must be equal to or lower than the CIR of the Port. Under the PPCoS serving arrangement, each EVC must also be given a CoS profile specifying the proportion of each desired CoS (% of each CoS) on that EVC. The CoS allocation must be within the limits of the CIR package subscribed on that PPCoS port.

Point-to-point EVCs can be set in 1 Mbps increments from 1 Mbps to 2000 Mbps. Multipoint EVCs can be set in 1 Mbps increments from 1 Mbps to 1000 Mbps. Requests for EVC CIR above these limits will be evaluated on an Individual Case Basis, taking into consideration factors such as facility conditions and the impact of the requested configuration on network performance.

The total assigned bandwidth (sum of the CIR for all EVCs) on a single port cannot exceed the selected CIR of that port.

Point-to-point EVCs must be symmetrical; the EVC CIR at each port must be the same.

For multipoint EVCs, the CIR for any EVC may be set according to the bandwidth needed at that port and does not need to be the same at all ports. Ports that do not meet SLA objectives due to overloading of traffic in a multipoint arrangement will not be eligible for the PDR SLA.

The aggregate assigned CIR for all EVCs between any two Customer Port Connections cannot exceed 2000 Mbps (for point-to-point EVCs) or 1000 Mbps (for multipoint EVCs), except when approved on an Individual Case Basis.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.1 Service Description (Cont'd)

(H) (Cont'd)

(2) Per Packet Class of Service Arrangement (Cont'd)(e) Ethernet Virtual Circuits (EVC) (Cont'd)

The following chart provides the maximum number of EVCs supported for point-to-point and multipoint configurations on each Customer Port Connection:

Per Customer Port Connection	EVCs
100 Mbps	Up to 8 EVCs
1 Gbps	Up to 64 EVCs
10 Gbps	Up to 508 EVCs

Customers may configure EVCs as point-to-point (connecting two locations) or as multipoint (connecting three or more locations), as defined above. Point-to-point EVCs (i.e., EVCs between two ports) can be associated with an unlimited number of MAC addresses. Multipoint EVCs (i.e., EVCs between three or more ports) will be limited to 250 MAC addresses per multipoint EVC on each port, unless the Customer purchases the Additional MAC Addresses optional feature. MAC addresses associated with point-to-point EVCs do no count against this limit. For example, a port that is provisioned with 3 separate multipoint EVCs may have up to 250 MAC addresses associated with each of those EVCs, for a total of 750 MAC addresses in use on that port, but each EVC is still limited to a maximum of 250 MAC addresses.

(f) Frame Size

Ultimate Switched Ethernet Service will be configured to support Ethernet frame sizes up to 9126 bytes on a 100 Mbps, 1 Gbps and 10 Gbps port. Frame sizes on 100 Mbps* and 1 Gbps ports may be restricted to less than 9126 bytes when the port is provisioned with a CIR speed of 10 Mbps or less but will allow at least 1526 bytes.

* 100 Mbps ports installed prior to December 1, 2013, may be limited to 1526 bytes.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.1 Service Description (Cont'd)

(H) (Cont'd)

(3) Optional Features and Functions(a) Regenerator

Regenerators provide detection and retransmission of Ethernet signals and are used to provide service when the distance to an Ethernet switch exceeds otherwise applicable design limits. The Telephone Company will determine whether regenerators are needed and what transport medium and equipment will be used to provide regeneration. Regenerators are available on a per-port basis and are available for 100 Mbps, 1 Gbps and 10 Gbps ports.

(b) Additional MAC Addresses

The Additional MAC Address feature is offered on a per port basis. When a Customer subscribes to this feature, the MAC address limit associated with multipoint EVCs (as shown in (H) (2) (e), preceding) shall be increased from 250 to 500 for each multipoint EVC present on that port.

(c) Alternate Serving Switch

The Alternate Serving Switch option allows Customers to order Ultimate Switched Ethernet Service from an Ultimate Switched Ethernet Service switch that is different from the Ultimate Switched Ethernet Service switch that would normally serve the Customer's premises. The Alternate Serving Switch charges apply for mileage measured between the Ultimate Switched Ethernet Service alternate switch wire center and the Customer's premises serving wire center.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.1 Service Description (Cont'd)

(H) (Cont'd)

(3) Optional Features and Functions (Cont'd)(d) Diverse Access

Diverse Access is a feature that provides transmission paths, which are diverse from each other as provided in this Section, between two designated Ultimate Switched Ethernet Service Port Connections at the same Customer premises and an Ultimate Switched Ethernet Service switch. These two designated Port Connections must be purchased by the same Customer of record and must be either 1 Gbps or 10 Gbps. Customers purchasing Diverse Access will be charged a Diverse Access feature charge associated with each of the two designated Port Connections.

Each designated Port Connection will be provisioned on different Network Terminating Equipment (NTE). The fiber path from each designated Port Connection to the Ultimate Switched Ethernet Service serving switch will be diverse from the path for the other designated Port Connection, from the closest available point of divergence (e.g., the closest manhole to the Customer premises or the closest Serving Wire Center to the Customer premises) and, where alternate switches are available, will be terminated on a different Ultimate Switched Ethernet Service switch. In the event of an outage affecting one of the designated Port Connections, the Customer will be responsible for re-routing their traffic to the other designated Port Connection.

Diverse Access does not include construction of dual entrance facilities. If a Customer desires dual entrance facilities and they do not currently exist, arrangements must be made for constructing dual entrance facilities at the Customer's expense.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.1 Service Description (Cont'd)

(H) (Cont'd)

(3) Optional Features and Functions (Cont'd)(e) Advanced Access Failover

Advanced Access Failover ("AAF") provides automatic failover to a redundant facility in the event of a failure of a protected facility.

When a port is ordered with an AAF serving arrangement, it will be constructed with a single Customer interface, but with additional facilities within the network. There will be two fiber pairs (instead of the normal single pair) connecting the Network Terminating Equipment (NTE) to two different routers in the Switched Ethernet core network. These two fiber pairs will be diverse from each other from the closest available point of divergence (e.g., the closest manhole to the Customer premises or the closest Serving Wire Center to the Customer premises). The two facilities will operate in a "hot/standby" arrangement where "hot" represents the actively used transmission path and "standby" represents an alternate path that is unused until needed. In the event the Ultimate Switched Ethernet Service network senses a disruption to a diverse portion of the facilities, it will automatically failover from the hot path to the standby path and the Ethernet Virtual Circuits (EVCs) associated with that port will continue to operate over the standby path. AAF does not include construction of dual entrance facilities. If a Customer desires dual entrance facilities and they do not currently exist, arrangements must be made for constructing dual entrance facilities at the Customer's expense.

AAF is available only for 1Gbps or 10Gbps Customer Port Connections and is ordered on a per port basis.

(f) Enhanced Multicast

The Enhanced Multicast feature allows the broadcast/multicast/unknown unicast (BUM) traffic limit associated with multipoint EVCs to be increased from 2 Mbps up to 30 Mbps per EVC. The Enhanced Multicast feature is offered on a per port basis. Once the feature is ordered on a port, each multipoint EVC on that port may be provisioned to allow up to 30 Mbps of combined BUM traffic, orderable in 1 Mbps increments. EVC orders for such ports that do not specify a higher limit as allowed under this feature will be limited to the standard default of 2 Mbps BUM limit.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.2 Service Level Agreement (SLA)(A) Class of Service (CoS) SLA

CoS SLA credits will be granted for Ultimate Switched Ethernet Service if the Telephone Company fails to meet service parameters (i.e., Latency, Packet Delivery Rate (PDR) and Jitter) defined for each CoS, subject to the following terms and conditions:

- (1) The Customer must notify the Telephone Company when the service parameters within any calendar month fail to meet the committed level.
- (2) The Customer must request a service credit within 45 days after the end of the month when the failure occurred.
- (3) Upon verification by the Telephone Company that the actual service performance for that parameter failed to meet the committed level, the Telephone Company has one month to correct the problem.
- (4) If after one month, the service performance for that parameter is still failing to meet the committed level, the Customer will be provided a service credit equal to 25% of the monthly recurring charge for all affected ports (for each of the SLAs other than Network Availability). Only one such credit, per port, shall be applied per calendar month.
- (5) Latency may vary on ports with Real Time CIR of 10 Mbps or below and Real Time EVCs on such ports are excluded from calculations that determine whether the latency SLA is met.
- (6) Real Time EVCs between ports that are connected with an inter-Central Office facilities path extending more than 200 miles or those with EVC CIRs in excess of 1000 Mbps and/or using a PPCoS serving arrangement with a package exceeding 1000 Mbps Real Time are not subject to the Real Time Latency SLA and are excluded from calculations that determine whether the Latency SLA is met.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.2 Service Level Agreement (SLA)(A) Class of Service (CoS) SLA (Cont'd)(7) Latency, Jitter, and Packet Delivery Rate (PDR) SLA

Latency, Jitter and Packet Delivery Rate (PDR) are measured by averaging sample measurements taken during a calendar month between the NTE to which the Customer ports are attached (i.e., end to end), when the Ultimate Switched Ethernet Service network is available for use by the Customer. The SLA service parameters are based on a LATA-wide average of the Customer's one-way traffic traversing the NTE and the network. The SLA target for Latency and Jitter is to be not more than, and for PDR is to be not less than, the applicable amount set forth in the table below.

The following table displays the CoS SLA service parameters:

Class of Service	Service Measurement		
	Latency (one-way)	Jitter	Packet Delivery Rate (PDR)
Real Time	5 ms	3 ms	99.995%
Interactive	13 ms	10 ms	99.95%
Business Critical - High	20 ms	n/a	99.9%
Business Critical - Medium	30 ms	n/a	99.9%
Non-Critical High	50 ms	n/a	99.5%
Non-Critical Low*	n/a	n/a	n/a

* This CoS is only offered as part of the PPCoS Package.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.2 Service Level Agreement (SLA) (Cont'd)(B) Network Availability SLA

The SLA service parameter for Network Availability is to be not less than 99.99% for all ports regardless of Class of Service. Network Availability is calculated as the percentage of time during a month that the network is capable of accepting and delivering Customer data during the measurement period. Network Availability includes the Ethernet core network and the local loop, and the calculation excludes maintenance windows. The calculation for Network Availability for a given month is as follows:

Network Availability = [(24 hours x days in the month x 60 minutes x number of Customer ports in the LATA) - network outage time] / (24 hours x days in the month x 60 minutes x number of Customer ports in the LATA).

The Customer is responsible for (1) notifying the company within 45 days after the end of the month when the Network Availability within the calendar month falls below the committed level, and (2) requesting a service credit.

Upon verification by the company that the actual service performance for Network Availability was less than the committed level, the Customer will be provided a service credit equal to 10 percent of the Monthly Recurring Charge (MRC) for all affected ports.

(C) Credit Allowance for Service Interruptions

Service is considered to be interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this Guidebook. The interruption must result in the complete loss of service by the customer. An interruption period starts when an inoperative service is reported to the Telephone Company and ends when the service is operative.

The credit allowance for an interruption or for a series of interruptions shall be calculated based on the applicable monthly rate for the port (or ports) which were interrupted, including the other rate elements associated with that port (CIR, repeater, etc.). No credit shall be applicable to other ports on the network that were uninterrupted, even if they were unable to connect to an interrupted port.

No credit shall be allowed for an interruption period 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 fraction thereof that the interruption continues after the initial 30 minute interruption.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.2 Service Level Agreement (SLA) (Cont'd)(D) SLA Exclusions

The SLA provisions, measurements, and eligibility for credit shall exclude conditions wherein service performance was adversely affected by any of the following conditions:

- (1) Any cause beyond the Telephone Company's reasonable control (force majeure events) including, but not limited to, acts of war, civil disturbances, acts of civil or military authorities or public enemies, earthquakes, hurricanes, floods, fires, storms, tornadoes, explosions, lightning, power surges or failures, fiber cuts, strikes or labor disputes;
- (2) Failures of any structures, facilities or equipment provided by the Customer or its contractors, equipment vendors, or by any carrier or service provider other than the Telephone Company;
- (3) Interruptions caused by the negligence of the customer.
- (4) Interruptions of a service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.
- (5) When the Telephone Company and the Customer negotiate the release of the service for (1) maintenance purposes, (2) to make rearrangements or (3) to implement an order for a change in the service, a credit does not apply during the negotiated time of release.
- (6) Periods when the customer elects not to release the service for testing and/or repair and continues to use it on an impaired basis.
- (7) Data loss during the Telephone Company's scheduled maintenance windows;
- (8) Data exceeding subscribed CIR;
- (9) Failures of any structures, facilities or equipment on the Customer's side of the demarcation point.

The total credit amount of any allowances for interruptions and SLA credits applicable in a given month shall not exceed 100% of the monthly recurring charge for the port and associated rate elements.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)

25.1.3 Limitations and Provisioning

- (A) A Customer shall not be permitted to temporarily suspend service.
- (B) The Telephone Company may use controls to limit the amount of multicast, broadcast, and unknown unicast traffic to protect the Switched Ethernet network against traffic storms. The maximum throughput of combined multicast/ broadcast/unknown unicast traffic will be set at 2 Mbps per EVC on multipoint EVCs, unless the Customer purchases the Enhanced Multicast optional feature in Section 25.1.1, (H) (3) (g), above. There is no restriction on point-to-point or point-to-multipoint multicast traffic. Packets dropped by traffic controls are not included in SLA calculations. The Telephone Company recommends that Customers enable controls for multicast, broadcast, and unknown unicast traffic within the Customer network(s).

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.4 Ethernet Payment Plan (EPP)

- (A) To subscribe to Ultimate Switched Ethernet Service, the Customer must select one of the EPP options below. The service is not available to be subscribed to on a month-to-month basis.

Ethernet Payment Plan Options				
12 Months	24 Months	36 Months	48 months	60 months

- (B) Nonrecurring charges shown in 25.1.6, following, will be waived for Customers subscribing to new service under an EPP, or for Customers subscribing to a new EPP for an existing service, subject to (F), below. For moves of service and service reconfigurations, nonrecurring charges will apply as specified in (G) and (H), following.
- (C) During the Customer's EPP term, Telephone Company initiated recurring rate changes (i.e., rate increases or decreases) will be automatically applied to the Customer's EPP rates for the months remaining in the Customer's EPP term. However, at no time during the Customer's EPP term will rates exceed the Customer's initial EPP rates.
- (D) When an EPP term expires, the Customer may select a new EPP term from among any EPP options which are then available to new Customers hereunder. EPP rates in effect at the time the new EPP term starts will apply. If the Customer selects such new EPP term at least 90 days in advance of the existing EPP term expiration date, the new EPP term will begin immediately upon the expiration of the existing EPP term. If the Customer selects such new EPP term, but does not do so at least 90 days in advance of the existing EPP term expiration date, the Term Extension Month-to-Month Rates will apply between the expiration of the existing EPP term and the date upon which the Telephone Company implements the new EPP term in its billing system.
- (E) The Term Extension Month-to-Month (MTM) rates in 25.1.6, following will apply when a Customer's EPP term expires. The Customer will be billed the MTM rates in effect from time to time until such time as the Customer selects a new EPP or the Service is terminated.
- (F) Termination Liability will apply if the Customer disconnects service prior to the end of the selected EPP. Termination Liability will be determined based on the number of months remaining in the EPP term times 50% of the applicable EPP monthly rates, calculated as follows:

$$[(\text{EPP Monthly Rates}) \times (\text{Months Remaining in EPP Term})] \times 50\%$$

In addition, the Customer must pay all nonrecurring charges that were waived, as specified in (B), above.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.4 Ethernet Payment Plan (EPP) (Cont'd)(G) Moves

Moves involve a change in the physical location of one of the following:

- Point of service demarcation in the same building; or
- Change of Customer premises to a new building

- (1) When the move is to a different location within the same building (i.e., results in a different point of service demarcation in the same building, such as a move to a different floor), previously waived nonrecurring charges associated with the existing service (if still under term) will be charged for all service components affected.

A new EPP term is not required (if still under EPP term) and Termination Liability will not apply for such a move. For move requests from customers who have completed an EPP term and are currently being billed Term Extension MTM rates, a new EPP is required for the service at the new location.

- (2) When the move is to a different building (i.e., a different Customer premises), such a move is treated as a discontinuance of service and activation of new service. The previously waived non-recurring charges at the disconnecting location will be billed (if EPP term has not expired).

The Customer must select an EPP term for the new service at the new location. The new EPP term will be subject to the rates in effect at the time of the move. Termination liability will also apply for such a move except where all of the following conditions apply:

- (a) The existing and new service locations must be served by the same serving wire center.
- (b) The Customer's existing service must have been in place for at least 12 months.
- (c) The Customer must select a new EPP with a term that is greater than or equal to the remainder of the existing EPP.
- (d) Orders from the Customer to disconnect the existing service and reestablish service at the new location must be placed by the Customer and received by the Telephone Company on the same date.
- (e) No lapse in billing will occur for moves of service under an EPP. If the Customer requests that both the existing Ultimate Switched Ethernet Service and the new Ultimate Switched Ethernet Service be in service at same time, such "overlapping" service shall be provided for no more than 30 days, and all applicable charges will be billed for both services during the period of overlapping service.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)

25.1.4 Ethernet Payment Plan (EPP) (Cont'd)

(H) Service Reconfigurations

The Customer may reconfigure service, subject to the conditions below.

(1) Reconfigurations Involving Changes to the Customer Port Connection:

- (a) For reconfigurations to a higher-capacity Customer Port Connection, or from a Basic Port to a PPCoS Port, previously waived nonrecurring charges associated with the existing service will be charged for all service components affected if such reconfiguration occurs prior to the expiration of the EPP term. An example of such upgrade would be a change from a 1 Gbps to a 10 Gbps Customer Port Connection. The Customer must select a new EPP term for the new configuration. The new EPP term will be subject to the rates in effect at the time of the reconfiguration.

EPP Termination Liability will not apply, subject to the following conditions:

- The upgraded service must be at a higher capacity than the existing service; and
 - The new and existing services must be billed to the same Customer of record at the same Customer location; and
 - The new EPP term selected is equal to or greater than the remainder of the EPP term of the disconnected service.
- (b) For reconfigurations to a lower capacity of the Customer Port Connection, or from a PPCoS Port to a Basic Port, EPP Termination Liability and nonrecurring charges will apply as set forth in (F), preceding, to all service components affected. An example of such a downgrade would be a change from a 1 Gbps to 100 Mbps Customer Port Connection. The Customer must select a new EPP term for the reconfigured service. The new EPP term will be subject to the rates in effect at the time of the reconfiguration.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)

25.1.4 Ethernet Payment Plan (EPP) (Cont'd)

(H) Service Reconfigurations (Cont'd)

The Customer may reconfigure service, subject to the conditions below.
(Cont'd)

(2) Reconfigurations Involving Changes to the CoS and CIR

Reconfigurations that require changes to the CoS, PPCoS Package, or CIR are subject to the nonrecurring charges associated with the new CoS, PPCoS Package, or CIR service components. EPP Termination Liability will not apply to such reconfigurations. The term effective dates associated with the Customer Port Connection shall apply to the associated CIR/CoS. For example, a customer with a 60-month term on original port and CIR configuration may change the CIR in month 48, while still keeping the original EPP expiration date associated with both port and CIR.

(3) Other Reconfigurations

- (a) For reconfigurations not defined in (1) or (2), preceding, the nonrecurring charge associated with the Customer Port Connection will apply. An example of such change would be a Customer-requested change from a multi-mode fiber interface to a single-mode fiber interface. EPP Termination Liability will not apply to such reconfiguration changes.
- (4) For any of the reconfigurations described above, any Customer that has completed an EPP term and is being billed at Term Extension MTM rates must select a new EPP term for the reconfigured service.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.4 Ethernet Payment Plan (EPP) (Cont'd)(I) Upgrades to a Higher Level of Service

A Customer may upgrade from Ultimate Switched Ethernet Service to a different service provided by the Telephone Company, as provided herein. EPP Termination Liability will not apply, if all of the following conditions are met:

(a) Either:

- The new service as requested by the Customer must be at a transport speed or capacity greater than the speed or capacity of Ultimate Switched Ethernet Service, or
- The new service must offer the same transport speed or capacity as available with Ultimate Switched Ethernet Service and include technology or functionality not available with Ultimate Switched Ethernet Service.

(b) The new service and existing Ultimate Switched Ethernet Service must be billed to the same Customer of record at the same Customer location.

(c) The Customer's existing Ultimate Switched Ethernet Service must have been in place for at least 12 months.

(d) The minimum term for the new service must be equal to or greater than the remainder of the Customer's existing EPP term.

(e) The order for the new service and the disconnect order for the existing service must be placed by the Customer and received by the Telephone Company on the same date.

(f) If the Customer requests that both the existing Ultimate Switched Ethernet Service and the new higher level service be in service at the same time, such "overlapping" service shall be provided for no more than 90 days, and all applicable charges will be billed for both services during the period of overlapping service.

(g) Nothing in this section shall prohibit upgrades within the Ultimate Switched Ethernet Service as allowed under the terms contained elsewhere in this Tariff.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.5 Rate Conditions

(A) Ultimate Switched Ethernet Service components and associated charges are set forth in (B), below.

(B) Rate Elements(1) Basic Service Arrangement(a) Customer Port Connection (Basic Port)

EPP monthly rates apply, per port, for transmission speeds of 100 Mbps, 1 Gbps and 10 Gbps.

(b) Class of Service (CoS), Committed Information Rate (CIR)

The Customer must select a CIR for each Basic Port. The CIR for the Basic Service Arrangement has five choices for fixed CoS. The CIR selected cannot exceed the Customer Port Connection capacity. Table A, below, shows the CIR available for each Customer Port Connection.

Table A

Customer Port Connection	CIR Bandwidth Supported
100 Mbps	2 Mbps - 100 Mbps
1 Gbps	2 Mbps - 1000 Mbps
10 Gbps	1000 Mbps - 10,000 Mbps

(2) PPCOS Service Arrangement(a) Customer Port Connection (PPCOS Port)

EPP monthly rates apply, per port, for transmission speeds of 100 Mbps, 1 Gbps and 10 Gbps.

(b) Class of Service (CoS), Committed Information Rate (CIR)

The Customer must select a CIR for each PPCoS Port. The CIR for the PPCoS Service Arrangement has 4 "packages" that specify the maximum percentage of traffic that may be assigned a given Class of Service in a variety of combinations. Customers may select a PPCoS CIR package that best matches the characteristics of their data and its associated priority levels. The CIR selected cannot exceed the Customer Port Connection capacity. Table B, below, shows the CIR available for each Customer Port Connection.

Table B

Customer Port Connection	CIR Bandwidth Support
100 Mbps	2 Mbps - 100 Mbps
1 Gbps	2 Mbps - 1000 Mbps
10 Gbps	1000 Mbps - 10,000 Mbps

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)

25.1.5 Rate Conditions (Cont'd)

(B) Rate Elements (Cont'd)

(3) Optional Features and Functions

(a) Additional MAC Addresses

A nonrecurring charge and monthly charge apply, per port, for increasing the MAC address limit to 500 MAC addresses per Multipoint EVC.

(b) Regenerator

EPP monthly rates, non-recurring charges and Term Extension MTM Rates apply to Regenerators, as applicable.

(c) Alternate Serving Switch

EPP monthly rates apply for mileage from the alternate Ultimate Switched Ethernet Service switch to the Customer's premises serving wire center. Mileage is provided in four mileage bands up to 50 miles, as shown in 25.1.6(C), following.

(d) Enhanced Multicast

EPP monthly rates apply to each port provisioned with the feature. An Administrative Charge will apply for adding or removing the Enhanced Multicast Feature on an existing port. Rates are set forth in Section 25.1.6(C), following.

(4) Administrative Charge

The Administrative Charge is a non-recurring charge that applies for each Access Order. The Administrative Charge will be waived for all orders requesting new service. Administrative Charges for Ultimate Switched Ethernet Service are set forth in 25.1.6(C), following.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 25-25

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)

25.1.6 Rates and Charges

(A) Basic Service Arrangement

(1) Customer Port Connection Basic Port

Rate Element#	Nonrecurring Charges*	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
Customer Port Connection							
100 Mbps Port	\$1,925.00	\$780 .00	\$750.00	\$650.00	\$610.00	\$575.00	\$925.00
1 Gbps Port	\$2,100.00	\$1,200.00	\$1,150.00	\$1,000.00	\$925.00	\$850.00	\$1,400.00
10 Gbps Port	\$15,750.00	\$10,000.00	\$9,500.00	\$7,500.00	\$6,500.00	\$5,750.00	\$10,500.00

* Nonrecurring Charges are waived for service ordered under an EPP as specified in 25.1.4 (B).

Table A in 25.1.5 (B) (1) (b) shows the CIR bandwidth supported on each Customer Port Connection.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 25-26

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.6 Rates and Charges (Cont'd)(A) Basic Service Arrangement (Cont'd)

(2) Real Time Class of Service Committed Information Rate

Real Time Class of Service Committed Information Rate							
Rate Element#	Nonrecurring Charges*	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	\$150.00	\$1,150.00	\$510.00	\$460.00	\$460.00	\$460.00	\$1,200.00
4 Mbps CIR	\$150.00	\$1,175.00	\$550.00	\$500.00	\$500.00	\$500.00	\$1,275.00
5 Mbps CIR	\$150.00	\$1,250.00	\$650.00	\$590.00	\$590.00	\$590.00	\$1,350.00
8 Mbps CIR	\$150.00	\$1,275.00	\$750.00	\$680.00	\$680.00	\$680.00	\$1,375.00
10 Mbps CIR	\$150.00	\$1,345.00	\$1,010.00	\$910.00	\$910.00	\$910.00	\$1,475.00
20 Mbps CIR	\$150.00	\$1,880.00	\$1,300.00	\$1,180.00	\$1,180.00	\$1,180.00	\$2,070.00
50 Mbps CIR	\$150.00	\$2,090.00	\$1,460.00	\$1,320.00	\$1,320.00	\$1,320.00	\$2,300.00
100 Mbps CIR	\$150.00	\$2,370.00	\$1,650.00	\$1,500.00	\$1,500.00	\$1,500.00	\$2,620.00
150 Mbps CIR	\$150.00	\$3,020.00	\$1,780.00	\$1,610.00	\$1,610.00	\$1,610.00	\$3,330.00
250 Mbps CIR	\$150.00	\$3,350.00	\$2,340.00	\$2,120.00	\$2,120.00	\$2,120.00	\$3,700.00
400 Mbps CIR	\$150.00	\$3,675.00	\$2,570.00	\$2,330.00	\$2,330.00	\$2,330.00	\$4,050.00
500 Mbps CIR	\$150.00	\$3,890.00	\$2,720.00	\$2,470.00	\$2,470.00	\$2,470.00	\$4,280.00
600 Mbps CIR	\$150.00	\$4,430.00	\$3,100.00	\$2,810.00	\$2,810.00	\$2,810.00	\$4,880.00
1000 Mbps CIR	\$150.00	\$5,040.00	\$3,510.00	\$3,190.00	\$3,190.00	\$3,190.00	\$5,550.00
2000 Mbps CIR	\$150.00	\$7,118.00	\$6,050.00	\$5,500.00	\$5,500.00	\$5,500.00	\$7,909.00
2500 Mbps CIR	\$150.00	\$8,542.00	\$7,260.00	\$6,600.00	\$6,600.00	\$6,600.00	\$9,491.00
4000 Mbps CIR	\$150.00	\$10,083.00	\$8,570.00	\$7,790.00	\$7,790.00	\$7,790.00	\$11,203.00
5000 Mbps CIR	\$150.00	\$11,859.00	\$10,080.00	\$9,160.00	\$9,160.00	\$9,160.00	\$13,177.00
7500 Mbps CIR	\$150.00	\$15,577.00	\$13,240.00	\$12,030.00	\$12,030.00	\$12,030.00	\$17,308.00
9500 Mbps CIR	\$150.00	\$18,542.00	\$15,760.00	\$14,320.00	\$14,320.00	\$14,320.00	\$20,602.00
10000 Mbps CIR	\$150.00	\$19,271.00	\$16,380.00	\$14,890.00	\$14,890.00	\$14,890.00	\$21,412.00

* Nonrecurring Charges are waived for service ordered under an EPP as specified in 25.1.4(B).

Table A in 25.1.5 (B) (1) (b) shows the CIR bandwidth supported on each Customer Port Connection.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 25-27

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.6 Rates and Charges (Cont'd)(A) Basic Service Arrangement (Cont'd)

(3) Interactive Class of Service Committed Information Rate

Interactive Class of Service Committed Information Rate							
Rate Element [#]	Nonrecurring Charges*	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	\$150.00	\$1,075.00	\$470.00	\$425.00	\$425.00	\$425.00	\$1,100.00
4 Mbps CIR	\$150.00	\$1,100.00	\$520.00	\$465.00	\$465.00	\$465.00	\$1,175.00
5 Mbps CIR	\$150.00	\$1,175.00	\$610.00	\$550.00	\$550.00	\$550.00	\$1,250.00
8 Mbps CIR	\$150.00	\$1,200.00	\$700.00	\$635.00	\$635.00	\$635.00	\$1,275.00
10 Mbps CIR	\$150.00	\$1,270.00	\$940.00	\$850.00	\$850.00	\$850.00	\$1,375.00
20 Mbps CIR	\$150.00	\$1,630.00	\$1,210.00	\$1,100.00	\$1,100.00	\$1,100.00	\$1,800.00
50 Mbps CIR	\$150.00	\$1,810.00	\$1,350.00	\$1,225.00	\$1,225.00	\$1,225.00	\$2,000.00
100 Mbps CIR	\$150.00	\$2,060.00	\$1,540.00	\$1,400.00	\$1,400.00	\$1,400.00	\$2,270.00
150 Mbps CIR	\$150.00	\$2,620.00	\$1,650.00	\$1,500.00	\$1,500.00	\$1,500.00	\$2,890.00
250 Mbps CIR	\$150.00	\$2,910.00	\$2,180.00	\$1,975.00	\$1,975.00	\$1,975.00	\$3,210.00
400 Mbps CIR	\$150.00	\$3,195.00	\$2,390.00	\$2,170.00	\$2,170.00	\$2,170.00	\$3,520.00
500 Mbps CIR	\$150.00	\$3,380.00	\$2,530.00	\$2,300.00	\$2,300.00	\$2,300.00	\$3,720.00
600 Mbps CIR	\$150.00	\$3,850.00	\$2,890.00	\$2,625.00	\$2,625.00	\$2,625.00	\$4,240.00
1000 Mbps CIR	\$150.00	\$4,380.00	\$3,280.00	\$2,975.00	\$2,975.00	\$2,975.00	\$4,820.00
2000 Mbps CIR	\$150.00	\$6,659.00	\$5,660.00	\$5,140.00	\$5,140.00	\$5,140.00	\$7,399.00
2500 Mbps CIR	\$150.00	\$7,977.00	\$6,780.00	\$6,160.00	\$6,160.00	\$6,160.00	\$8,863.00
4000 Mbps CIR	\$150.00	\$9,424.00	\$8,010.00	\$7,280.00	\$7,280.00	\$7,280.00	\$10,471.00
5000 Mbps CIR	\$150.00	\$11,083.00	\$9,420.00	\$8,560.00	\$8,560.00	\$8,560.00	\$12,314.00
7500 Mbps CIR	\$150.00	\$14,553.00	\$12,370.00	\$11,240.00	\$11,240.00	\$11,240.00	\$16,170.00
9500 Mbps CIR	\$150.00	\$17,318.00	\$14,720.00	\$13,380.00	\$13,380.00	\$13,380.00	\$19,242.00
10000 Mbps CIR	\$150.00	\$18,012.00	\$15,310.00	\$13,910.00	\$13,910.00	\$13,910.00	\$20,014.00

* Nonrecurring Charges are waived for service ordered under an EPP as specified in 25.1.4 (B).

Table A in 25.1.5 (B) (1) (b) shows the CIR bandwidth supported on each Customer Port Connection.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.6 Rates and Charges (Cont'd)(A) Basic Service Arrangement (Cont'd)(4) Business Critical-High Class of Service Committed Information Rate

Business Critical High Class of Service Committed Information Rate							
Rate Element#	Nonrecurring Charges*	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	\$150.00	\$1,038	\$400	\$360	\$360	\$360	\$1,075
4 Mbps CIR	\$150.00	\$1,063	\$455	\$410	\$410	\$410	\$1,125
5 Mbps CIR	\$150.00	\$1,138	\$555	\$500	\$500	\$500	\$1,200
8 Mbps CIR	\$150.00	\$1,163	\$655	\$595	\$595	\$595	\$1,225
10 Mbps CIR	\$150.00	\$1,233	\$830	\$750	\$750	\$750	\$1,325
20 Mbps CIR	\$150.00	\$1,475	\$1,100	\$1,000	\$1,000	\$1,000	\$1,630
50 Mbps CIR	\$150.00	\$1,665	\$1,240	\$1,125	\$1,125	\$1,125	\$1,840
100 Mbps CIR	\$150.00	\$1,920	\$1,430	\$1,300	\$1,300	\$1,300	\$2,115
150 Mbps CIR	\$150.00	\$2,330	\$1,585	\$1,438	\$1,438	\$1,438	\$2,570
250 Mbps CIR	\$150.00	\$2,625	\$1,960	\$1,775	\$1,775	\$1,775	\$2,895
400 Mbps CIR	\$150.00	\$2,900	\$2,170	\$1,970	\$1,970	\$1,970	\$3,195
500 Mbps CIR	\$150.00	\$3,085	\$2,310	\$2,100	\$2,100	\$2,100	\$3,395
600 Mbps CIR	\$150.00	\$3,560	\$2,670	\$2,460	\$2,460	\$2,460	\$3,920
1000 Mbps CIR	\$150.00	\$4,090	\$3,060	\$2,775	\$2,775	\$2,775	\$4,500
2000 Mbps CIR	\$150.00	\$6,436	\$5,470	\$4,970	\$4,970	\$4,970	\$7,151
2500 Mbps CIR	\$150.00	\$7,712	\$6,555	\$5,955	\$5,955	\$5,955	\$8,569
4000 Mbps CIR	\$150.00	\$9,112	\$7,745	\$7,040	\$7,040	\$7,040	\$10,125
5000 Mbps CIR	\$150.00	\$10,718	\$9,110	\$8,280	\$8,280	\$8,280	\$11,909
7500 Mbps CIR	\$150.00	\$14,071	\$11,960	\$10,870	\$10,870	\$10,870	\$15,634
9500 Mbps CIR	\$150.00	\$16,748	\$14,235	\$12,940	\$12,940	\$12,940	\$18,608
10000 Mbps CIR	\$150.00	\$17,418	\$14,805	\$13,455	\$13,455	\$13,455	\$19,353

* Nonrecurring Charges are waived for service ordered under an EPP as specified in 25.1.4(B).

Table A in 25.1.5 (B) (1) (b) shows the CIR bandwidth supported on each Customer Port Connection.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 25-29

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.6 Rates and Charges (Cont'd)(A) Basic Service Arrangement (Cont'd)(5) Business Critical-Medium Class of Service Committed Information Rate

Business Critical-Medium Class of Service Committed Information Rate							
Rate Element#	Nonrecurring Charges*	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	\$150.00	\$1,000.00	\$330.00	\$300.00	\$300.00	\$300.00	\$1,050.00
4 Mbps CIR	\$150.00	\$1,025.00	\$390.00	\$350.00	\$350.00	\$350.00	\$1,075.00
5 Mbps CIR	\$150.00	\$1,100.00	\$500.00	\$450.00	\$450.00	\$450.00	\$1,150.00
8 Mbps CIR	\$150.00	\$1,125.00	\$610.00	\$550.00	\$550.00	\$550.00	\$1,175.00
10 Mbps CIR	\$150.00	\$1,195.00	\$720.00	\$650.00	\$650.00	\$650.00	\$1,275.00
20 Mbps CIR	\$150.00	\$1,320.00	\$990.00	\$900.00	\$900.00	\$900.00	\$1,460.00
50 Mbps CIR	\$150.00	\$1,520.00	\$1,130.00	\$1,025.00	\$1,025.00	\$1,025.00	\$1,680.00
100 Mbps CIR	\$150.00	\$1,780.00	\$1,320.00	\$1,200.00	\$1,200.00	\$1,200.00	\$1,960.00
150 Mbps CIR	\$150.00	\$2,040.00	\$1,520.00	\$1,375.00	\$1,375.00	\$1,375.00	\$2,250.00
400 Mbps CIR	\$150.00	\$2,610.00	\$1,950.00	\$1,770.00	\$1,770.00	\$1,770.00	\$2,875.00
250 Mbps CIR	\$150.00	\$2,340.00	\$1,740.00	\$1,575.00	\$1,575.00	\$1,575.00	\$2,875.00
500 Mbps CIR	\$150.00	\$2,790.00	\$2,090.00	\$1,900.00	\$1,900.00	\$1,900.00	\$3,070.00
600 Mbps CIR	\$150.00	\$3,270.00	\$2,450.00	\$2,225.00	\$2,225.00	\$2,225.00	\$3,600.00
1000 Mbps CIR	\$150.00	\$3,800.00	\$2,840.00	\$2,575.00	\$2,575.00	\$2,575.00	\$4,180.00
2000 Mbps CIR	\$150.00	\$6,212.00	\$5,280.00	\$4,800.00	\$4,800.00	\$4,800.00	\$6,902.00
2500 Mbps CIR	\$150.00	\$7,448.00	\$6,330.00	\$5,750.00	\$5,750.00	\$5,750.00	\$8,275.00
4000 Mbps CIR	\$150.00	\$8,800.00	\$7,480.00	\$6,800.00	\$6,800.00	\$6,800.00	\$9,778.00
5000 Mbps CIR	\$150.00	\$10,353.00	\$8,800.00	\$8,000.00	\$8,000.00	\$8,000.00	\$11,504.00
7500 Mbps CIR	\$150.00	\$13,589.00	\$11,550.00	\$10,500.00	\$10,500.00	\$10,500.00	\$15,099.00
9500 Mbps CIR	\$150.00	\$16,177.00	\$13,750.00	\$12,500.00	\$12,500.00	\$12,500.00	\$17,974.00
10000 Mbps CIR	\$150.00	\$16,824.00	\$14,300.00	\$13,000.00	\$13,000.00	\$13,000.00	\$18,693.00

* Nonrecurring Charges are waived for service ordered under an EPP as specified in 25.1.4 (B).

Table A in 25.1.5 (B) (1) (b) shows the CIR bandwidth supported on each Customer Port Connection.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 25-30

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.6 Rates and Charges (Cont'd)(A) Basic Service Arrangement (Cont'd)(6) Non-Critical High Class of Service Committed Information Rate

Non-Critical High Class of Service Committed Information Rate							
Rate Element#	Nonrecurring Charges*	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	\$150.00	\$925.00	\$310.00	\$290.00	\$290.00	\$290.00	\$950.00
4 Mbps CIR	\$150.00	\$950.00	\$370.00	\$340.00	\$340.00	\$340.00	\$975.00
5 Mbps CIR	\$150.00	\$1,025.00	\$465.00	\$430.00	\$430.00	\$430.00	\$1,050.00
8 Mbps CIR	\$150.00	\$1,050.00	\$570.00	\$530.00	\$530.00	\$530.00	\$1,075.00
10 Mbps CIR	\$150.00	\$1,120.00	\$670.00	\$620.00	\$620.00	\$620.00	\$1,175.00
20 Mbps CIR	\$150.00	\$1,260.00	\$925.00	\$860.00	\$860.00	\$860.00	\$1,390.00
50 Mbps CIR	\$150.00	\$1,450.00	\$1,055.00	\$980.00	\$980.00	\$980.00	\$1,600.00
100 Mbps CIR	\$150.00	\$1,700.00	\$1,230.00	\$1,140.00	\$1,140.00	\$1,140.00	\$1,870.00
150 Mbps CIR	\$150.00	\$1,940.00	\$1,410.00	\$1,310.00	\$1,310.00	\$1,310.00	\$2,140.00
250 Mbps CIR	\$150.00	\$2,230.00	\$1,615.00	\$1,500.00	\$1,500.00	\$1,500.00	\$2,460.00
400 Mbps CIR	\$150.00	\$2,490.00	\$1,815.00	\$1,685.00	\$1,685.00	\$1,685.00	\$2,735.00
500 Mbps CIR	\$150.00	\$2,660.00	\$1,945.00	\$1,810.00	\$1,810.00	\$1,810.00	\$2,920.00
600 Mbps CIR	\$150.00	\$3,110.00	\$2,280.00	\$2,120.00	\$2,120.00	\$2,120.00	\$3,420.00
1000 Mbps CIR	\$150.00	\$3,610.00	\$2,640.00	\$2,450.00	\$2,450.00	\$2,450.00	\$3,980.00
2000 Mbps CIR	\$150.00	\$5,910.00	\$4,920.00	\$4,560.00	\$4,560.00	\$4,560.00	\$6,560.00
2500 Mbps CIR	\$150.00	\$7,080.00	\$5,900.00	\$5,470.00	\$5,470.00	\$5,470.00	\$7,870.00
4000 Mbps CIR	\$150.00	\$8,360.00	\$6,970.00	\$6,460.00	\$6,460.00	\$6,460.00	\$9,290.00
5000 Mbps CIR	\$150.00	\$9,840.00	\$8,200.00	\$7,600.00	\$7,600.00	\$7,600.00	\$10,930.00
7500 Mbps CIR	\$150.00	\$12,910.00	\$10,765.00	\$9,980.00	\$9,980.00	\$9,980.00	\$14,350.00
9500 Mbps CIR	\$150.00	\$15,370.00	\$12,815.00	\$11,880.00	\$11,880.00	\$11,880.00	\$17,080.00
10000 Mbps CIR	\$150.00	\$15,990.00	\$13,325.00	\$12,350.00	\$12,350.00	\$12,350.00	\$17,760.00

* Nonrecurring Charges are waived for service ordered under an EPP as specified in 25.1.4 (B).

Table A in 25.1.5 (B) (1) (b) shows the CIR bandwidth supported on each Customer Port Connection.

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.6 Rates and Charges (Cont'd)(B) PPCOS Service Arrangement

Rate Element #	Nonrecurring Charges*	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
PPCOS Customer Port Connection							
100 Mbps Port	\$1,925.00	\$1,100.00	\$980.00	\$780.00	\$730.00	\$690.00	\$1295.00
1 Gbps Port	\$2,100.00	\$1,680.00	\$1,380.00	\$1,200.00	\$1110.00	\$1020.00	\$1,960.00
10 Gbps Port	\$15,750.00	\$12,000.00	\$11,400.00	\$9,000.00	\$7,800.00	\$6,900.00	\$12,600.00

* Nonrecurring Charges are waived for service ordered under an EPP as specified in 25.1.4(B).

Table B in 25.1.5 (B) (2) (b) shows the CIR bandwidth supported on each Customer Port Connection.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 25-32

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.6 Rates and Charges (Cont'd)(B) PPCOS Service Arrangement (Cont'd)

MultiMedia High Committed Information Rate							
Rate Element#	Nonrecurring Charges*	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	\$150.00	\$1,150.00	\$510.00	\$460.00	\$460.00	\$460.00	\$1,200.00
4 Mbps CIR	\$150.00	\$1,175.00	\$550.00	\$500.00	\$500.00	\$500.00	\$1,275.00
5 Mbps CIR	\$150.00	\$1,250.00	\$650.00	\$590.00	\$590.00	\$590.00	\$1,350.00
8 Mbps CIR	\$150.00	\$1,275.00	\$750.00	\$680.00	\$680.00	\$680.00	\$1,375.00
10 Mbps CIR	\$150.00	\$1,345.00	\$1,010.00	\$910.00	\$910.00	\$910.00	\$1,475.00
20 Mbps CIR	\$150.00	\$1,880.00	\$1,300.00	\$1,180.00	\$1,180.00	\$1,180.00	\$2,070.00
50 Mbps CIR	\$150.00	\$2,090.00	\$1,460.00	\$1,320.00	\$1,320.00	\$1,320.00	\$2,300.00
100 Mbps CIR	\$150.00	\$2,370.00	\$1,650.00	\$1,500.00	\$1,500.00	\$1,500.00	\$2,620.00
150 Mbps CIR	\$150.00	\$3,020.00	\$1,780.00	\$1,610.00	\$1,610.00	\$1,610.00	\$3,330.00
250 Mbps CIR	\$150.00	\$3,350.00	\$2,340.00	\$2,120.00	\$2,120.00	\$2,120.00	\$3,700.00
400 Mbps CIR	\$150.00	\$3,675.00	\$2,570.00	\$2,330.00	\$2,330.00	\$2,330.00	\$4,050.00
500 Mbps CIR	\$150.00	\$3,890.00	\$2,720.00	\$2,470.00	\$2,470.00	\$2,470.00	\$4,280.00
600 Mbps CIR	\$150.00	\$4,430.00	\$3,100.00	\$2,810.00	\$2,810.00	\$2,810.00	\$4,880.00
1000 Mbps CIR	\$150.00	\$5,040.00	\$3,510.00	\$3,190.00	\$3,190.00	\$3,190.00	\$5,550.00
2000 Mbps CIR	\$150.00	\$7,118.00	\$6,050.00	\$5,500.00	\$5,500.00	\$5,500.00	\$7,909.00
2500 Mbps CIR	\$150.00	\$8,542.00	\$7,260.00	\$6,600.00	\$6,600.00	\$6,600.00	\$9,491.00
4000 Mbps CIR	\$150.00	\$10,083.00	\$8,570.00	\$7,790.00	\$7,790.00	\$7,790.00	\$11,203.00
5000 Mbps CIR	\$150.00	\$11,859.00	\$10,080.00	\$9,160.00	\$9,160.00	\$9,160.00	\$13,177.00
7500 Mbps CIR	\$150.00	\$15,577.00	\$13,240.00	\$12,030.00	\$12,030.00	\$12,030.00	\$17,308.00
9500 Mbps CIR	\$150.00	\$18,542.00	\$15,760.00	\$14,320.00	\$14,320.00	\$14,320.00	\$20,602.00
10000 Mbps CIR	\$150.00	\$19,271.00	\$16,380.00	\$14,890.00	\$14,890.00	\$14,890.00	\$21,412.00

* Nonrecurring Charges are waived for service ordered under an EPP as specified in 25.1.4 (B).

Table B in 25.1.5 (B) (2) (b) shows the CIR bandwidth supported on each Customer Port Connection.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 25-33

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.6 Rates and Charges (Cont'd)(B) PPCOS Service Arrangement (Cont'd)

MultiMedia Standard Committed Information Rate							
Rate Element#	Nonrecurring Charges*	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	\$150.00	\$1,075.00	\$470.00	\$425.00	\$425.00	\$425.00	\$1,100.00
4 Mbps CIR	\$150.00	\$1,100.00	\$520.00	\$465.00	\$465.00	\$465.00	\$1,175.00
5 Mbps CIR	\$150.00	\$1,175.00	\$610.00	\$550.00	\$550.00	\$550.00	\$1,250.00
8 Mbps CIR	\$150.00	\$1,200.00	\$700.00	\$635.00	\$635.00	\$635.00	\$1,275.00
10 Mbps CIR	\$150.00	\$1,270.00	\$940.00	\$850.00	\$850.00	\$850.00	\$1,375.00
20 Mbps CIR	\$150.00	\$1,630.00	\$1,210.00	\$1,100.00	\$1,100.00	\$1,100.00	\$1,800.00
50 Mbps CIR	\$150.00	\$1,810.00	\$1,350.00	\$1,225.00	\$1,225.00	\$1,225.00	\$2,000.00
100 Mbps CIR	\$150.00	\$2,060.00	\$1,540.00	\$1,400.00	\$1,400.00	\$1,400.00	\$2,270.00
150 Mbps CIR	\$150.00	\$2,620.00	\$1,650.00	\$1,500.00	\$1,500.00	\$1,500.00	\$2,890.00
250 Mbps CIR	\$150.00	\$2,910.00	\$2,180.00	\$1,975.00	\$1,975.00	\$1,975.00	\$3,210.00
400 Mbps CIR	\$150.00	\$3,195.00	\$2,390.00	\$2,170.00	\$2,170.00	\$2,170.00	\$3,520.00
500 Mbps CIR	\$150.00	\$3,380.00	\$2,530.00	\$2,300.00	\$2,300.00	\$2,300.00	\$3,720.00
600 Mbps CIR	\$150.00	\$3,850.00	\$2,890.00	\$2,625.00	\$2,625.00	\$2,625.00	\$4,240.00
1000 Mbps CIR	\$150.00	\$4,380.00	\$3,280.00	\$2,975.00	\$2,975.00	\$2,975.00	\$4,820.00
2000 Mbps CIR	\$150.00	\$6,659.00	\$5,660.00	\$5,140.00	\$5,140.00	\$5,140.00	\$7,399.00
2500 Mbps CIR	\$150.00	\$7,977.00	\$6,780.00	\$6,160.00	\$6,160.00	\$6,160.00	\$8,863.00
4000 Mbps CIR	\$150.00	\$9,424.00	\$8,010.00	\$7,280.00	\$7,280.00	\$7,280.00	\$10,471.00
5000 Mbps CIR	\$150.00	\$11,083.00	\$9,420.00	\$8,560.00	\$8,560.00	\$8,560.00	\$12,314.00
7500 Mbps CIR	\$150.00	\$14,553.00	\$12,370.00	\$11,240.00	\$11,240.00	\$11,240.00	\$16,170.00
9500 Mbps CIR	\$150.00	\$17,318.00	\$14,720.00	\$13,380.00	\$13,380.00	\$13,380.00	\$19,242.00
10000 Mbps CIR	\$150.00	\$18,012.00	\$15,310.00	\$13,910.00	\$13,910.00	\$13,910.00	\$20,014.00

* Nonrecurring Charges are waived for service ordered under an EPP as specified in 25.1.4(B).

Table B in 25.1.5 (B) (2) (b) shows the CIR bandwidth supported on each Customer Port Connection.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 25-34

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.6 Rates and Charges (Cont'd)(B) PPCOS Service Arrangement (Cont'd)

Critical Data Committed Information Rate							
Rate Element [#]	Nonrecurring Charges*	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	\$150.00	\$1,000.00	\$330.00	\$300.00	\$300.00	\$300.00	\$1,050.00
4 Mbps CIR	\$150.00	\$1,025.00	\$390.00	\$350.00	\$350.00	\$350.00	\$1,075.00
5 Mbps CIR	\$150.00	\$1,100.00	\$500.00	\$450.00	\$450.00	\$450.00	\$1,150.00
8 Mbps CIR	\$150.00	\$1,125.00	\$610.00	\$550.00	\$550.00	\$550.00	\$1,175.00
10 Mbps CIR	\$150.00	\$1,195.00	\$720.00	\$650.00	\$650.00	\$650.00	\$1,275.00
20 Mbps CIR	\$150.00	\$1,320.00	\$990.00	\$900.00	\$900.00	\$900.00	\$1,460.00
50 Mbps CIR	\$150.00	\$1,520.00	\$1,130.00	\$1,025.00	\$1,025.00	\$1,025.00	\$1,680.00
100 Mbps CIR	\$150.00	\$1,780.00	\$1,320.00	\$1,200.00	\$1,200.00	\$1,200.00	\$1,960.00
150 Mbps CIR	\$150.00	\$2,040.00	\$1,520.00	\$1,375.00	\$1,375.00	\$1,375.00	\$2,250.00
250 Mbps CIR	\$150.00	\$2,340.00	\$1,740.00	\$1,575.00	\$1,575.00	\$1,575.00	\$2,580.00
400 Mbps CIR	\$150.00	\$2,610.00	\$1,950.00	\$1,770.00	\$1,770.00	\$1,770.00	\$2,875.00
500 Mbps CIR	\$150.00	\$2,790.00	\$2,090.00	\$1,900.00	\$1,900.00	\$1,900.00	\$3,070.00
600 Mbps CIR	\$150.00	\$3,270.00	\$2,450.00	\$2,225.00	\$2,225.00	\$2,225.00	\$3,600.00
1000 Mbps CIR	\$150.00	\$3,800.00	\$2,840.00	\$2,575.00	\$2,575.00	\$2,575.00	\$4,180.00
2000 Mbps CIR	\$150.00	\$6,212.00	\$5,280.00	\$4,800.00	\$4,800.00	\$4,800.00	\$6,902.00
2500 Mbps CIR	\$150.00	\$7,448.00	\$6,330.00	\$5,750.00	\$5,750.00	\$5,750.00	\$8,275.00
4000 Mbps CIR	\$150.00	\$8,800.00	\$7,480.00	\$6,800.00	\$6,800.00	\$6,800.00	\$9,778.00
5000 Mbps CIR	\$150.00	\$10,353.00	\$8,800.00	\$8,000.00	\$8,000.00	\$8,000.00	\$11,504.00
7500 Mbps CIR	\$150.00	\$13,589.00	\$11,550.00	\$10,500.00	\$10,500.00	\$10,500.00	\$15,099.00
9500 Mbps CIR	\$150.00	\$16,177.00	\$13,750.00	\$12,500.00	\$12,500.00	\$12,500.00	\$17,974.00
10000 Mbps CIR	\$150.00	\$16,824.00	\$14,300.00	\$13,000.00	\$13,000.00	\$13,000.00	\$18,693.00

* Nonrecurring Charges are waived for service ordered under an EPP as specified in 25.1.4 (B).

Table B in 25.1.5 (B) (2) (b) shows the CIR bandwidth supported on each Customer Port Connection.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 25-35

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.6 Rates and Charges (Cont'd)(B) PPCOS Service Arrangement (Cont'd)

Business Data Committed Information Rate							
Rate Element#	Nonrecurring Charges*	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	\$150.00	\$925.00	\$310.00	\$290.00	\$290.00	\$290.00	\$950.00
4 Mbps CIR	\$150.00	\$950.00	\$370.00	\$340.00	\$340.00	\$340.00	\$975.00
5 Mbps CIR	\$150.00	\$1,025.00	\$465.00	\$430.00	\$430.00	\$430.00	\$1,050.00
8 Mbps CIR	\$150.00	\$1,050.00	\$570.00	\$530.00	\$530.00	\$530.00	\$1,075.00
10 Mbps CIR	\$150.00	\$1,120.00	\$670.00	\$620.00	\$620.00	\$620.00	\$1,175.00
20 Mbps CIR	\$150.00	\$1,260.00	\$925.00	\$860.00	\$860.00	\$860.00	\$1,390.00
50 Mbps CIR	\$150.00	\$1,450.00	\$1,055.00	\$980.00	\$980.00	\$980.00	\$1,600.00
100 Mbps CIR	\$150.00	\$1,700.00	\$1,230.00	\$1,140.00	\$1,140.00	\$1,140.00	\$1,870.00
150 Mbps CIR	\$150.00	\$1,940.00	\$1,410.00	\$1,310.00	\$1,310.00	\$1,310.00	\$2,140.00
250 Mbps CIR	\$150.00	\$2,230.00	\$1,615.00	\$1,500.00	\$1,500.00	\$1,500.00	\$2,460.00
400 Mbps CIR	\$150.00	\$2,490.00	\$1,815.00	\$1,685.00	\$1,685.00	\$1,685.00	\$2,735.00
500 Mbps CIR	\$150.00	\$2,660.00	\$1,945.00	\$1,810.00	\$1,810.00	\$1,810.00	\$2,920.00
600 Mbps CIR	\$150.00	\$3,110.00	\$2,280.00	\$2,120.00	\$2,120.00	\$2,120.00	\$3,420.00
1000 Mbps CIR	\$150.00	\$3,610.00	\$2,640.00	\$2,450.00	\$2,450.00	\$2,450.00	\$3,980.00
2000 Mbps CIR	\$150.00	\$5,910.00	\$4,920.00	\$4,560.00	\$4,560.00	\$4,560.00	\$6,560.00
2500 Mbps CIR	\$150.00	\$7,080.00	\$5,900.00	\$5,470.00	\$5,470.00	\$5,470.00	\$7,870.00
4000 Mbps CIR	\$150.00	\$8,360.00	\$6,970.00	\$6,460.00	\$6,460.00	\$6,460.00	\$9,290.00
5000 Mbps CIR	\$150.00	\$9,840.00	\$8,200.00	\$7,600.00	\$7,600.00	\$7,600.00	\$10,930.00
7500 Mbps CIR	\$150.00	\$12,910.00	\$10,765.00	\$9,980.00	\$9,980.00	\$9,980.00	\$14,350.00
9500 Mbps CIR	\$150.00	\$15,370.00	\$12,815.00	\$11,880.00	\$11,880.00	\$11,880.00	\$17,080.00
10000 Mbps CIR	\$150.00	\$15,990.00	\$13,325.00	\$12,350.00	\$12,350.00	\$12,350.00	\$17,760.00

* Nonrecurring Charges are waived for service ordered under an EPP as specified in 25.1.4 (B).

Table B in 25.1.5 (B) (2) (b) shows the CIR bandwidth supported on each Customer Port Connection.

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 25-36

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.6 Rates and Charges (Cont'd)

(C) Optional Features

Optional Features								
Rate Element		Nonrecurring Charges*	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
Regenerator (per port)								
100 Mbps		\$250.00	\$3,250.00	\$1,630.00	\$1,090.00	\$820.00	\$650.00	\$3,400.00
1 Gbps		\$250.00	\$3,250.00	\$1,630.00	\$1,090.00	\$820.00	\$650.00	\$3,400.00
10 Gbps		\$1,500.00	\$6,000.00	\$4,800.00	\$4,400.00	\$4,200.00	\$3,900.00	\$7,200.00
Alternate Serving Switch								
0 - 10 miles		\$1,200.00	\$970.00	\$485.00	\$325.00	\$245.00	\$195.00	\$1,165.00
11 - 25 miles		\$1,200.00	\$1,940.00	\$970.00	\$650.00	\$490.00	\$390.00	\$2,330.00
26 - 35 miles		\$1,200.00	\$6,500.00	\$3,300.00	\$2,200.00	\$1,700.00	\$1,300.00	\$8,120.00
36 - 50 miles		\$1,200.00	\$7,200.00	\$4,300.00	\$3,000.00	\$2,500.00	\$2,200.00	\$8,700.00
Diverse Access								
		\$600.00	\$750.00	\$450.00	\$250.00	\$250.00	\$250.00	\$1,000.00
Advanced Access Failover (Per Port)								
1 Gbps		\$1,200.00	\$4,000.00	\$2,500.00	\$2,120.00	\$2,120.00	\$2,120.00	\$4,200.00
10 Gbps		\$1,200.00	\$22,000.00	\$15,000.00	\$9,000.00	\$9,000.00	\$9,000.00	\$23,000.00

* Nonrecurring Charges are waived for service ordered under an EPP as specified in 25.1.4(B) .

Section 25 - Ethernet Services

25.1 Ultimate Switched Ethernet Service (Cont'd)25.1.6 Rates and Charges (Cont'd))(C) Optional Features (Cont'd)

Additional Charges		
Rate Element	Nonrecurring Charges*	Monthly Recurring Charge
Additional MAC Addresses (per port)	\$70.00	\$5.00
Enhanced Multicast (per port)	\$0.00	\$140.00
Administrative Charge (per order)	\$51.00	NA

* Nonrecurring Charges are waived for service ordered under an EPP as specified in 25.1.4(B).

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 26-1

Section 26 - Metropolitan Statistical Area Access Service

26.1 Concurrence

This section concurs in Frontier Telephone Companies Tariff FCC No. 11, Section 24 Metropolitan Statistical Area Access Service, which can be accessed via the following hypertext link.

<http://tariffs.citizenscommunications.com/crtf/tariffs/>

Exceptions to this concurrence of The Frontier Telephone Companies Tariff FCC No. 11, Section 24, are as listed below. The following cited exceptions relate to that specific section in the interstate Tariff FCC No. 11.

26.2 Metropolitan Statistical Area Access Services

26.2.1 General Description

Special Access is not available in the intrastate jurisdiction

26.2.2 Services Available in an MSA

Special Access is not available in the intrastate jurisdiction

26.2.3 Rates and Charges

(A) Switched Access/Dedicated Transport Services

(B)	Direct-Trunked Transport		<u>Fixed</u>	<u>Per Mile</u>
	DS1 (per DS1) Over 0			
		Zone 3 Monthly	\$91.83	\$19.97

(C) Dedicated Signaling Transport/Signaling Link

1) STP Access Connection does not apply to the intrastate jurisdiction.

2) STP Access Mileage does not apply to the intrastate jurisdiction.

(D) Vintage Rate

1) Vintage Rates by effective date

The following rates apply for intrastate Switched Access/Dedicated Transport Services installed July 2, 2013.

Entrance Facility		1 Yr-OPP Rate	3 Yr-OPP Rate	5 Yr-OPP Rate
DS1 (per DS1)	Zone 1			
	Zone 2	\$ 134.00		
	Zone 3	\$ 140.00		
		\$ 150.00		
DS3 (per DS3)	Zone 1		\$1,125.00	\$1,000.00
	Zone 2		\$1,150.00	\$1,050.00
	Zone 3			\$1,050.00

CONNECTICUT ACCESS SERVICE TARIFF

The Southern New England
Telephone Company
d/b/a Frontier Communications of Connecticut

Original Page 26-2

Section 26 - Metropolitan Statistical Area Access Service

26.1 Concurrence (Cont'd)26.2 Metropolitan Statistical Area Access Services (Cont'd)26.2.3 Rates and Charges (Cont'd)

(D) Vintage Rate (Cont'd)

1) Vintage Rates by effective date (Cont'd)

Direct-Trunked Transport

		1 Yr-OPP		
DS1 (per DS1)	Mileage Bands	Fixed	Per Mile	
Zone 1	Over 0 Miles	\$ 70.00	\$ 16.75	
Zone 2	Over 0 Miles	\$ 76.90	\$ 16.50	
Zone 3	Over 0 Miles	\$ 80.00	\$ 20.80	

3 Yr-OPP

DS1 (per DS1)	Mileage Bands	Fixed	Per Mile	
Zone 1	Over 0 Miles	\$ 70.00		
Zone 2	Over 0 Miles	\$ 76.90	\$ 16.50	
Zone 3	Over 0 Miles	\$ 80.00	\$ 20.80	

3 Yr-OPP

DS3 (per DS3)	Mileage Bands	Fixed	Per Mile	
Zone 1	Over 0 Miles	\$ 550.00	\$ 70.00	
Zone 2	Over 0 Miles	\$ 600.00	\$ 75.00	
Zone 3	Over 0 Miles	\$ 650.00	\$ 78.00	

5 Yr-OPP

DS3 (per DS3)	Mileage Bands	Fixed	Per Mile	
Zone 1	Over 0 Miles	\$ 500.00	\$ 40.00	
Zone 2	Over 0 Miles	\$ 550.00	\$ 45.00	
Zone 3	Over 0 Miles	\$ 600.00	\$ 50.00	

Switched Transport
Features

	1 Yr-OPP	3 Yr-OPP	5 Yr-OPP
<u>Multiplexing</u>	Rate	Rate	Rate

DS1 to Voice Grade

Zone 1	\$ 205.00	
Zone 2	\$ 205.00	\$ 205.00
Zone 3	\$ 205.00	\$ 205.00

DS3 to DS1

Zone 1	\$ 500.00	\$ 475.00
Zone 2	\$ 525.00	\$ 515.00
Zone 3	\$ 550.00	\$ 525.00

26.2.4 Special Access is not available in the intrastate jurisdiction.