FACILITIES FOR INTRASTATE ACCESS

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.3 End Office Services (Cont'd)

(J) Remote Call Forwarding - BSE

Premium Monthly Rate Per Line	$16.28

(K) Direct Inward Dialing (DID) - BSE

	Monthly Rate
Per DID Term	$35.64
Per Block of 20 Numbers	18.33

(L) Billed Number Screening (BNS) - BSE

Per Lines Screened	$4.16

	Rate Per Access Minute		
	Originating Toll-Free	Originating Non-Toll Free	Terminating
(M) Shared Trunk Port Per Access Minute	**$0.000859(R)**	$0.001718	$0.000000

(N) Dedicated Trunk Port (Note 1)

	Monthly Rate Per Channel
Voice Grade	$ 5.12
DS1	$ 0.89

Note 1: The End Office Dedicated Trunk Port rate was calculated based upon a 50/50 split between originating and terminating traffic using this flat-rated port. The FCC in their FCC 11-161 ICC Transformation order in section 51.907(d)(1) allowed Price Cap Carriers to use an equal split to divide the charge between originating and terminating elements. When the terminating portion of the rate is reduced and then combined with the originating portion of the rate, a single flat rate is generated for billing purposes. The Originating portion of the Voce Grade charge is $5.12 and the Originating portion of the DS1 charge is $0.89.

FACILITIES FOR INTRASTATE ACCESS

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.3 End Office Services (Cont'd)

(J) Remote Call Forwarding - BSE

Premium Monthly Rate Per Line	$16.28

(K) Direct Inward Dialing (DID) - BSE

	Monthly Rate
Per DID Term	$35.64
Per Block of 20 Numbers	18.33

(L) Billed Number Screening (BNS) - BSE

Per Lines Screened	$4.16

	Rate Per Access Minute			
	Originating **Toll-Free**	Originating **Non-Toll Free**	Terminating	
(M) Shared Trunk Port Per Access Minute	$0.001718	$0.001718	$0.000000	(C)

(N) Dedicated Trunk Port (Note 1)

	Monthly Rate Per Channel
Voice Grade	$ 5.12
DS1	$ 0.89

Note 1: The End Office Dedicated Trunk Port rate was calculated based upon a 50/50 split between originating and terminating traffic using this flat-rated port. The FCC in their FCC 11-161 ICC Transformation order in section 51.907(d)(1) allowed Price Cap Carriers to use an equal split to divide the charge between originating and terminating elements. When the terminating portion of the rate is reduced and then combined with the originating portion of the rate, a single flat rate is generated for billing purposes. The Originating portion of the Voce Grade charge is $5.12 and the Originating portion of the DS1 charge is $0.89.

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.3 End Office Services (Cont'd)

(J) Remote Call Forwarding - BSE

Premium Monthly Rate Per Line	$16.28	(T)

(K) Direct Inward Dialing (DID) - BSE

	Monthly Rate	
Per DID Term	$35.64	(T)
Per Block of 20 Numbers	18.33	(T)

(L) Billed Number Screening (BNS) - BSE

Per Lines Screened	$4.16	(T)

	Rate Per Access Minute		
	Originating	Terminating	
(M) Shared Trunk Port Per Access Minute	$0.001718	$0.0007368 (R)	(C)

(N) Dedicated Trunk Port Note 1

	Monthly Rate Per Channel
Voice Grade	$10.23
DS1	$ 1.78

Note 1: The End Office Dedicated Trunk Port rate was calculated assuming a 50/50 split of the originating and terminating traffic using this flat-rated port. The FCC in their FCC 11-161 ICC Transformation order in section 51.907(d)(1) allowed Price Cap Carriers to use an equal split to divide the charge between originating and terminating elements. When the terminating portion of the rate is reduced and then combined with the originating portion of the rate a single flat rate is generated for billing purposes. The Originating portion of the Voce Grade charge is $5.12 and the Originating portion of the DS1 charge is $0.89.

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.3 End Office Services (Cont'd)

(J) Remote Call Forwarding - BSE

Premium Monthly Rate Per Line	(FOMPX)	$16.28

(K) Direct Inward Dialing (DID) - BSE

		Monthly Rate
Per DID Term	(NDT)	$35.64
Per Block of 20 Numbers	(ND4)	18.33

(L) Billed Number Screening (BNS) - BSE

Per Lines Screened	(RTVXQ)	$4.16

	Rate Per Access Minute	
	Originating	Terminating
(M) Shared Trunk Port Per Access Minute	$0.001718	$0.001718

		Monthly Rate Per Channel	
(N)	Dedicated Trunk Port (Note 1)		(T)
	Voice Grade	$10.23	
	DS1	$1.78	

Note 1: The End Office Dedicated Trunk Port rate was calculated assuming a 50/50 split of the originating and terminating traffic using this flat-rated port. The FCC in their FCC 11-161 ICC Transformation order in section 51.907(d)(1) allowed Price Cap Carriers to use an equal split to divide the charge between originating and terminating elements. When the terminating portion of the rate is reduced and then combined with the originating portion of the rate a single flat rate is generated for billing purposes. The Originating portion of the Voce Grade charge is $5.12 and the Originating portion of the DS1 charge is $0.89. (N) (N)

Issued: May 1, 2014

Effective: July 1, 2014

Gary Kepley
Director - Regulatory Operations
Overland Park, Kansas

CANCELED
July 1, 2015
Missouri Public
Service Commission
JI-2015-0314

FILED
Missouri Public
Service Commission
JI-2014-0439

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.3 End Office Services (Cont'd)

(J)	Remote Call Forwarding - BSE			(T)
	Premium Monthly Rate Per Line	(FOMPX)	$16.28	(T)
(K)	Direct Inward Dialing (DID) - BSE			(T)
			Monthly Rate	
	Per DID Term	(NDT)	$35.64	
	Per Block of 20 Numbers	(ND4)	18.33	(T)
(L)	Billed Number Screening (BNS) - BSE			(T)
	Per Lines Screened	(RTVXQ)	$4.16	(T)

		Rate		
		Originating	Terminating	
(M)	Shared Trunk Port Per Access Minute	$0.001718	$0.001718	(T)

(N)	Dedicated Trunk Port		Monthly Rate	(M)
	Per Channel			
	Voice Grade		$10.23	
	DS1		$1.78	(M)

(M) This material previously appeared on sheet 151.1.

FACILITIES FOR INTRASTATE ACCESS

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.3 End Office Services (Cont'd)

(L) Remote Call Forwarding - BSE

Premium Monthly Rate Per Line (FOMPX)
$16.28

(M) Direct Inward Dialing (DID) - BSE

Monthly Rate Per DID Term (NDT)	Monthly Rate Per Block of 20 Numbers (ND4)
$35.64	$18.33

(N) Billed Number Screening (BNS) - BSE

Monthly Rate Per Lines Screened (RTVXQ)
$4.16

	Rate		
	Originating	Terminating	(N)
(O) Shared Trunk Port Per Access Minute	$0.001718	$0.001718	(N)

ISSUED: May 1, 2012

EFFECTIVE: July 3, 2012

Gary Kepley
Director - Regulatory Operations
Overland Park, Kansas

FILED
Missouri Public
Service Commission
TT-2012-0317; YI-2012-0634

CANCELLED
July 2, 2013
Missouri Public
Service Commission
JI-2013-0494

FACILITIES FOR INTRASTATE ACCESS

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.3 End Office Services (Cont'd)

(L) Remote Call Forwarding – BSE

Premium Monthly Rate Per Line (FOMPX)
$ 16.28 (I)

(M) Direct Inward Dialing (DID) – BSE

Monthly Rate Per DID Term (NDT)	Monthly Rate Per Block of 20 Numbers (ND4)
$ 35.64 (I)	$ 18.33 (I)

(N) Billed Number Screening (BNS) – BSE

Monthly Rate Per Lines Screened (RTVXQ)
$ 4.16 (I)

CANCELLED
April 11, 2011
Missouri Public
Service Commission
TT-2012-0317
YI-2012-0634

FILED
Missouri Public
Service Commission

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.3 End Office Services (Cont'd)

(L) Remote Call Forwarding – BSE

Premium Monthly Rate Per Line (FOMPX)
$ 15.92 (I)

(M) Direct Inward Dialing (DID) – BSE

Monthly Rate Per DID Term (NDT)	Monthly Rate Per Block of 20 Numbers (ND4)
$ 34.84 (I)	$ 17.92 (I)

(N) Billed Number Screening (BNS) – BSE

Monthly Rate Per Lines Screened (RTVXQ)
$ 4.07 (I)

FACILITIES FOR INTRASTATE ACCESS

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.3 End Office Services (Cont'd)

(L) Remote Call Forwarding – BSE
Premium Monthly Rate
Per Line
(FOMPX)

$ 15.63 (R)

(M) Direct Inward Dialing (DID) – BSE

Monthly Rate Per DID Term (NDT)	Monthly Rate Per Block of 20 Numbers (ND4)
$ 34.20 (R)	$ 17.59 (R)

(N) Billed Number Screening (BNS) – BSE

Monthly Rate
Per Lines Screened
(RTVXQ)

$ 4.00 (R)

Issued: July 14, 2006

Effective: September 1, 2006

Chantel Mosby
Manager, Tariffs and Compliance
Monroe, Louisiana

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.3 End Office Services (Cont'd)

(L) Remote Call Forwarding – BSE

Premium Monthly Rate Per Line (FOMPX)	
$ 15.66	(R)

(M) Direct Inward Dialing (DID) – BSE

Monthly Rate Per DID Term (NDT)	Monthly Rate Per Block of 20 Numbers (ND4)	
$ 34.26	$ 17.62	(R)

(N) Billed Number Screening (BNS) – BSE

Monthly Rate Per Lines Screened (RTVXQ)	
$ 4.01	(R)

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.3 End Office Services (Cont'd)

(L) Remote Call Forwarding - BSE

Premium Monthly Rate Per Line (FOMPX)
$ 16.00

(M) Direct Inward Dialing (DID) - BSE

Monthly Rate Per DID Term (NDT)	Monthly Rate Per Block of 20 Numbers (ND4)
$ 35.00	$ 18.00

(N) Billed Number Screening (BNS) - BSE

Monthly Rate Per Lines Screened (RTVXQ)
$ 4.10

Kenneth Hatzdorff
Chief Operating Officer
Kansas City, Missouri

FACILITIES FOR INTRASTATE ACCESS

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.4 Information Surcharge

The rates for Information Surcharge are based on originating and terminating Access Minutes.

	Originating	Terminating		
Per Access Minute	$ .00008429	$.0000000	(R)	(C)

4.6.5 FGA or BSA-A Usage Sensitive Credit Allowance (T)

Credit Per Originating FGA or BSA-A Access Minute #	$ .00049351	(T)

4.6.6 (Reserved For Future Use)

4.6.7 Assumed Minutes of Use Monthly Surrogate

Per Two Way Line/Trunk Originating Only		Per One Way Line/Trunk Terminating Only				
FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B	(Z)
2,451	(1)	(1)	(1)	(1)	(1)	(T)

4.6.8 Carrier Identification Parameter (CIP)

Non-Recurring Charge-Per CIC.			
Per End Office Direct Trunk Group	Per Access Tandem Direct Trunk Group	Monthly Recurring Charges Per Trunk	(T)
$80.00	$1,120.00	$0.45657581	

\# The credit is applied to the End Office Switching rate element.

(1) These jurisdictions either have all existing services measured or have no customers at this time. In the event an ASR is received for a new customer and there is no measurement capability for the office requested, a traffic study will be made to establish a surrogate and such surrogate will be tariffed.

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.4 Information Surcharge

The rates for Information Surcharge are based on originating and terminating Access Minutes.

Premium Rates Information Surcharge Per Access Minute
$ .00008429 (I)

4.6.5 FGA or BSA-A Usage Sensitive Credit Allowance

Usage Sensitive Service Credit Allowance Credit Per Originating FGA or BSA-A Access Minute #
$ .00049351 (I)

4.6.6 (Reserved For Future Use)*

4.6.7 Assumed Minutes of Use Monthly Surrogate

Per Two Way Line/Trunk Originating Only		Per One Way Line/Trunk Terminating Only			
FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B
2451	(1)	(1)	(1)	(1)	(1)

4.6.8 Carrier Identification Parameter (CIP)

Non-Recurring Charge-Per CIC. Per End Office Direct Trunk Group	Non-Recurring Charge Per CIC. Per Access Tandem Direct Trunk Group	Monthly Recurring Charges Per Trunk
$80.00	$1,120.00	$0.45657581 (I)

* The Equal Access Cost Recovery Charge has been eliminated.
\# The credit is applied to the End Office Switching rate element.
(1) These jurisdictions either have all existing services measured or have no customers at this time. In the event an ASR is received for a new customer and there is no measurement capability for the office requested, a traffic study will be made to establish a surrogate and such surrogate will be tariffed.

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.4 Information Surcharge

The rates for Information Surcharge are based on originating and terminating Access Minutes.

Premium Rates Information Surcharge Per Access Minute
$ .00008239 (I)

4.6.5 FGA or BSA-A Usage Sensitive Credit Allowance

Usage Sensitive Service Credit Allowance Credit Per Originating FGA or BSA-A Access Minute #
$ .0004824 (I)

4.6.6 (Reserved For Future Use)*

4.6.7 Assumed Minutes of Use Monthly Surrogate

Per Two Way Line/Trunk Originating Only		Per One Way Line/Trunk Terminating Only			
FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B
2451	(1)	(1)	(1)	(1)	(1)

4.6.8 Carrier Identification Parameter (CIP)

Non-Recurring Charge-Per CIC. Per End Office Direct Trunk Group	Non-Recurring Charge Per CIC. Per Access TandemDirect Trunk Group	Monthly Recurring Charges Per Trunk
$80.00	$1,120.00	$0.4462797 (I)

* The Equal Access Cost Recovery Charge has been eliminated.
\# The credit is applied to the End Office Switching rate element.
(1) These jurisdictions either have all existing services measured or have no customers at this time. In the event an ASR is received for a new customer and there is no measurement capability for the office requested, a traffic study will be made to establish a surrogate and such surrogate will be tariffed.

FACILITIES FOR INTRASTATE ACCESS

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.4 Information Surcharge

The rates for Information Surcharge are based on originating and terminating Access Minutes.

Premium Rates Information Surcharge
Per Access Minute
$ .0000809 (R)

4.6.5 FGA or BSA-A Usage Sensitive Credit Allowance

Usage Sensitive Service Credit Allowance Credit Per Originating FGA or BSA-A Access Minute #
$ .0004735 (R)

4.6.6 (Reserved For Future Use)*

4.6.7 Assumed Minutes of Use Monthly Surrogate

Per Two Way Line/Trunk Originating Only		Per One Way Line/Trunk Terminating Only			
FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B
2451	(1)	(1)	(1)	(1)	(1)

4.6.8 Carrier Identification Parameter (CIP)

Non-Recurring Charge-Per CIC. Per End Office Direct Trunk Group	Non-Recurring Charge Per CIC. Per Access Tandem Direct Trunk Group	Monthly Recurring Charges Per Trunk
$80.00	$1,120.00	$0.4380071 (R)

* The Equal Access Cost Recovery Charge has been eliminated.
\# The credit is applied to the End Office Switching rate element.
(1) These jurisdictions either have all existing services measured or have no customers at this time. In the event an ASR is received for a new customer and there is no measurement capability for the office requested, a traffic study will be made to establish a surrogate and such surrogate will be tariffed.

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.4 Information Surcharge

The rates for Information Surcharge are based on originating and terminating Access Minutes.

Premium Rates Information Surcharge Per Access Minute	
$ .0000810	(R)

4.6.5 FGA or BSA-A Usage Sensitive Credit Allowance

Usage Sensitive Service Credit Allowance Credit Per Originating FGA or BSA-A Access Minute #	
$ .0004742	(R)

4.6.6 (Reserved For Future Use)*

4.6.7 Assumed Minutes of Use Monthly Surrogate

Per Two Way Line/Trunk Originating Only		Per One Way Line/Trunk Terminating Only			
FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B
2451	(1)	(1)	(1)	(1)	(1)

4.6.8 Carrier Identification Parameter (CIP)

Non-Recurring Charge-Per CIC. Per End Office Direct Trunk Group	Non-Recurring Charge Per CIC. Per Access Tandem Direct Trunk Group	Monthly Recurring Charges Per Trunk
$80.00	$1,120.00	$0.4386994 (R)

* The Equal Access Cost Recovery Charge has been eliminated.
\# The credit is applied to the End Office Switching rate element.
(1) These jurisdictions either have all existing services measured or have no customers at this time. In the event an ASR is received for a new customer and there is no measurement capability for the office requested, a traffic study will be made to establish a surrogate and such surrogate will be tariffed.

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.4 Information Surcharge

The rates for Information Surcharge are based on originating and terminating Access Minutes.

Premium Rates Information Surcharge Per Access Minute
$ .000083

(R)

4.6.5 FGA or BSA-A Usage Sensitive Credit Allowance

Usage Sensitive Service Credit Allowance Credit Per Originating FGA or BSA-A Access Minute #
$ .00048440

4.6.6 (Reserved For Future Use)*

4.6.7 Assumed Minutes of Use Monthly Surrogate

Per Two Way Line/Trunk Originating Only		Per One Way Terminating Only		Line/Trunk	
FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B
2451	(1)	(1)	(1)	(1)	(1)

4.6.8 Carrier Identification Parameter (CIP)

Non-Recurring Charge-Per CIC. Per End Office Direct Trunk Group	Non-Recurring Charge Per CIC. Per Access Tandem Direct Trunk Group	Monthly Recurring Charges Per Trunk
$80.00	$1,120.00	$0.4481194 (R)

* The Equal Access Cost Recovery Charge has been eliminated.
\# The credit is applied to the End Office Switching rate element.
(1)These jurisdictions either have all existing services measured or have no customers at this time. In the event an ASR is received for a new customer and there is no measurement capability for the office requested, a traffic study will be made to establish a surrogate and such surrogate will be tariffed.

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.4 Information Surcharge

The rates for Information Surcharge are based on originating and terminating Access Minutes.

Premium Rates Information Surcharge Per Access Minute	
$ .00008585	(I)

4.6.5 FGA or BSA-A Usage Sensitive Credit Allowance

Usage Sensitive Service Credit Allowance Credit Per Originating FGA or BSA-A Access Minute #	
$ .00048440	

4.6.6 (Reserved For Future Use)*

4.6.7 Assumed Minutes of Use Monthly Surrogate

Per Two Way Line/Trunk Originating Only		Per One Way Terminating Only		Line/Trunk	
FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B
2451	(1)	(1)	(1)	(1)	(1)

4.6.8 Carrier Identification Parameter (CIP)

Non-Recurring Charge-Per CIC. Per End Office Direct Trunk Group	Non-Recurring Charge Per CIC. Per Access Tandem Direct Trunk Group	Monthly Recurring Charges Per Trunk
$80.00	$1,120.00	$0.46

* The Equal Access Cost Recovery Charge has been eliminated.
\# The credit is applied to the End Office Switching rate element.
(1) These jurisdictions either have all existing services measured or have no customers at this time. In the event an ASR is received for a new customer and there is no measurement capability for the office requested, a traffic study will be made to establish a surrogate and such surrogate will be tariffed.

Kenneth Matzdorff
Chief Operating Officer
Wentzville, MO 63385

4. SWITCHED ACCESS (Cont'd)

4.6 Rates and Charges (Cont'd)

4.6.4 Information Surcharge

The rates for Information Surcharge are based on originating and terminating Access Minutes.

Premium Rates Information Surcharge Per Access Minute
$ .00008547

4.6.5 FGA or BSA-A Usage Sensitive Credit Allowance

Usage Sensitive Service Credit Allowance Credit Per Originating FGA or BSA-A Access Minute #
$ .00048440

4.6.6 (Reserved For Future Use)*

4.6.7 Assumed Minutes of Use Monthly Surrogate

Per Two Way Line/Trunk Originating Only		Per One Way Line/Trunk Terminating Only			
FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B	FGA or BSA-A	FGB or BSA-B
2451	(1)	(1)	(1)	(1)	(1)

4.6.8 Carrier Identification Parameter (CIP)

Non-Recurring Charge-Per CIC. Per End Office Direct Trunk Group	Non-Recurring Charge Per CIC. Per Access Tandem Direct Trunk Group	Monthly Recurring Charges Per Trunk
$80.00	$1,120.00	$0.46

* The Equal Access Cost Recovery Charge has been eliminated.

\# The credit is applied to the End Office Switching rate element.

(1) These jurisdictions either have all existing services measured or have no customers at this time. In the event an ASR is received for a new customer and there is no measurement capability for the office requested, a traffic study will be made to establish a surrogate and such surrogate will be tariffed.

Kenneth Hatzdorff
Chief Operating Officer
Kansas City, Missouri

SECTION 5 TABLE OF CONTENTS

Kenneth Hatzdorff
Chief Operating Officer
Kansas City, Missouri

SECTION 5 TABLE OF CONTENTS (Cont'd)

Kenneth Hatzdorff
Chief Operating Officer
Kansas City, Missouri

SECTION 5 TABLE OF CONTENTS (Cont'd)

Kenneth Matzdorff
Chief Operating Officer
Kansas City, Missouri

5. SPECIAL ACCESS (Cont'd)

5.1 General (Cont'd)

5.1.1 Rate Elements (Cont'd)

(F) Multiplexing Arrangements

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

(G) Special Transport Termination

(1) DS1 Service

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

(2) Fractional T1 Service (FT1)

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

Kenneth Matzdorff
Chief Operating Officer
Kansas City, Missouri

5. SPECIAL ACCESS (Cont'd)

5.2 Description of Special Access

There are seven generic types of Special Access offerings.

-Voiceband
-Program Audio
-Videoband
-Wideband Analog
-Wideband Data *
-High Capacity Digital
-Digital Data Service

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

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

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

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

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

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

* Limited to those offerings for existing circuits at existing locations.

5. SPECIAL ACCESS (Cont'd)

5.2 Description of Special Access (Cont'd)

5.2.1 Voiceband

(A) Two-Wire Voiceband Facility (T)

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

(B) Four-Wire Voiceband Facility (T)

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

5. SPECIAL ACCESS (Cont'd)

5.2 Description of Special Access (Cont'd)

5.2.1 Voiceband

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

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

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

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

5. SPECIAL ACCESS (Cont'd)

5.2 Description of Special Access (Cont'd)

5.2.2 (Reserved for Future Use)

5.2.3 Program Audio

These facilities are arranged and provided for the transmission of non-broadcast audio to be broadcast or which is to be used in connection with loudspeakers, wired music, closed circuit or recordings. Facilities to be used in conjunction with broadcast audio must be ordered from the appropriate interstate tariff. Audio facilities are furnished for transmission in one direction. Audio facilities may be provided on a two-point or multipoint basis.

Program audio facilities are provided on either a full-time or part-time basis. The minimum periods for full-time and part-time service are set forth in Section 3.2.4. When a part-time program audio service is provided for ten or more consecutive days, it will be treated as a full-time service and rated accordingly. In no event will the charge for continuous part-time program audio exceed the amount that would have been charged in the same time period for full-time program audio facilities.

Listed below are the types of Program Audio facilities that are offered under this tariff.

(A) 200 to 3500 Hz (T)

Facilities are generally acceptable for speech quality programming and are subject to use over limited distance due to transmission factors.

(B) 100 to 5000 Hz (T)

Facilities are generally acceptable for music and provide good quality speech programming.

(C) 50 to 8000 Hz (T)

Facilities for the provision of high fidelity music transmission.

(D) 50 to 15000 Hz (T)

Facilities for the provision of high fidelity music transmission. Two such facilities may be conditioned, at applicable charges, for stereo operation.

5.2.4 Videoband (T)

These facilities are arranged and provided for the transmission of television which is to be used other than for broadcast purposes in connection with viewing or recording. Facilities to be used in connection with broadcast video services must be ordered from the appropriate interstate tariff.

5. SPECIAL ACCESS (Cont'd)

5.2 Description of Special Access (Cont'd)

5.2.2 (Reserved for Future Use)

5.2.3 Program Audio

These facilities are arranged and provided for the transmission of non-broadcast audio to be broadcast or which is to be used in connection with loudspeakers, wired music, closed circuit or recordings. Facilities to be used in conjunction with broadcast audio must be ordered from the appropriate interstate tariff. Audio facilities are furnished for transmission in one direction. Audio facilities may be provided on a two-point or multipoint basis.

Program audio facilities are provided on either a full-time or part-time basis. The minimum periods for full-time and part-time service are set forth in Section 3.2.4. When a part-time program audio service is provided for ten or more consecutive days, it will be treated as a full-time service and rated accordingly. In no event will the charge for continuous part-time program audio exceed the amount that would have been charged in the same time period for full-time program audio facilities.

Listed below are the types of Program Audio facilities that are offered under this tariff.

(A) 200 to 3500 Hz (USOC - XDP1D; XDP1M)

Facilities are generally acceptable for speech quality programming and are subject to use over limited distance due to transmission factors.

(B) 100 to 5000 Hz (USOC - XDP2D; XDP2M)

Facilities are generally acceptable for music and provide good quality speech programming.

(C) 50 to 8000 Hz (USOC - XDP3D; XDP3M)

Facilities for the provision of high fidelity music transmission.

(D) 50 to 15000 Hz (USOC - XDP4D; XDP4M)

Facilities for the provision of high fidelity music transmission. Two such facilities may be conditioned, at applicable charges, for stereo operation.

5.2.4 Videoband (USOC - XDT1D; XDT1M)

These facilities are arranged and provided for the transmission of television which is to be used other than for broadcast purposes in connection with viewing or recording. Facilities to be used in connection with broadcast video services must be ordered from the appropriate interstate tariff.

5. SPECIAL ACCESS (Cont'd)

5.2 Description of Special Access (Cont'd)

5.2.5 Wideband Analog (T)

These facilities are two-point and are furnished between CDLs or between a CDL and a Telephone Company designated Hub Wire Center where multiplexing is offered. The three types of Wideband Analog facilities are:

(A) Group band facilities with a bandwidth from 60 kHz to 108 kHz for the transmission of a 12 circuit frequency division multiplexer (FDM) group.

(B) Supergroup band facilities with a bandwidth from 312 kHz to 552 kHz for the transmission of a 60 circuit FDM supergroup.

(C) Mastergroup band facilities with a bandwidth from 564 kHz to 3084 kHz for the transmission of a 600 circuit FDM mastergroup.

5.2.6 Wideband Data Service * (T)

These analog facilities are arranged and furnished for two-point simultaneous two-way transmission of high speed data between two CDLs. These facilities are normally utilized for the following data speeds: 19.2 Kbps, 50 Kbps, 56 Kbps and 230.4 Kbps.

5.2.7 High Capacity Digital (T)

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

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

(B) DS1C facilities provide for the transmission of isochronous bipolar serial data at a rate of 3.152 Mbps.

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

* Limited to existing customers at existing locations.

5. SPECIAL ACCESS (Cont'd)

5.2 Description of Special Access (Cont'd)

5.2.5 Wideband Analog (USOC - XDN++)

These facilities are two-point and are furnished between CDLs or between a CDL and a Telephone Company designated Hub Wire Center where multiplexing is offered. The three types of Wideband Analog facilities are:

(A) Group band facilities with a bandwidth from 60 kHz to 108 kHz for the transmission of a 12 circuit frequency division multiplexer (FDM) group.

(B) Supergroup band facilities with a bandwidth from 312 kHz to 552 kHz for the transmission of a 60 circuit FDM supergroup.

(C) Mastergroup band facilities with a bandwidth from 564 kHz to 3084 kHz for the transmission of a 600 circuit FDM mastergroup.

5.2.6 Wideband Data Service (USOC - XDL++) *

These analog facilities are arranged and furnished for two-point simultaneous two-way transmission of high speed data between two CDLs. These facilities are normally utilized for the following data speeds: 19.2 Kbps, 50 Kbps, 56 Kbps and 230.4 Kbps.

5.2.7 High Capacity Digital (USOC - XDH++)

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

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

(B) DS1C facilities provide for the transmission of isochronous bipolar serial data at a rate of 3.152 Mbps.

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

* Limited to existing customers at existing locations.

FACILITIES FOR INTRASTATE ACCESS

5. SPECIAL ACCESS (Cont'd)

5.2 Description of Special Access (Cont'd)

5.2.7 High Capacity Digital (Cont'd) (T)

(D) (Reserved for Future Use)

(E) DS3 facilities provide for the transmission of isochronous bipolar serial data at a rate of 44.736 Mbps. The Telephone Company will provide an electrical interface with the service unless otherwise specified by the customer.

(F) DS3C facilities provide for the transmission of isochronous bipolar serial data at a rate of 89.472 Mbps. The Telephone Company will provide an optical interface with this service unless the service is provided via microwave, in which case an electro-magnetic interface is provided, or unless the customer requests an electrical interface.

5.2.8 Digital Data Service (T)

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

5.2.9 (Reserved for Future Use)

5.2.10 (Reserved for Future Use)

FACILITIES FOR INTRASTATE ACCESS

5. SPECIAL ACCESS (Cont'd)

5.2 Description of Special Access (Cont'd)

5.2.7 High Capacity Digital (USOC - XDH++) (Cont'd)

(D) (Reserved for Future Use)

(E) DS3 facilities provide for the transmission of bipolar serial data at a rate of 44.736 Mbps. The Telephone Company will provide an electrical interface with the service unless otherwise specified by the customer.

(F) DS3C facilities provide for the transmission of isochronous bipolar serial data at a rate of 89.472 Mbps. The Telephone Company will provide an optical interface with this service unless the service is provided via microwave, in which case an electro-magnetic interface is provided, or unless the customer requests an electrical interface.

5.2.8 Digital Data Service (USOC - XDD++)

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

5.2.9 (Reserved for Future Use)

5.2.10 (Reserved for Future Use)

5. SPECIAL ACCESS (Cont'd)

5.3 Description of Terminating Options

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

5.3.1 Narrowband

(A) 0 to 75 Baud Type 1

Provides standard open/closed 20 or 62 Ma energized interface to customer terminal equipment and converts customer terminal equipment signals to voice frequency signaling for transmission over two-wire or four-wire voiceband network facilities suitable for voice grade to narrowband multiplexing. This terminating option is obsolete and is limited to those circuits so equipped and in service for existing customers at existing locations.

(B) 0 to 75 Baud Type 2

Provides two-wire or four-wire metallic interface for customer or Telephone Company energized circuits. Telephone Company energized circuits are only available in conjunction with voice grade to narrowband multiplexing. This option does not guarantee dc current operation over special transport facilities. This terminating option is obsolete and is limited to those circuits so equipped and in service for existing customers at existing locations.

(C) 0 to 150 Baud

Provides standard RS-232C interface to customer terminal equipment and converts customer terminal equipment signals to voice frequency signaling for transmission over two-wire or four-wire voiceband facilities. This terminating option is obsolete and is limited to those circuits so equipped and in service for existing customers at existing locations.

5.3.2 Voice Grade

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

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

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

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

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5. SPECIAL ACCESS (Cont'd)

5.3 Description of Terminating Options (Cont'd)

5.3.2 Voice Grade (Cont'd)

(C) Voice Grade Data Termination

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

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

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

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

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

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

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

(G) Dial Repeating Tie Trunk Termination

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

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

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5. SPECIAL ACCESS (Cont'd)

5.3 Description of Terminating Options (Cont'd)

5.3.2 Voice Grade (Cont'd)

(G) Dial Repeating Tie Trunk Termination (Cont'd)

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

5.3.3 Program Audio

(A) 200 to 3500 Hz

Provides standard program audio interface levels and impedance matching to two-wire network facilities.

(B) 100 to 5000 Hz, 50 to 8000 Hz, and 50 to 15000 Hz

Provides standard program audio interface levels, circuit equalization and impedance matching to two-wire network facilities.

5.3.4 Videoband

Provides a Videoband Special Access Line interface for use in providing the one way transmission of video signals.

Standard Videoband service is provided via one signal (combined video and audio). This signal is in the 30 hz to 6.6 MHz frequency range. It includes a one-way duplexed transmission of standard 525 lines/60 fields monochrome or NTSC color video signal, and one or two associated 15 kHz audio signals.

As an option, the customer may select to receive Videoband service via two or three signals (one video and one or two audio). Under this option, the video signal received will be in the 30 Hz to 4.5 MHz frequency range and the one or two audio signals will be in the 50 Hz to 15000 Hz frequency range.

5.3.5 Wideband Data Service *

(A) Provides a Wideband Data Service Special Access interface for use in providing two-way transmission of sequential synchronous or nonsynchronous data at rates of 19.2, 50 or 230.4 kbps; or sequential synchronous bipolar data signals at a rate of 56 kbps over four-wire facilities.

(B) (Reserved for Future Use)

* Limited to existing customers at existing locations.

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5. SPECIAL ACCESS (Cont'd)

5.3 Description of Terminating Options (Cont'd)

5.3.6 High Capacity Digital

(A) High Capacity Digital DS1

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

(B) High Capacity Digital DS1C

Provides a High Capacity Digital DS1C Special Access interface for use in providing simultaneous two-way transmission of isochronous bipolar serial data signals at the rate of 3.152 Mbps.

(C) Fractional T1 Service

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

(D) (Reserved for Future Use)

(E) High Capacity Digital DS3

Provides a High Capacity Digital DS3 Special Access interface for use in providing simultaneous two-way transmission of isochronous bipolar serial data signals at the rate of 44.736 Mbps. The Telephone Company will provide an electrical interface with the service unless otherwise specified by the customer.

(F) High Capacity Digital DS3C

Provides a High Capacity Digital DS3C Special Access interface for use in providing simultaneous two-way transmission of isochronous bipolar serial data signals at the rate of 89.472 Mbps. The Telephone Company will provide an optical interface with this service unless the service is provided via microwave, in which case, an electromagnetic interface is provided, or unless the customer requests an electrical interface.

5.3.7 Digital Data Service (DDS)

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

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5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features

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

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

5.4.1 Bridging

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

(A) MultiPoint Data Bridging (T)

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

5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features

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

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

5.4.1 Bridging

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

(A) MultiPoint Data Bridging (USOC - BSNDJ)

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

5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.1 Bridging (Cont'd)

(B) Voice Conference Bridging (T)

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

(C) Alarm Distribution Bridging (T)

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

(D) Program Audio Bridging (T)

An arrangement to provide multiple channel outputs from a single Program Audio or Voiceband facility. This arrangement is provided and rated on a per port basis.

(E) (Reserved for Future Use)

(F) DDS Bridging (T)

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

5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.1 Bridging (Cont'd)

(B) Voice Conference Bridging (USOC - B5NVJ)

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

(C) Alarm Distribution Bridging (USOC - BCNTA)

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

(D) Program Audio Bridging (USOC - BCNPT)

An arrangement to provide multiple channel outputs from a single Program Audio or Voiceband facility. This arrangement is provided and rated on a per port basis.

(E) (Reserved for Future Use)

(F) DDS Bridging (USOC - BCNDA)

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

5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.2 Conditioning Arrangements – Data

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

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

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

(A) Type C (T)

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

(1) Attenuation distortion with reference to 1004 Hz.

(2) Envelope delay distortion.

(B) Type C-Improved

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

(1) Improved attenuation distortion with reference to 1004 Hz. (T)

(2) Improved envelope delay distortion. (T)

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

5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.2 Conditioning Arrangements - Data

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

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

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

(A) Type C (USOC - X1CPT)

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

(1) Attenuation distortion with reference to 1004 Hz.

(2) Envelope delay distortion.

(B) Type C-Improved

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

(1) Improved attenuation distortion with reference to 1004 Hz. (USOC - UHW)

(2) Improved envelope delay distortion. (USOC - UHY)

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

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5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.2 Conditioning Arrangements - Data (Cont'd)

(C) Type DA (T)

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

(1) Signal to C-notched noise ratio.

(2) Nonlinear signal to second order distortion.

(3) Nonlinear signal to third order distortion.

5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.2 Conditioning Arrangements - Data (Cont'd)

(C) Type DA (USOC - XDCPT)

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

(1) Signal to C-notched noise ratio.

(2) Nonlinear signal to second order distortion.

(3) Nonlinear signal to third order distortion.

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5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.3 Conditioning - Program Audio

(A) Stereo Conditioning (T)

Provides the option of two radio program facilities which are identical in all transmission characteristics. Two Program Audio facilities are required to provide this Supplemental Feature. This feature is normally used only with Program Audio 50 to 15000 Hz facilities. Stereo Conditioning is charged on a per occurrence basis.

(B) Zero Loss (T)

Conditioning of Program Audio facilities to provide zero loss at 1000 Hz test frequency. Zero Loss is charged on a per Special Access Line basis.

5.4.4 Signaling Arrangements (T)

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

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

Signaling arrangement charges apply whenever interfaces at the customer premises or at the customer's Telephone Company serving wire center require a signaling arrangement other than those provided with the Terminating Options in 5.3.2 preceding. Signaling Arrangements will be charged on a per SAL basis. Specifically, a signaling charge applies if the signaling protocol characters in the NCI and the SEC NCI fields are different and include one of the following codes: RV, EX, SF, DX, DY, DS, AB.

5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.3 Conditioning - Program Audio

(A) Stereo Conditioning (USOC - XCS)

Provides the option of two radio program facilities which are identical in all transmission characteristics. Two Program Audio facilities are required to provide this Supplemental Feature. This feature is normally used only with Program Audio 50 to 15000 Hz facilities. Stereo Conditioning is charged on a per occurrence basis.

(B) Zero Loss (USOC - XZB)

Conditioning of Program Audio facilities to provide zero loss at 1000 Hz test frequency. Zero Loss is charged on a per Special Access Line basis.

5.4.4 Signaling Arrangements (USOC - OS+; XSSLR)

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

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

Signaling arrangement charges apply whenever interfaces at the customer premises or at the customer's Telephone Company serving wire center require a signaling arrangement other than those provided with the Terminating Options in 5.3.2 preceding. Signaling Arrangements will be charged on a per SAL basis. Specifically, a signaling charge applies if the signaling protocol characters in the NCI and the SEC NCI fields are different and include one of the following codes: RV, EX, SF, DX, DY, DS, AB.

5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.4 Signaling Arrangements (Cont'd)

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

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

Listed below are the Signaling Arrangements offered under this tariff:

(A) Loop Signaling Range Extension - An arrangement to extend the metallic resistance limitations of loop type signaling. (T)

(B) Conversion of Loop or E&M Signaling to SF - An arrangement to convert loop or E&M signaling to the single frequency signaling format. (T)

(C) E&M to DX Signaling Conversion - Conversion of E&M signaling to the DX signaling format. (T)

(D) E&M to Loop Signaling Conversion - Conversion of E&M signaling format to the loop type signaling. (T)

(E) Loop or E&M to PCM Signaling - Conversion of loop or E&M signaling to the digital (PCM) signaling format. (T)

(F) Automatic Ringdown Signaling (ARD) - A signaling arrangement on a two-point Special Access which converts loop seizure at one end of the facility into ringing signal at the opposite end. (T)

5.4.5 Echo Control

(A) Echo Suppression (T)

An arrangement provided at the customer's request to attenuate reflected speech energy on a four-wire facility. This conditioning is generally required on circuits with long propagation delay. Echo suppression is charged on a per Special Access circuit basis. Echo suppression is an obsolete service offering and is applicable only to those circuits equipped with echo suppression prior to January 1, 1987. Any service rearrangements or order activity on the circuits equipped with echo suppression may require a change to echo canceller as described in 5.4.5(B) following.

5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.4 Signaling Arrangements (Cont'd)

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

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

Listed below are the Signaling Arrangements offered under this tariff:

(A) Loop Signaling Range Extension - An arrangement to extend the metallic resistance limitations of loop type signaling. (USOC - OSA)

(B) Conversion of Loop or E&M Signaling to SF - An arrangement to convert loop or E&M signaling to the single frequency signaling format. (USOC - OSB)

(C) E&M to DX Signaling Conversion - Conversion of E&M signaling to the DX signaling format. (USOC - OSC)

(D) E&M to Loop Signaling Conversion - Conversion of E&M signaling format to the loop type signaling. (USOC - OSD)

(E) Loop or E&M to PCM Signaling - Conversion of loop or E&M signaling to the digital (PCM) signaling format. (USOC - OSN)

(F) Automatic Ringdown Signaling (ARD) - A signaling arrangement on a two-point Special Access which converts loop seizure at one end of the facility into ringing signal at the opposite end. (USOC - XSSLR)

5.4.5 Echo Control

(A) Echo Suppression (USOC - OE1)

An arrangement provided at the customer's request to attenuate reflected speech energy on a four-wire facility. This conditioning is generally required on circuits with long propagation delay. Echo suppression is charged on a per Special Access circuit basis. Echo suppression is an obsolete service offering and is applicable only to those circuits equipped with echo suppression prior to January 1, 1987. Any service rearrangements or order activity on the circuits equipped with echo suppression may require a change to echo canceller as described in 5.4.5(B) following.

5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.5 Echo Control (Cont'd)

(B) Echo Canceller (T)

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

5.4.6 Improved Return Loss (T)

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

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

5.4.7 Voiceband Facility Switching Arrangement (T)

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

5.4.8 Automatic Protection Switch (T)

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

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

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

5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.5 Echo Control (Cont'd)

(B) Echo Canceller (USOC - ORJ)

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

5.4.6 Improved Return Loss (USOC - 1RL)

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

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

5.4.7 Voiceband Facility Switching Arrangement (USOC - UST)

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

5.4.8 Automatic Protection Switch (USOC - APP)

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

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

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

5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.9 Improved Termination Option (T)

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

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

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

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

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

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

5. SPECIAL ACCESS (Cont'd)

5.4 Description of Supplemental Features (Cont'd)

5.4.9 Improved Termination Option (USOC - X4T)

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

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

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

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

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

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

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5. SPECIAL ACCESS (Cont'd)

5.5 Description of Multiplexing Arrangements

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

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

Listed below are the multiplexing arrangements offered under this tariff.

(A) (Reserved for Future Use)

(B) Group to Voice (T)

An arrangement that multiplexes twelve voice grade circuits to a single wideband analog group band circuit, or multiplexes a single wideband analog group band circuit to twelve voice grade circuits.

(C) Supergroup to Group (T)

An arrangement that multiplexes five wideband analog group band circuits to a single wideband analog supergroup band circuit, or multiplexes a single wideband analog supergroup band circuit to five wideband analog group band circuits.

(D) Mastergroup to Supergroup (T)

An arrangement that multiplexes ten wideband analog supergroup band circuits to a single wideband analog mastergroup band circuit, or multiplexes a single wideband analog mastergroup band circuit to ten wideband analog supergroup band circuits.

(E) DS1 to Voice (T)

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

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

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

5. SPECIAL ACCESS (Cont'd)

5.5 Description of Multiplexing Arrangements

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

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

Listed below are the multiplexing arrangements offered under this tariff.

(A) (Reserved for Future Use)

(B) Group to Voice (USOC - MQV++)

An arrangement that multiplexes twelve voice grade circuits to a single wideband analog group band circuit, or multiplexes a single wideband analog group band circuit to twelve voice grade circuits.

(C) Supergroup to Group (USOC - MQS++)

An arrangement that multiplexes five wideband analog group band circuits to a single wideband analog supergroup band circuit, or multiplexes a single wideband analog supergroup band circuit to five wideband analog group band circuits.

(D) Mastergroup to Supergroup (USOC - MQ9++)

An arrangement that multiplexes ten wideband analog supergroup band circuits to a single wideband analog mastergroup band circuit, or multiplexes a single wideband analog mastergroup band circuit to ten wideband analog supergroup band circuits.

(E) DS1 to Voice (USOC - MQ1)

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

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

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

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5. SPECIAL ACCESS (Cont'd)

5.5 Description of Multiplexing Arrangements (Cont'd)

(F) (Reserved for Future Use)

(G) (Reserved for Future Use)

(H) (Reserved for Future Use)

(I) DS3 to DS1 (T)

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

(J) DS3C to DS1 (T)

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

(K) Group to DS1 (T)

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

(L) Digital Data Carrier Multiplexer (T)

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

(M) Digital Data Subrate Multiplexer (T)

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

5. SPECIAL ACCESS (Cont'd)

5.5 Description of Multiplexing Arrangements (Cont'd)

(F) (Reserved for Future Use)

(G) (Reserved for Future Use)

(H) (Reserved for Future Use)

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

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

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

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

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

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

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

An arrangement that multiplexes a single DS1 1.544 Mbps digital circuit to twenty-three DS0 digital ports for connection to either a subrate data multiplexer as described in 5.5(M) following or 56 Kbps digital circuits.

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

Used with cascading multiplexing, the Digital Data Subrate Multiplexer is an arrangement that multiplexes the following quantities of subrate digital data circuits into a single DS0 digital port: 1) twenty 2.4 Kbps, 2) ten 4.8 Kbps or 3) five 9.6 Kbps. In turn, the DS0 digital port is then multiplexed to a single DS1 digital circuit using the Digital Data Carrier Multiplexer described in 5.5(L) preceding.

5. SPECIAL ACCESS (Cont'd)

5.6 Rate Regulations (Cont'd)

5.6.1 Types of Rates and Charges (Cont'd)

(D) Nonrecurring Charges

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

(1) Special Access Ordering Charges

Special Access Ordering Charges are associated with the work performed by the Telephone Company in connection with the receiving, recording and processing of customer service requests. There are two types of service ordering charges.

(a) Initial Ordering Charge - Special Access (USOC - SESCL)

This charge applies on a per Access Service Request (ASR) basis, including those requests to add additional termination to an existing service.

(b) Subsequent Ordering Charge - Special Access (USOC - SESBX)

This charge applies on a per ASR basis for modifications to an existing service. This would include activities such as:

- Additions of supplemental features and multiplexing arrangements.
- Changes in the type of transport rate option from Switched Transport to Special Transport for FGA and FGB Switched Access Service as described in 4.1 preceding.

(2) Nonrecurring Charge for Service Installation

The Nonrecurring Charge for service installation is associated with the work performed by the Telephone Company in connection with the physical installation activities involving central office and/or outside plant facilities. This charge applies on a per SAL basis for the installation of service, and for additional terminations to existing service.

5. SPECIAL ACCESS (Cont'd)

5.6 Rate Regulations (Cont'd)

5.6.1 Types of Rates and Charges (Cont'd)

(D) Nonrecurring Charges (Cont'd)

(3) Design Change Charge (USOC - H28)

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

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

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

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

(4) Installation of Supplemental Features and Multiplexing Arrangements

Nonrecurring charges apply for the installation of certain supplemental features and multiplexing arrangements available with Special Access service. The charge applies whether the feature or multiplexing arrangement is installed coincident with the initial installation of service or at any time subsequent to the installation of service. These charges are in addition to the appropriate Special Access Ordering Charge as set forth in 5.6.1(D)(1).

(5) Installation of DS1 and FT1 Special Access Lines

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

(b) (Reserved for Future Use)

(c) (Reserved for Future Use)

5. SPECIAL ACCESS (Cont'd)

5.6 Rate Regulations (Cont'd)

5.6.1 Types of Rates and Charges (Cont'd)

(D) Nonrecurring Charges (Cont'd)

(5) Installation of DS1 and FT1 Special Access Lines (Cont'd)

(b) Fractional T1 Standard Arrangements (T)

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

(c) Fractional T1 Optional Payment Plan (OPP) Arrangements (T)

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

The regulations in Section 5.6.1(D)(8) will apply to FT1 OPP customers when required for changes and other service rearrangements.

5. SPECIAL ACCESS (Cont'd)

5.6 Rate Regulations (Cont'd)

5.6.1 Types of Rates and Charges (Cont'd)

(D) Nonrecurring Charges (Cont'd)

(5) Installation of DS1 and FT1 Special Access Lines (Cont'd)

(d) Fractional T1 Standard Arrangements

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

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

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

The regulations in Section 5.6.1(D)(8) will apply to FT1 OPP customers when required for changes and other service rearrangements.

5. SPECIAL ACCESS (Cont'd)

5.6 Rate Regulations (Cont'd)

5.6.1 Types of Rates and Charges (Cont'd)

(D) Nonrecurring Charges (Cont'd)

(6) Installation of Temporary Videoband Service

There are two nonrecurring charges for the installation of Temporary Videoband Service. One nonrecurring charge will be assessed when permanent in place facilities are used to provide the service, and a different nonrecurring charge will be assessed when nonpermanent portable facilities are used to provide the service.

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FACILITIES FOR INTRASTATE ACCESS

5 SPECIAL ACCESS (Cont'd)

5.6 Rate Regulations (Cont'd)

5.6.6 Hub Wire Centers (Cont'd)

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

The rates that apply for Program Audio Services between each CDL and the Hub Wire Center are Special Transport, if applicable, and Special Access Line. In addition, rates for Supplemental Features may be applicable.

5.6.7 Shared Use Analog and Digital High Capacity Services (C)

Monthly charges for a DS1 or DS3 high capacity shared used facility will be apportioned between Switched and Special Access based on the relative proportion of channels used for switched and special access in the following manner.

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

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

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

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

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

5.6.8 (Reserved For Future Use)

5. SPECIAL ACCESS (Cont'd)

5.6 Rate Regulations (Cont'd)

5.6.6 Hub Wire Centers (Cont'd)

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

The rates that apply for Program Audio Services between each CDL and the Hub Wire Center are Special Transport, if applicable, and Special Access Line. In addition, rates for Supplemental Features and Inside Wiring may be applicable.

5.6.7 Shared Use Analog and Digital High Capacity Services

(A) Shared use occurs when Special Access Service and Switched Access Service are provided over the same digital high capacity facility through a common interface. Shared use refers to the service arrangement where the customer orders a digital high capacity facility between a CDL and the Hub Wire Center where the Telephone Company performs multiplexing functions and the customer then orders the derived channels as Special and Switched Access services.

The shared use facility will be ordered, provided and rated as Special Access Service (i.e., Special Access Line, Special Transport and Special Transport Termination, as appropriate, and Multiplexer). The nonrecurring charge that applies when the shared use facility is installed will be the nonrecurring charge associated with the appropriate High Capacity Special Access Line. When the customer orders derived channels as Switched or Special, the nonrecurring charges applicable to those individual services will be assessed. The rate elements associated with the high capacity facility and multiplexer will be billed to one customer. The rate elements associated with each individual channel may be billed to a different customer.

Rating as Special Access will continue until such time as a portion of the available capacity for providing Special Access Service is used to provide Switched Access Service. As each individual channel is activated for Switched Access Service, the Special Access Line, Special Transport and Special Transport Termination as appropriate, and Multiplexer, will be reduced based on their rates and capacity, accordingly, (i.e., 1/24th for a DS1 Service). Switched Access Minimum Capacity Requirements as set forth in 3.5 preceding will not apply. The customer must submit an ASR for each individual Switched or Special Access Service utilizing the shared use facility and specify the channel assignment (CFA) for each service. The customer for the individual Switched Access and Special Access Services may be different.

(B) Switched Access Service rates and charges as set forth in Section 4 preceding will apply for each derived channel of the shared use facility that is used to provide Switched Access Service. Where Special Access Service is provided utilizing a channel of the shared use facility to the hub, High Capacity Special Access rates will apply for the facility to the hub as set forth preceding and individual service rates will apply from the hub to the terminating customer designated location. The rates that will apply to the portion from the hub to the terminating customer designated location will be dependent on the specific type of Special Access Service that is provided (i.e., Voice Grade). The applicable rates will include a Special Access Line and Special Transport, if applicable. Rates for optional features and functions, if any, associated with the service will also apply.

5.6.9 (Reserved for Future Use)

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Chief Operating Officer
Kansas City, Missouri

5. SPECIAL ACCESS (Cont'd)

5.6 Rate Regulations (Cont'd)

5.6.9 Special Access Surcharge (USOC - S25)

Pending the development of techniques to accurately measure usage of local facilities which are interconnected by users by means of intrastate or foreign telecommunications, a surcharge of $25.00 per service per month will be assessed to a two point Special Access Service, and to each additional Special Access Line when the service is configured as multipoint. The Special Access Surcharge will also be assessed upon Wideband Analog, High Capacity Digital and FT1 Services on a voiceband equivalent basis. The voiceband equivalency for these type services is as follows:

-High Capacity DS1 equates to 24 Voiceband Facilities
-High Capacity DS1C equates to 48 Voiceband Facilities
-High Capacity DS3 equates to 672 Voiceband Facilities
-High Capacity DS3C equates to 1344 Voiceband Facilities
-Wideband Group equates to 12 Voiceband Facilities
-Wideband Supergroup equates to 60 Voiceband Facilities
-Wideband Mastergroup equates to 600 Voiceband Facilities
-Each 56 Kbps or 64 Kbps Channel in a FT1 Service equates to one Voiceband Facility.

The Special Access Service will be exempted from the monthly surcharge if the customer provides the Telephone Company written certification that the termination is one of the following: (USOC - S25EX)

(1) The open end termination (dial tone end) of a Foreign Central Office Line, Common Control Switching Arrangement (or equivalent) or Off Network Access Line (ONAL).

(2) Any termination of an analog circuit used for radio or television program transmission.

(3) Any termination of a line used for telex service.

(4) Any termination of a line by nature of its operating characteristics and nature of connection could not make use of common lines.

(5) Any line termination, other than (1) through (4) preceding, which is subject to the following charges: (a) Carrier Common Line, (b) End Office Switching, and (c) Switched Transport.

(6) A termination that the customer certifies to the Telephone Company is not connected to a PBX or other device capable of interconnecting the Special Access Service to the local network. If the PBX or other device has been configured either through software programming or physical restrictions not to access the local network, then the customer may file the surcharge exemption for the Special Access Service terminating on this equipment.

5. SPECIAL ACCESS (Cont'd)

5.6 Rate Regulations (Cont'd)

5.6.9 Special Access Surcharge (Cont'd)

In order for the Telephone Company to determine the application of the surcharge with respect to specific services, the customer must report the intended use of all services when placing ASRs for Special Access Service. In addition, when ordering High Capacity Analog or Digital services, the customer must report the use for each voice equivalent circuit of the high capacity service. When any circuit is reported wholly used in any manner described in (1) through (6) preceding, the surcharge will not apply. If the intended use is not reported, the surcharge will apply.

If, at any time after the installation of a service which is subject to the surcharge, the customer reports that the service is being used consistently with any exception listed above, the Telephone Company will credit the customer for the surcharge. Credit will not be given beyond the receipt date of the certification for exemption.

5.6.10 Message Station Equipment Recovery Charge (USOC - UTM)

Message Station Equipment Recovery Charge is a charge to recover that portion of message station equipment which is assigned to Special Access Service. Since there is zero cost assigned to Message Station Equipment Recovery in Special Access the charge is $.00.

5.6.11 (Reserved for Future Use)

5. SPECIAL ACCESS (Cont'd)

5.6 Rate Regulations (Cont'd)

5.6.12 Optional Payment Plan (OPP)

(A) General

(1) The terms and conditions specified herein are applicable to FT1 service. Additional terms and conditions for FT1 OPP are set forth in 5.6.12(I).

(2) Only the Special Access Line (SAL) rate element is available under an OPP. All other associated rate elements or additional features are available at the standard month-to-month tariffed rates and regulations.

(3) FT1 OPP SAL rates will not be greater than standard month-to-month SAL rates.

(4) Three year and five year OPP rates will be equal to or less than the one year OPP rates. Decreases to the one year OPP will flow through to the three year and five year OPP.

(5) Payment periods of one year, three year, and five year are available to all customers at the applicable rates set forth in 5.7.9(B) regardless of when they subscribe to an OPP arrangement.

(6) The customer must designate on the ASR the payment period for the OPP.

(7) Inside moves, provided in accordance with 5.6.4, will not incur termination liability charges.

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

(B) Changes in Length of OPP Period

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

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

5. SPECIAL ACCESS (Cont'd)

5.6 Rate Regulations (Cont'd)

5.6.12 Optional Payment Plan (OPP) (Cont'd)

(C) Renewal Options

(1) At the expiration of an OPP period, the Telephone company will automatically renew the service at the same OPP period unless the customer chooses to convert to a different OPP period, convert to month-to-month rates or discontinue service.

(2) Conversion to a different OPP period will require the customer to submit a change order ASR. Conversion to a different OPP period will be allowed without application of any nonrecurring or ordering charges.

(3) Conversion to month-to-month rates will be treated as a disconnect of service and establishment of new service. If no other changes are ordered, no NRCs will apply.

(D) Notification of Discontinuance

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

(E) Upgrade to Higher Speed Service

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

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

(F) Termination Liability

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

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

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

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

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5. SPECIAL ACCESS (Cont'd)

5.6 Rate Regulations (Cont'd)

5.6.12 Optional Payment Plan (OPP) (Cont'd)

(F) Termination Liability

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

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

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

[(Three year monthly rate - Five year monthly rate) x 42 months]

(G) Termination Without Liability

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

(R) (Reserved for Future Use)

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5. SPECIAL ACCESS (Cont'd)

5.6 Rate Regulations (Cont'd)

5.6.12 Optional Payment Plan (OPP) (Cont'd)

(I) OPP for FT1 Service

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

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

5.6.13 (Reserved for Future Use)

5.6.14 (Reserved for Future Use)

5.6.15 (Reserved for Future Use)

Kenneth Matzdorff
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5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges

5.7.1 Nonrecurring Charges

Special Access Ordering Charges

(USOC)	Initial Order (SESCL)	Subsequent Order (SESBX)	Design Change Per ASR/Per Occurrence (H28)
	$116.24	$85.85	$27.00

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5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.2 Voiceband Facilities

(A) Standard Arrangements

Special Transport (Per Airline Mile) Monthly Rate	Special Access Line Nonrecurring Charge	Special Access Line Two-Wire Monthly Rate	Special Access Line Four-Wire Monthly Rate	
				(T)
				(T)
$ 5.71	$210.00	$34.72	$66.15	

(B) Optional Arrangements

Supplemental Features Multipoint Data Bridging (Per Port) Nonrecurring Charge	Multipoint Data Bridging (Per Port) Monthly Rate	Voice Conference Bridging (Per Port) Nonrecurring Charge	Voice Conference Bridging (Per Port) Monthly Rate	
				(T)
$ 0.00	$ 8.00	$ 0.00	$ 8.00	

Supplemental Features Alarm Distribution Bridging Common Equipment Nonrecurring Charge	Common Equipment Monthly Rate	Per Two-Wire Port Nonrecurring Charge	Per Two-Wire Port Monthly Rate	
				(T)
$ 0.00	$30.00	$ 0.00	$ 2.00	

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.2 Voiceband Facilities

(A) Standard Arrangements

	Special Transport (Per Airline Mile) Monthly Rate	Special Access Line Nonrecurring Charge	Special Access Line Two-Wire Monthly Rate	Special Access Line Four-Wire Monthly Rate
(USOC)	(1LFSX)	(EUC2X) (EUC4X)	(EUC2X)	(EUC4X)
	$ 5.71 (I)	$210.00 (I)	$34.72 (I)	$66.15 (I)

(B) Optional Arrangements

	Supplemental Features: Multipoint Data Bridging (Per Port) Nonrecurring Charge	Multipoint Data Bridging (Per Port) Monthly Rate	Voice Conference Bridging (Per Port) Nonrecurring Charge	Voice Conference Bridging (Per Port) Monthly Rate
(USOC)		(B5NDJ)		(B5NVJ)
	$ 0.00	$ 8.00	$ 0.00	$ 8.00

	Supplemental Features: Alarm Distribution Bridging Common Equipment Nonrecurring Charge	Common Equipment Monthly Rate	Per Two-Wire Port Nonrecurring Charge	Per Two-Wire Port Monthly Rate
(USOC)		(BCNTA)		(CNLRX)
	$ 0.00	$30.00	$ 0.00	$ 2.00

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.2 Voiceband Facilities

(A) Standard Arrangements

	Special Transport (Per Airline Mile) Monthly Rate	Special Access Line		
		Nonrecurring Charge	Two-Wire Monthly Rate	Four-Wire Monthly Rate
(USOC)	(1LFSX)	(EUC2X) (EUC4X)	(EUC2X)	(EUC4X)
	$ 5.44 (I)	$200.00	$33.07 (I)	$63.00 (I)

(B) Optional Arrangements

	Supplemental Features			
	Multipoint Data Bridging (Per Port)		Voice Conference Bridging (Per Port)	
	Nonrecurring Charge	Monthly Rate	Nonrecurring Charge	Monthly Rate
(USOC)	(B5NDJ)		(B5NVJ)	
	$ 0.00	$ 8.00	$ 0.00	$ 8.00

	Supplemental Features			
	Alarm Distribution Bridging			
	Common Equipment		Per Two-Wire Port	
	Nonrecurring Charge	Monthly Rate	Nonrecurring Charge	Monthly Rate
(USOC)	(BCNTA)		(CNLRX)	
	$ 0.00	$30.00	$ 0.00	$ 2.00

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.2 Voiceband Facilities

(A) Standard Arrangements

	Special Transport (Per Airline Mile) Monthly Rate (USOC) (1LFSX)	Special Access Line Nonrecurring Charge (EUC2X) (EUC4X)	Special Access Line Two-Wire Monthly Rate (EUC2X)	Special Access Line Four-Wire Monthly Rate (EUC4X)
	$ 5.19	$200.00	$31.50 (I)	$60.00 (I)

(B) Optional Arrangements

	Multipoint Data Bridging (Per Port) Nonrecurring Charge (USOC)	Multipoint Data Bridging (Per Port) Monthly Rate (B5NDJ)	Supplemental Features Voice Conference Bridging (Per Port) Nonrecurring Charge	Supplemental Features Voice Conference Bridging (Per Port) Monthly Rate (B5NVJ)
	$ 0.00	$ 8.00	$ 0.00	$ 8.00

	Supplemental Features Alarm Distribution Bridging Common Equipment Nonrecurring Charge (USOC)	Common Equipment Monthly Rate (BCNTA)	Per Two-Wire Port Nonrecurring Charge	Per Two-Wire Port Monthly Rate (CNLRX)
	$ 0.00	$30.00	$ 0.00	$ 2.00

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.2 Voiceband Facilities

(A) Standard Arrangements

(USCC)	Special Transport (Per Airline Mile) Monthly Rate (1LPSX)	Special Access Line Nonrecurring Charge (EUC2X) (EUC4X)	Special Access Line Two-Wire Monthly Rate (EUC2X)	Special Access Line Four-Wire Monthly Rate (EUC4X)
	$ 5.19	$200.00	$30.00	$58.20

(B) Optional Arrangements

(USOC)	Supplemental Features Multipoint Data Bridging (Per Port) Nonrecurring Charge	Monthly Rate (B5NDJ)	Supplemental Features Voice Conference Bridging (Per Port) Nonrecurring Charge	Monthly Rate (B5NVJ)
	$ 0.00 (R)	$ 8.00	$ 0.00	$ 8.00

(USOC)	Supplemental Features Alarm Distribution Bridging Common Equipment Nonrecurring Charge	Monthly Rate (BCNTA)	Per Two-Wire Port Nonrecurring Charge	Monthly Rate (CNLRX)
	$ 0.00	$30.00	$ 0.00	$ 2.00

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5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.2 Voiceband Facilities (Cont'd)

(B) Optional Arrangements (Cont'd)

Supplemental Features
Conditioning Arrangements - Data

Type C		Type DA	
Nonrecurring Charge	Monthly Rate	Nonrecurring Charge	Monthly Rate
$ 0.00	$ 11.86	$ 0.00	$ 2.00

(T)

Supplemental Features
Conditioning Arrangements - Data
Type C - Improved

Nonrecurring Charge	Monthly Rate
$ 3.00	$ 30.00

(T)

Supplemental Features
Signaling Arrangement

Loop Signaling Range Extension, per SAL		Loop or E&M to SF, per SAL	
Nonrecurring Charge	Monthly Rate	Nonrecurring Charge	Monthly Rate
$ 0.00	$ 10.00	$ 0.00	$ 16.00

(T)

Supplemental Features
Signaling Arrangement

E&M to DX, per SAL		E&M to Loop, per SAL	
Nonrecurring Charge	Monthly Rate	Nonrecurring Charge	Monthly Rate
$ 0.00	$ 14.00	$ 0.00	$ 12.00

(T)

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.2 Voiceband Facilities (Cont'd)

(B) Optional Arrangements (Cont'd)

	Supplemental Features Conditioning Arrangements - Data Type C		Type DA	
(USOC)	Nonrecurring Charge	Monthly Rate (X1CPT)	Nonrecurring Charge	Monthly Rate (XDCPT)
	$ 0.00	$ 11.86	$ 0.00	$ 2.00

	Supplemental Features Conditioning Arrangements - Data Type C - Improved	
(USOC)	Nonrecurring Charge (UHV, UHW, XCECM)	Monthly Rate (UHV, UHW, XCECM)
	$ 3.00	$ 30.00

	Supplemental Features Signaling Arrangement			
	Loop Signaling Range Extension, per SAL		Loop or E&M to SF, per SAL	
(USOC)	Nonrecurring Charge	Monthly Rate (OSA)	Nonrecurring Charge	Monthly Rate (OSB)
	$ 0.00	$ 10.00	$ 0.00	$ 16.00

	Supplemental Features Signaling Arrangement			
	E&M to DX, per SAL		E&M to Loop, per SAL	
(USOC)	Nonrecurring Charge	Monthly Rate (OSC)	Nonrecurring Charge	Monthly Rate (OSD)
	$ 0.00	$ 14.00	$ 0.00	$ 12.00

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.2 Voiceband Facilities (Cont'd)

(B) Optional Arrangements (Cont'd)

Supplemental Features
Signaling Arrangement

Loop or E&M to PCM, per SAL		Automatic Ringdown, per SAL		
Nonrecurring Charge	Monthly Rate	Nonrecurring Charge	Monthly Rate	
$ 0.00	$ 4.00	$ 0.00	$16.78	(T)

Supplemental Features
Echo Control

Echo Suppression, per circuit *		Echo Canceller, per circuit		
Nonrecurring Charge	Monthly Rate	Nonrecurring Charge	Monthly Rate	
$ 0.00	$ 30.00	$ 0.00	$ 85.00	(T)

Supplemental Features
Voiceband Facility Switching Arrangement

Nonrecurring Charge	Monthly Rate	
$ 0.00	$ 7.00	(T)

* Obsolete and is applicable only to existing customers at existing locations.

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.2 Voiceband Facilities (Cont'd)

(B) Optional Arrangements (Cont'd)

Supplemental Features
Signaling Arrangement

(USOC)	Loop or E&M to PCM, per SAL		Automatic Ringdown, per SAL	
	Nonrecurring Charge	Monthly Rate (OSH)	Nonrecurring Charge	Monthly Rate (XSSLR)
	$ 0.00	$ 4.00	$ 0.00	$16.78

Supplemental Features
Echo Control

(USOC)	Echo Suppression, per circuit *		Echo Canceller, per circuit	
	Nonrecurring Charge	Monthly Rate (OE1)	Nonrecurring Charge	Monthly Rate (ORJ)
	$ 0.00	$ 30.00	$ 0.00	$ 85.00

Supplemental Features
Voiceband Facility Switching Arrangement

(USOC)	Nonrecurring Charge	Monthly Rate (UST)
	$ 0.00	$ 7.00

* Obsolete and is applicable only to existing customers at existing locations.

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.2 Voiceband Facilities (Cont'd)

(B) Optional Arrangements (Cont'd)

Supplemental Features			
Improved Return Loss, Per SAL		Improved Termination Option, Per SAL	
Nonrecurring Charge	Monthly Rate	Nonnrecurring Charge	Monthly Rate
$ 0.00	$ 3.75	$ 0.00	$ 10.00

(T)

Supplemental Features	
Improved Equal Level Echo Path Loss, Per SAL	
Nonrecurring Charge	Monthly Rate
$ 0.00	$ 3.75

(T)

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.2 Voiceband Facilities (Cont'd)

(B) Optional Arrangements (Cont'd)

	Supplemental Features Improved Return Loss, Per SAL		Improved Termination Option, Per SAL	
(USOC)	Nonrecurring Charge	Monthly Rate (1RL)	Nonrecurring Charge	Monthly Rate (X4T)
	$ 0.00	$ 3.75	$ 0.00	$ 10.00

	Supplemental Features Improved Equal Level Echo Path Loss, Per SAL	
(USOC)	Nonrecurring Charge	Monthly Rate (ORP)
	$ 0.00	$ 3.75

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.3 Program Audio Facilities

(A) Standard Arrangements - (200-3500 Hz)

Special Transport (Per Airline Mile)		Special Access Line			
Monthly Rate	Daily Rate	Nonrecurring Charge	Monthly Rate	Daily Rate	
					(T)
$ 5.02	$ 0.50	$210.00	$ 30.00	$ 3.00	(T)

(B) Standard Arrangements - (100-5000 Hz)

Special Transport (Per Airline Mile)		Special Access Line			
Monthly Rate	Daily Rate	Nonrecurring Charge	Monthly Rate	Daily Rate	
					(T)
$59.68	$ 5.97	$210.00	$ 41.00	$ 4.10	(T)

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.3 Program Audio Facilities

(A) Standard Arrangements - (200-3500 Hz)

Special Transport (Per Airline Mile)		Special Access Line		
Monthly Rate (USOC)(1LXSX)	Daily Rate (1LFSX)	Nonrecurring Charge (EUCXX) (LCH)	Monthly Rate (EUCXX) (LCH)	Daily Rate (EUCXX) (LCH) ,
$ 5.02	$ 0.50	$210.00 (I)	$ 30.00	$ 3.00

(B) Standard Arrangements - (100-5000 Hz)

Special Transport (Per Airline Mile)		Special Access Line		
Monthly Rate (USOC)(1LXSX)	Daily Rate (1LFSX)	Nonrecurring Charge (EUCXX) (LCH)	Monthly Rate (EUCXX) (LCH)	Daily Rate (EUCXX) (LCH)
$59.68	$ 5.97	$210.00 (I)	$ 41.00	$ 4.10

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.3 Program Audio Facilities

(A) Standard Arrangements - (200-3500 Hz)

(USOC)	Special Transport (Per Airline Mile) Monthly Rate (1LXSX)	Special Transport (Per Airline Mile) Daily Rate (1LFSX)	Special Access Line Nonrecurring Charge (EUCXX) (LCH)	Special Access Line Monthly Rate (EUCXX) (LCH)	Special Access Line Daily Rate (EUCXX) (LCH)
	$ 5.02	$ 0.50	$200.00	$ 30.00	$ 3.00

(B) Standard Arrangements - (100-5000 Hz)

(USOC)	Special Transport (Per Airline Mile) Monthly Rate (1LXSX)	Special Transport (Per Airline Mile) Daily Rate (1LFSX)	Special Access Line Nonrecurring Charge (EUCXX) (LCH)	Special Access Line Monthly Rate (EUCXX) (LCH)	Special Access Line Daily Rate (EUCXX) (LCH)
	$59.68	$ 5.97	$200.00	$ 41.00	$ 4.10

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5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.3 Program Audio Facilities (Cont'd)

(C) Standard Arrangements - (50-8000 Hz)

Special Transport (Per Airline Mile)		Special Access Line			
Monthly Rate	Daily Rate	Nonrecurring Charge	Monthly Rate	Daily Rate	
					(T)
					(T)
$74.65	$ 7.47	$200.00	$ 42.00	$ 4.20	

(D) Standard Arrangements - (50-15000 Hz)

Special Transport (Per Airline Mile)		Special Access Line			
Monthly Rate	Daily Rate	Nonrecurring Charge	Monthly Rate	Daily Rate	
					(T)
					(T)
$89.61	$ 8.96	$200.00	$ 60.42	$ 6.04	

ISSUED: February 25, 2015

EFFECTIVE: March 27, 2015

Gary Kepley
Director - Regulatory Operations
Overland Park, Kansas

CANCELLED
November 1, 2021
Missouri Public
Service Commission
JI-2022-0070

FILED
Missouri Public
Service Commission
JI-2015-0263

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.3 Program Audio Facilities (Cont'd)

(C) Standard Arrangements - (50-8000 Hz)

	Special Transport (Per Airline Mile)		Special Access Line		
(USOC)	Monthly Rate (1LXSX)	Daily Rate (1LFSX)	Nonrecurring Charge (EUCXX) (LCH)	Monthly Rate (EUCXX) (LCH)	Daily Rate (EUCXX) (LCH)
	$74.65	$ 7.47	$200.00	$ 42.00	$ 4.20

(D) Standard Arrangements - (50-15000 Hz)

	Special Transport (Per Airline Mile)		Special Access Line		
(USOC)	Monthly Rate (1LXSX)	Daily Rate (1LFSX)	Nonrecurring Charge (EUCXX) (LCH)	Monthly Rate (EUCXX) (LCH)	Daily Rate (EUCXX) (LCH)
	$89.61	$ 8.96	$200.00	$ 60.42	$ 6.04

Kenneth Matzdorff
Chief Operating Officer
Kansas City, Missouri

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.3 Program Audio Facilities (Cont'd)

(E) Optional Arrangements - (50-15000 Hz Facilities only)

Supplemental Features Conditioning - Program Audio Stereo Conditioning, per occurrence		
Nonrecurring Charge	Monthly Rate	Daily Rate
$ 0.00	$ 1.31	$ 0.13

(T)

(F) Optional Arrangements - (All Bandwidths)

Supplemental Features Program Audio Bridging (Per Port)		
Nonrecurring Charge	Monthly Rate	Daily Rate
$ 0.00	$ 19.15	$ 1.92

(T)

5. SPECIAL ACCESS (Cont'd)

5.7 Rates and Charges (Cont'd)

5.7.3 Program Audio Facilities (Cont'd)

(E) Optional Arrangements - (50-15000 Hz Facilities only)

Supplemental Features
Conditioning - Program Audio
Stereo Conditioning, per occurrence

	Nonrecurring Charge	Monthly Rate (XCS)	Daily Rate (XCS)
(USCC)	$ 0.00	$ 1.31	$ 0.13

(F) Optional Arrangements - (All Bandwidths)

Supplemental Features
Program Audio Bridging (Per Port)

	Nonrecurring Charge	Monthly Rate (BCNPT)	Daily Rate (BCNPT)
(USOC)	$ 0.00	$ 19.15	$ 1.92