ACCESS SERVICES TARIFF Southwestern Bell Telephone

Section 7 4th Revised Sheet 31 Replacing 3rd Revised Sheet 31

Southwestern Bell Telephone Company d/b/a AT&T Missouri

ACCESS SERVICES

P.S.C. Mo. - No. 36

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)

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Issued: September 1, 2021

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

- 7.2 Service Descriptions-(Continued)
- 7.2.5 Wideband Analog Service-(Continued)
- C. Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Wideband Analog channel:

<u>CI</u>	<u>Bandwidth</u>
AH-B	60 kHz to 108 kHz (Group)
AH-C	312 kHz to 552 kHz (Supergroup)
AH-D	564 kHz to 3084 kHz (Mastergroup)
WD-1	300 Hz to 18 kHz
WD-2	29 kHz to 44 kHz
WD-3	28 kHz to 44 kHz

Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

- (AT) D. Optional Features, BSEs and Functions
- (AT) 1. Central Office Multiplexing BSE
 - a. Mastergroup to Supergroup

An arrangement that converts a Mastergroup channel to ten Supergroup channels using frequency division multiplexing.

b. Supergroup to Group

An arrangement that converts a Supergroup channel to five Group channels using frequency division multiplexing.

c. Group to Voice

An arrangement that converts a Group channel to twelve Voice Grade channels using frequency division multiplexing. A channel(s) of this Group level service to the Hub can also be used for Program Audio service.

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7. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

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7.2.5 Wideband Analog Service-(Continued)

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C. Channel Interfaces

The following channel interfaces (CI's) define the bandwidths that are available for a Wideband Analog channel:

<u>CI</u>	Bandwidth
AH-B	60 kHz to 108 kHz (Group)
AH-C	312 kHz to 552 kHz (Supergroup)
AH-D	564 kHz to 3084 kHz (Mastergroup)
WD-1	300 Hz to 18 kHz
WD-2	29 kHz to 44 kHz
WD-3	28 kHz to 44 kHz

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Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

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- D. Optional Features and Functions
 - 1. Central Office Multiplexing
 - a. Mastergroup to Supergroup

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An arrangement that converts a Mastergroup channel to ten Supergroup channels using frequency division multiplexing.

b. Supergroup to Group

An arrangement that converts a Supergroup channel to five Group channels using frequency division multiplexing.

c. Group to Voice

An arrangement that converts a Group channel to twelve Voice Grade channels using frequency division multiplexing. A channel(s) of this Group level service to the Hub can also be used for Program Audio service.

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- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.5 Wideband Analog Service-(Continued)
- C. Channel Interfaces

The following channel interfaces (CI's) define the bandwidths that are available for a Wideband Analog channel:

<u>CI</u>	Bandwidth
AH-B	60 kHz to 108 kHz (Group)
AH-C	312 kHz to 552 kHz (Supergroup)
AH-D	564 kHz to 3084 kHz (Mastergroup)
WD-1	300 Hz to 18 kHz
WD-2	29 kHz to 44 kHz
WD-3	28 kHz to 44 kHz

Compatible channel interfaces are set forth in Paragraph 7.3.5, E., following.

- D. Optional Features and Functions
 - 1. Central Office Multiplexing

a. Mastergroup to Supergroup

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An arrangement that converts a Mastergroup channel to ten Supergroup channels using frequency division multiplexing.

b. Supergroup to Group

An arrangement that converts a Supergroup channel to five Group channels using frequency division multiplexing.

c. Group to Voice

An arrangement that converts a Group channel—to-twelve-Voice—Grade channels using frequency division multiplexing. A channel(s) of this Group level service to the Hub can also be used for Program Audio service.

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- 7. SPECIAL ACCESS SERVICE-(Continued)
 - 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)

Missouri Public Service Commission

- B. Voice Grade Services-(Continued)
 - Voice Grade 5 (VG5) Special Access Service-(Continued)
 - d. Transmission Performance
 - C-Message Noise

The C-Message Noise shall be less than:

			Limit (dF	3rnCO)(1)
Channel	M:	ileage (mi)	Type V1	Type V2
0	-	50	32	38
51	-	100	33	39
101	-	200	35	41
201	-	400	37	43
401	-	1000	39	45

- Echo Control

Echo Control, identified as Equal Level Echo Path Loss at four-wire interfaces or Return Loss at two-wire interfaces, for both Echo Return Loss and Singing Return Loss, at either the End User's premises or IC terminal location shall be not less than the following limits:

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(1) Where facility network provided. Where the Type Vi wpsrpumeters cannot be supported, Type V2 will be provided.

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ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
 - 7.2 Service Descriptions-(Continued)

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- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.5 Wideband Analog Service-(Continued)
- (AT) D. Optional Features, BSEs and Functions-(Continued)
- (AT) 1. Central Office Multiplexing BSE-(Continued)
 - d. Group to DS1

An arrangement that converts two Group channels to a DS1 channel using analog to digital conversion.

The following table shows the technical specifications packages (AT) with which the optional features, BSEs and functions are available.

Available with Technical Specifications Package WA-

1 2 2A 3 4

Central Office

Multiplexing:

- -Mastergroup to Supergroup
- -Supergroup to Group
- -Group to Voice
- -Group to DS1(1)

X

X

X

(1) Requires two channels with technical specifications package WA1 to form a WA1T service.

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(CP) ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
 - 7.2.5 Wideband Analog Service-(Continued)
 - D. Optional Features and Functions-(Continued)
 - Central Office Multiplexing-(Continued)
 - d. Group to DSI

An arrangement that converts two Group channels to a DS1 channel using analog to digital conversion.

X

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

> Available with Technical Specifications Package WA-

2 <u>2.A</u>

Central Office Multiplexing:

-Mastergroup to Supergroup

-Supergroup to Group

-Group to Voice

-Group to DS1(1)

X X

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(I) Requires two channels with technical specifications package W a WAlT service.

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SPECIAL ACCESS SERVICE-(Continued)

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7.2 Technical Service Descriptions for Special Access Service-(Continued)

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- 7.2.1 Analog Services-(Continued)
- B. Voice Grade Services-(Continued)
 - Voice Grade 5 (VG5) Special Access Service-(Continued)
 - d. Transmission Performance-(Continued)
 - Echo Control-(Continued)

Effective Two Wire Transmission

(Four-wire interface at the IC terminal location and two-wire interface at the End User's premises.)

	Echo Return Loss	Singing Return Loss
Standard Two-Wire Interface		•
(Return Loss)	5 dB	2.5 dB
Four-Wire Interface (Equal Level Echo Path Loss)	16 dB	· 11 dB

Effective Four-Wire Transmission

(Two-wire interface at the End User's premises.)

,	Echo <u>Return Loss</u>	Singing Return Loss
Two-Wire Interface (Return Loss) Four-Wire Interface (Equal Level Echopping)	24 dB	18 dB 14 dB
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2 db pad is "in")

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(CP)ACCESS SERVICES

2nd Revised Sheet 33 Replacing 1st Revised Sheet 33

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)

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CANCELLED - Missouri Public Service Commission - 05/01/2024 - TN-2024-0278 - JI-2024-0140

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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.6 Wideband Data Service

A. Basic Channel Description

A Wideband Data channel is an analog channel for the transmission of synchronous serial data at the rate of 19.2, 50.0 or 230.4 kbps or of asynchronous serial data at rates of up to 19.2, 50.0 or 230.4 kbps. Optional arrangements are available for transmission of synchronous serial data at 18.75 or 40.8 kbps. The actual bit rate is a function of the channel interface selected by the customer. This service requires a 303 Data Station(s). The 303 Data Station provides coupling between the customer's business machine and the wideband data transmission medium. A voiceband coordinating channel is also provided. Wideband data channels are provided between customer designated premises.

B. Technical Specifications Packages

	<u>P</u> :	Package V				
Parameter	<u>1</u>	<u>2</u>	<u>3</u>			
Error-Free Seconds	X	X	X			

While in service, the monthly average of error-free seconds will be equal to or greater than 98.75 percent.

C. Channel Interfaces

The following channel interfaces (CI's) define the bit rates that are available for a Wideband Data channel:

<u>CI</u>	Bit Rate
WB-18S WB-19A WB-19S WB-23A WB-23S WB-40S WB-50A	18.75 kbps, synchronous up to 19.2 kbps, asynchronous 19.2 kbps, synchronous up to 230.4 kbps, asynchronous 230.4 kbps, synchronous 40.8 kbps, synchronous up to 50.0 kbps, asynchronous 50.0 kbps, synchronous
	· · · · · · · · · · · · · · · · · ·

Issued: June 27, 1986 Effective: July 1, 1986

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SPECIAL ACCESS SERVICE-(Continued)

- DEC 29 1203
- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)

Public Service Commission

- Voice Grade Services-(Continued)
 - Voice Grade 5 (VG5) Special Access Service-(Continued)
 - Transmission Performance-(Continued)
 - Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

	dard		Improved	RL
	5		ERL 20	
SRL	2.5	dΒ	SRL 13.5	dΒ

- Loss Variation

The long term loss variation from the nominal 1004 Hz EML shall not exceed +1.5 dB.

Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +5.0 dB with reference to the loss at 1004 Hz (minus equals less loss, plus equals more loss).

- Signal-to-C Notch Noise

The Signal-to-C Notch noise ratio shall not be less than 26 dB.

- Impulse Noise

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The number of United to be seen of 67 dBrnCO in 15 minutes shall be less than 15. Public Sam

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Southwestern Bell Telephone

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- 7. SPECIAL ACCESS SERVICE-(Continued)
 - 7.2 Service Descriptions-(Continued)

Company d/b/a AT&T Missouri

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ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.6 Wideband Data Service-(Continued)

Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

(AT) D. Optional Features, BSEs and Functions

Arrangement

1. Key Activated Transfer Arrangement

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

The following table shows the technical specifications packages with which the optional features, BSEs and functions are available. (AT)

> Available with Technical Specifications Package WD-1 2 3 Key Activated Transfer X X X

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CANCELLED October 1, 2021 Missouri Public Service Commission JI-2022-0045

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J. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

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7.2.6 Wideband Data Service-(Continued)

Public Service Commission

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Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

- D. Optional Features and Functions
 - 1. Key Activated Transfer Arrangement

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

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

Available with Technical Specifications Package WD- $\frac{1}{2} \qquad \qquad \frac{2}{3}$ Key Activated Transfer Arrangement X X X

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(CP)ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.6 Wideband Data Service-(Continued)

Compatible channel interfaces are set forth in Paragraph 7:3.5, F., following.

- D. Optional Features and Functions
 - 1. Key Activated Transfer Arrangement

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

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

Available with Technical Specifications Package WD-

<u>3</u>

Key Activated Transfer Arrangement

X

X

X

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SPECIAL ACCESS SERVICE-(Continued)

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- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)

1 Public Service Commission

- B. Voice Grade Services-(Continued)
 - Voice Grade 5 (VG5) Special Access Service-(Continued)
 - e. Available Facility Interface Combinations

VG5 is available only with specific facility interface combinations as set forth in Paragraph 7.2.1, B., 14, following.

- 6. Voice Grade 6 (VG6) Special Access Service
 - a. Description

Special Access Service VG6 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an End User's premises. The transmission interface is fourwire at both the IC terminal location and the End User's premises. This service will support effective four-wire transmission.

b. Illustrative Applications

Special Access Service VG6 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Private Line Data Circuit
- Control/Remote Metering

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Effective: JAN 0 1 1984

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Company d/b/a AT&T Missouri

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data(1) Service

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A. Basic Channel Description

A MegaLink Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 4.8, 9.6, 19.2, 56.0 kbps or 64 kbps Clear Channel (CC)*. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. MegaLink Data channels are provided between customer-designated premises for two-point service at all speeds or between a customer - designated premises and a Telephone Company digital hub for multipoint or multiplexed service at all speeds except 64 kbps (CC).

(RT)

It is the responsibility of the customer to provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the MegaLink Data Channel at the customer premises.

B. Technical Specifications Packages

	<u>!</u>	Package DA-					
Parameter	<u>1</u>	<u>2</u>	<u>3</u> <u>4</u>	<u>5</u>	<u>6</u>		
Error-Free Seconds	X	Χ	хх	Χ	Х		

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875 percent error-free seconds (if provided through a Digital Data Hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in the appropriate technical reference listed in Paragraph 7.2, preceding.

Voltages which are compatible with MegaLink Data Service are delineated in the appropriate technical reference listed in Paragraph 7.2, preceding.

*64 kbps Clear Channel (CC) is offered only where equipment and facilities are available.

(1) Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(AT)

(AT)

Effective: June 30, 2021 Issued: May 28, 2021

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service

A. Basic Channel Description

A MegaLink Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56.0 kbps or 64 kbps Clear Channel (CC)*. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. MegaLink Data channels are provided between customer-designated premises for two-point service at all speeds or between a customer - designated premises and a Telephone Company digital hub for multipoint or multiplexed service at all speeds except 64 kbps (CC).

It is the responsibility of the customer to provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the MegaLink Data Channel at the customer premises.

Package DA-

(RT)

B. Technical Specifications Packages

	_					
Parameter	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Error-Free Seconds	Χ	Х	Χ	Х	Х	Χ

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875 percent error-free seconds (if provided through a Digital Data Hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in the appropriate technical reference listed in Paragraph 7.2, preceding.

Voltages which are compatible with MegaLink Data Service are delineated in the appropriate technical reference listed in Paragraph 7.2, preceding.

*64 kbps Clear Channel (CC) is offered only where equipment and facilities are available.

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CANCELLED
June 30, 2021
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By DAVID NICHOLS, President - Missouri St. Louis, Missouri Filed
Missouri Public
Service Commission
JI-2009-0676

Effective: April 19, 2009

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Replacing 6th Revised Sheet 35

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
 - 7.2 Service Descriptions-(Continued)
 - 7.2.7 MegaLink Data Service
 - A. Basic Channel Description

A MegaLink Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56.0 kbps or 64 kbps Clear Channel (CC)*. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. MegaLink Data channels are provided between customer-designated premises for two-point service at all speeds or between a customer - designated premises and a Telephone Company digital hub for multipoint or multiplexed service at all speeds except 64 kbps (CC).

It is the responsibility of the customer to provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the MegaLink Data Channel at the customer premises.

Doolsogo DA

(CT) This service is classified as competitive.

B. Technical Specifications Packages

	I ackage DA-					
Parameter	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Error-Free Seconds	X	X	X	X	X	X

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875 percent error-free seconds (if provided through a Digital Data Hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in the appropriate technical reference listed in Paragraph 7.2, preceding.

Voltages which are compatible with MegaLink Data Service are delineated in the appropriate technical reference listed in Paragraph 7.2, preceding.

*64 kbps Clear Channel (CC) is offered only where equipment and facilities are available.

Issued: February 20, 2002 Effective: March 29, 2002

By JAN NEWTON, President-Missouri Southwestern Bell Telephone, L.P., d/b/a Southwestern Bell Telephone Company St. Louis, Missouri

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April 19, 2009
Missouri Public
Service Commission
JI-2009-0676

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7. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

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7.2.7 MegaLink Data Service

A. Basic Channel Description Public Service Commission

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A MegaLink Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56.0 kbps or 64 kbps Clear Channel (CC)*. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. MegaLink Data channels are provided between customer-designated premises for two-point service at all speeds or between a customer-designated premises and a Telephone Company digital hub for multipoint or multiplexed service at all speeds except 64 kbps (CC).

It is the responsibility of the customer to provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the MegaLink Data Channel at the customer premises.

This service was classified as transitionally competitive efective January 10, 1993.

B. Technical Specifications Packages

Package DA-

(AT) Parameter

<u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>5</u> <u>6</u>

(AT) Error-Free Seconds

x x x x x x

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875 percent error-free seconds (if provided through a Digital Data Hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in the appropriate technical reference listed in Paragraph 7.2, preceding.

Voltages which are compatible with MegaLink Data Service are delineated in the appropriate technical reference listed in Paragraph 7.2, preceding.

(AT) *64 kbps Clear Channel (CC) is offered only where equipment and facilities are (AT) available.

Issued: JAN 0 9 1995

Effective:

EB 0 9 1915

By HORACE WILKINS, JR., President-Missouri Southwestern Bell Telephone St. Louis, Missouri

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SPECIAL ACCESS SERVICE-(Continued)

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- 7.2 Service Descriptions-(Continued)
 - 7.2.7 MegaLink Data Service

MISSOURI Public Service Commission

A. Basic Channel Description

A MegaLink Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6 or 56.0 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. MegaLink Data channels are provided between customer-designated premises for two-point service or between a customer-designated premises and a Telephone Company digital hub for multipoint or multiplexed service.

It is the responsibility of the customer to provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the MegaLink Data Channel at the customer premises.

This service was classified as transitionally competitive efective CANCELLED

B. Technical Specifications Packages

Parameter

Parameter

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The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875 percent error-free seconds (if provided through a Digital Data Hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in the appropriate technical reference listed in Paragraph 7.2, preceding.

Voltages which are compatible with MegaLink Data Service are delineated in the appropriate technical reference listed in Paragraph 7.2, preceding.

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Effective: JAN 1 0 1993

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By A. D. ROBERTSON, Assistant Vice President-External Affairs

Southwestern Bell Telephone Company
St. Louis, Missouri

JAN 10 1993

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7.2 Service Descriptions-(Continued)

MISSOURI Public Service Commission

7.2.7 MegaLink Data Service

A. Basic Channel Description

A MegaLink Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6 or 56.0 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. MegaLink Data channels are provided between customer-designated premises for two-point service or between a customer-designated premises and a Telephone Company digital hub

for multipoint or multiplexed service.

It is the responsibility of the customer to provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the MegaLink Data Channel at the customer premises. JAN 101993 12 P. S. # 3.5

(RT) (RT)

B. Technical Specifications Packages

Package DA-Parameter 1 Error-Free Seconds X

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875 percent error-free seconds (if provided through a Digital Data Hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in the appropriate technical reference listed in Paragraph 7.2, preceding.

(CT) (CT)

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Voltages which are compatible with MegaLink Data Service are delineated in the appropriate technical reference listed in Paragraph 7.2, preceding.

Issued: AUG 0 9 1991

Effective: SEP 3 0 1991

Access Services Tariff
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Replacing 2nd Revised Sheet 35

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

SEP 25 1989

(CT) 7.2.7 MegaLink Data Service

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Public Service Commission

A. Basic Channel Description

A MegaLink Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6 or 56.0 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. MegaLink Data channels are provided between customer designated premises for two point service or between a customer designated premises and a Telephone Company digital hub

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

B. Technical Specifications Packages

for multipoint or multiplexed service.

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Public Service Commission
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Error-Free Seconds

Parameter

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

Voltages which are compatible with MegaLink Data Service are delineated in Technical Reference PUB 62507.

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Effective:

OCT 1: 1989 OCT 1

By R. D. BARRON, President-Missouri Division 89-14

Southwestern Bell Telephone Company Public Service Commission

St. Louis, Missouri

Access Services Tariff Section 7 2nd Revised Sheet 35 Replacing 1st Revised Sheet 35

ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

JUN 22 1988

7.2 Service Descriptions-(Continued)

7.2.7 Digital Data Service

MISSOURI **Public Service Commission**

A. Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6 or 56.0 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are only available via Telephone Company designated Hubs and are provided between customer-designated premises or between a customer-designated premises and a Telephone Company Hub.

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

Technical Specifications Packages ELLED

	1 1989	Pack	age DA-	
	06 2 6 #35			
Parameter	BONG STORING COmmission	۱ <u>2</u>	<u>3</u>	4
Error-Free Seconds	MISSOURI X	X	X	X

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

Voltages which are compatible with Digital Data Service are delineated in Technical Reference PUB 62507.

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(CP)ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.7 Digital Data Service
- A. Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6 or 56.0 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are only available via Telephone Company designated Hubs and are provided between customer-designated premises or between a customer-designated premises and a Telephone Company Hub.

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

B. Technical Specifications Packages

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

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

Voltages which are compatible with Digital Data Service are delineated in Technical Reference PUB 62507.

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ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

DEC 29 1883

- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)

Public Service Commission

- B. Voice Grade Services-(Continued)
 - 6. Voice Grade 6 (VG6) Special Access Service-(Continued)
 - Optional Features
 - C-Conditioning
 - DA-Conditioning.
 - Central office bridging capability.
 - Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.
 - Central Office Multiplexing
 - Transmission Performance
 - C-Message Noise

The C-Message Noise shall be less than:

	Limit (dBrnCO)(1)			
Channel Mileage (mi)	Type Vl	Type V2		
0 - 50	32	38		
51 - 100	33	39		
101 - 200	35	41		
201 - 400	37	43		
401 - 1000	39	45		

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(1) Where facility network conditions will support the parameters, Type VI will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

P.S.C. Mo. - No. 36 ACCESS SERVICES TARIFF

Southwestern Bell Telephone Company d/b/a AT&T Missouri Section 7 7th Revised Sheet 36 Replacing 6th Revised Sheet 36

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.7 MegaLink Data(1) Service-(Continued)

(CP)

C. Channel Interfaces

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

<u>CI</u>	<u>Bit Rate</u>	
		(RT)
DU-48	4.8 kbps	()
DU-96	9.6 kbps	
DU-19	19.2 kbps	
DU-56	56.0 kbps	
DU-64	64.0 kbps (CC)*	

Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

D. Service to Service Through Connect Arrangement

This provides the interconnection of two subtending digital data channels derived from DS1 multiplexed services. The through connect will be provisioned in lieu of a typical MegaLink Data channel termination. The through connect will be provisioned for all MegaLink Data speeds; 4.8, 9.6, 19.2, 56 kbps and 64 (RT) kbps (CC). The ordering customer must provide channel assignments for both. Channel mileage is required if the multiplexed services are terminated in two separate digital Hubs.

- E. Optional Features, BSEs and Functions
 - I. Central Office Bridging BSE Capability
 - 2. Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a lxN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company-designated Hub. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as a part of the option.

*MegaLink Data Service 64 kbps channel interface is offered only with Clear Channel.

(1) Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

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Issued: May 28, 2021 Effective: June 30, 2021

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Replacing 5th Revised Sheet 36

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
 - 7.2 Service Descriptions-(Continued)
 - 7.2.7 MegaLink Data Service-(Continued)
 - C. Channel Interfaces

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

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

Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

D. Service to Service Through Connect Arrangement

This provides the interconnection of two subtending digital data channels derived from DS1 multiplexed services. The through connect will be provisioned in lieu of a typical MegaLink Data channel termination. The through connect will be provisioned for all MegaLink Data speeds; 2.4, 4.8, 9.6, 19.2, 56 kbps and 64 kbps (CC). The ordering customer must provide channel assignments for both. Channel mileage is required if the multiplexed services are terminated in two separate digital Hubs.

- E. Optional Features, BSEs and Functions
 - 1. Central Office Bridging BSE Capability
 - 2. Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a lxN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company-designated Hub. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as a part of the option.

(AT) *MegaLink Data Service 64 kbps channel interface is offered only with Clear Channel.

Issued: January 9, 1995

Effective:

February 9, 1995

CANCELLED
June 30, 2021
Missouri Public
Service Commission
JI-2021-0210

(AT)

By HORACE WILKINS, JR., President-Missouri Southwestern Bell Telephone St. Louis, Missouri

Access Services Tariff Section 7 5th Revised Sheet 36 Replacing 4th Revised Sheet 36

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

MAR 29 1993

7.2.7 MegaLink Data Service-(Continued)

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C. Channel Interfaces

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

CI	Bit Rate
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-96	9.6 kbps
DU-56	56.0 kbps

Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

Service to Service Through Connect Arrangement

This provides the interconnection of two subtending digital data channels derived from DS1 multiplexed services. The through connect will be provisioned in lieu of a typical MegaLink Data channel termination. The through connect will be provisioned for all MegaLink Data speeds; 2.4, 4.8, 9.6 and 56 kbps. The ordering customer must provide channel assignments for both. Channel mileage is required if the multiplexed services are terminated in two separate digital Hubs. CANCELLED

(AT) Optional Features, BSEs and Functions

Central Office Bridging BSE Capability (AT)

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Transfer Arrangement

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An arrangement that affords the customer an additional measure of on a lxN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company-designated Hub. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as a part of the option.

Issued: -

MAR 2 6 1993

Effective:

APR 1 FINED

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

APR 11 1993 92 - 304

Access Services Tariff Section 7 4th Revised Sheet 36 Replacing 3rd Revised Sheet 36

ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

FEB 2 0 1990

7.2 Service Descriptions-(Continued)

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Public Service Commission

7.2.7 MegaLink Data Service-(Continued)

C. Channel Interfaces

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

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

Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

D. Service to Service Through Connect Arrangement

This provides the interconnection of two subtending digital data channels derived from DS1 multiplexed services. The through connect will be provisioned in lieu of a typical MegaLink Data channel termination. The through connect will be provisioned for all MegaLink Data speeds; 2.4, 4.8, 9.6 and 56 kbps. The ordering customer must provide channel assignments for both. Channel mileage is required if the multiplexed services are terminated in two separate digital Hubs.

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Optional Features and Functions

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- 1. Central Office Bridging Capability
- 2. Transfer Arrangement

An arrangement that affords the customer an additional measure possibility in the use of their access channelles on a lxN basis. The arrangement of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company-designated Hub. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as a part of the option.

Issued: FEB 2 2 1990

Bffective: MAR 2 6 1990

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By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

MAR 26 1990

Access Services Tariff Section 7 3rd Revised Sheet 36 Replacing 2nd Revised Sheet 36

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

SEP 25 1989

(CT) 7.2.7 MegaLink Data Service-(Continued) MIESSELT!

Public Service Commission

C. Channel Interfaces

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

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

(CT) Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

- D. Optional Features and Functions
 - 1. Central Office Bridging Capability
 - 2. Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a lxN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company-designated Hub. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as a part of the option.

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Issued: SEP 2 5 1989

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Replacing 1st Revised Sheet 36

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

SEP 17 1987

7.2.7 Digital Data Service-(Continued)

MISSOURI
Public Service Commission

C. Channel Interfaces

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

CI	<u>Bit Rate</u>	1089
DU-24	2.4 kbps	OCT 1 1989 By 328 8 S. #36
DU-48	4.8 kbps	BY Seriesion
DU-96	9.6 kbps	Public Service Ceramission
DU-56	56.0 kbps	MISSOURI

Compatible channel interfaces are set forth in Paragraph 7.3.5, G., following.

- D. Optional Features and Functions
 - 1. Central Office Bridging Capability
 - 2. Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a lxN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company-designated Hub. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as a part of the option.

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Issued: SEP 18 1987

Effective: OCT 19 1987

FILED

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

OCT 19 1987

(CP)ACCESS SERVICES

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JUN 27 1986

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Public Service Commission

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
 - 7.2.7 Digital Data Service-(Continued)
 - C. Channel Interfaces

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

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

Compatible channel interfaces are set forth in Paragraph 3.5, G., following.

D. Optional Features and Functions

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1. Central Office Bridging Capability

Public Service Commission

2. Transfer Arrangement

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An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a lxN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company-designated Hub. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as a part of the option.

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

Available with Technical Specifications Package DA-

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Effective:

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Access Services Tariff Section 7 Original Sheet 36

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ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

DEC 29 1203

- 7.2 Technical Service Descriptions for Special Access Service (Continued) **Public Service Commission**
 - 7.2.1 Analog Services-(Continued)
 - Voice Grade Services-(Continued)
 - 6. Voice Grade 6 (VG6) Special Access Service-(Continued)
 - Transmission Performance-(Continued)
 - Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

Stan	dard	RL	Imp	roved	RL
ERL	5	dB	ERL	20	dB
SRL	2.5	dΒ	SRL	13.5	dΒ

- Loss Variation

The long term loss variation from the nominal 1004 Hz EML shall not exceed +1.5 dB.

- Attenuation Distortions

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +4.0 dB with reference to the loss at 1004 Hz (minus equals less loss, plus equals more loss). The attenuation distortion between 504 Hz and 2504 Hz shall be within -1.0 dB and +3.0 dB with reference to the loss at 1004 Hz. The attenuation distortion between 304 Hz and 3004 Hz shall be within -1.0 dB and +5.0 dB.

- Signal-to-C Notch Noise

.The Signal-to-C Notch noise ratio shall not be less than 30 dB.

- Envelope Delay Distortion

The Envelope Delay Distortion (EDD) shall not exceed 150 700 microseconds between 800 and 2600 Hz.

PUBLIC SERVICE COMMISSION - Impulse Noise

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The number of impulse noise counts exceeding a thresholding and solding and so of 67 dBrnCO in 15 minutes shall be less than 15.

DEC 2 9 1983 Issued:

JAN 0 1 1984 Effective:

P.S.C. Mo. - No. 36 ACCESS SERVICES TARIFF

Section 7 5th Revised Sheet 36.1 Replacing 4th Revised Sheet 36.1

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.7 MegaLink Data(1) Service-(Continued)

(CP)

- E. Optional Features, BSEs and Functions (Continued)
 - 3. Secondary Channel Capability BSE

Secondary Channel capability provides for an additional low-speed digital transmission channel within the existing 4.8, 9.6, 19.2 and 56.0 kbps primary channels. It is available as a point-to-point or a multipoint service utilizing a nonrepeated channel termination. The Secondary Channel can be used as a communications channel for the controlling and monitoring of a customer's network.

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

	Available with Technical Specifications Package DA-					
	<u>l</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Central Office Bridging Capability Transfer Arrangement Secondary Channel				X X	X X	Х
Capability	X	Χ	Χ	Χ	Χ	

(1) Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

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Effective: June 30, 2021

Issued: May 28, 2021

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ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.7 MegaLink Data Service-(Continued)
- E. Optional Features, BSEs and Functions (Continued)
 - 3. Secondary Channel Capability BSE
- Secondary Channel capability provides for an additional low-speed digital transmission channel within the existing 2.4, 4.8, 9.6, 19.2 and 56.0 kbps primary channels. It is available as a point-to-point or a multipoint service utilizing a nonrepeated channel termination. The Secondary Channel can be used as a communications channel for the controlling and monitoring of a customer's network.

Available with Technical

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

					Package DA-		
(AT)		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
	Central Office Bridging						
ļ	Capability				X		
	Transfer Arrangement Secondary Channel	X	X	X	X	X	X
(AT)	Capability	X	X	X	X	X	

Issued: January 9, 1995 Effective: February 9, 1995

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ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)

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7.2.7 MegaLink Data Service-(Continued)

MAR 29 1993

(AT) E. Optional Features, BSEs and Functions (Continued)

MISSOURI Public Service Commission

(AT) 3. Secondary Channel Capability BSE

Secondary Channel capability provides for an additional low-speed digital transmission channel within the existing 2.4, 4.8, 9.6, and 56.0 kbps primary channels. It is available as a point-to-point or a multipoint service utilizing a nonrepeated channel termination. The Secondary Channel can be used as a communications channel for the controlling and monitoring of a customer's network.

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

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

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FEB 9-1995

BY 4TH R.S. # 36.01

Public Service Commission

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Issued: MAR 2 6 1993

Effective:

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SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

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7.2.7 MegaLink Data Service-(Continued)

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B. Optional Features and Functions (Continued)

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3. Secondary Channel Capability

Secondary Channel capability provides for an additional low-speed digits transmission channel within the existing 2.4, 4.8, 9.6, and 56.0 kbps primary channels. It is available as a point-to-point or a multipoint service utilizing a nonrepeated channel termination. The Secondary Channel can be used as a communications channel for the controlling and monitoring of a customer's network.

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

	Available with Technical			
	Specifications Package D			e DA-
	1	2	3	4
Central Office Bridging				
Capability	X	X	X	X
Transfer Arrangement Secondary Channel	X	X	X	X
Capability	X	X	X	X

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Effective: MAR 2 6 1990

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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- 7.2 Service Descriptions-(Continued)
- 7.2.7 MegaLink Data Service-(Continued)

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- D. Optional Features and Functions (Continued)
 - 3. Secondary Channel Capability

Secondary Channel capability provides for an additional low-speed digital transmission channel within the existing 2.4, 4.8, 9.6, and 56.0 kbps primary channels. It is available as a point-to-point or a multipoint service utilizing a nonrepeated channel termination. The Secondary Channel can be used as a communications channel for the controlling and monitoring of a customer's network.

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

	Available with Specifications			
	1	2	3	4
Central Office Bridging				
Capability	X	X	X	X
Transfer Arrangement	X	X	Х	X
Secondary Channel				
Capability	X	X	X	X

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Issued: SEP 2 5 (S39)

Effective:

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Access Services Tariff Section 7 Original Sheet 36.01

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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SEP 17 1987

- 7.2 Service Descriptions-(Continued)
 - 7.2.7 Digital Data Service-(Continued)

MISSOURI **Public Service Commission**

- Optional Features and Functions (Continued)
- (NR) Secondary Channel Capability

Secondary Channel capability provides for an additional low-speed digital transmission channel within the existing 2.4, 4.8, 9.6, and 56.0 kbps primary channels. It is available as a point-to-point or a multipoint service utilizing a nonrepeated channel termination. The Secondary Channel can be used as a communications channel for the controlling and monitoring of a customer's network.

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

	Availa	ble vith	Technica	al
	Specif	ications	Package DA-	
	<u>1</u>	<u>2</u>	3	4
Central Office Bridging				
Capability	X	X	X	X
Transfer Arrangement Secondary Channel	Х	Х	Х	X
Capability	X	X	X	X

CANCELLED MISSOURI

Issued:

(NR)

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SEP 18 1987

Effective:

FILED

OCT 19 1987

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

Public Service Commission

Southwestern Bell Telephone Company, LLC d/b/a AT&T Missouri

Section 7 14th Revised Sheet 37 Replacing 13th Revised Sheet 37

FILED - Missouri Public Service Commission - 05/01/2024 - TN-2024-0278 - JI-2024-0140

ACCESS SERVICES

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (cont'd)

7.2.8 High Capacity Service

A. Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 Kbps(1)(2) or 1.544 or 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided (a) between customer designated premises, (b) between a customer designated premises and a Telephone Company Hub, (c) Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission or (d) between a Network Reconfiguration Service Hub and a Telephone Company Hub at 1.544 Mbps transmission.

It is the responsibility of the customer to provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program, for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

B. Technical Specifications Packages

_	ſ	Package HC	;_	
<u>Parameters</u>	<u>0</u>	<u>1</u>	<u>3</u>	
Error-Free Seconds		Χ		

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical References set forth at the end of Paragraph 7.2.

- (1) Available only as a channel of a 1.544 Mbps facility between two Telephone Company designated Hubs. The customer must provide system and channel assignment data.
- (2) Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

ACCESS SERVICES

SPECIAL ACCESS SERVICE

7.2 Service Descriptions (cont'd)

7.2.8 High Capacity Service

A. Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 Kbps(1)(2) or 1.544 or 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided (a) between customer designated premises, (b) between a customer designated premises and a Telephone Company Hub, (c) Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission or (d) between a Network Reconfiguration Service Hub and a Telephone Company Hub at 1.544 Mbps transmission.

It is the responsibility of the customer to provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program, for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

B. Technical Specifications Packages

Issued: May 28, 2021

_	Package HC-			
<u>Parameters</u>	<u>0</u>	<u>1</u>	<u>3</u>	
Error-Free Seconds		Х		

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical References set forth at the end of Paragraph 7.2.

(1) Available only as a channel of a 1.544 Mbps facility between two Telephone Company designated Hubs. The customer must provide system and channel assignment data.

(2) Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

(AT)

(CP)

Effective: June 30, 2021

P.S.C. Mo. - No. 36 ACCESS SERVICES TARIFF

Southwestern Bell Telephone Company d/b/a AT&T Missouri Section 7 12th Revised Sheet 37 Replacing 11th Revised Sheet 37

ACCESS SERVICES

- SPECIAL ACCESS SERVICE
 - 7.2 Service Descriptions (cont'd)
 - 7.2.8 High Capacity Service
 - A. Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 Kbps(1) or 1.544 or 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided (a) between customer designated premises, (b) between a customer designated premises and a Telephone Company Hub, (c) Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission or (d) between a Network Reconfiguration Service Hub and a Telephone Company Hub at 1.544 Mbps transmission.

It is the responsibility of the customer to provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program, for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

(RT)

B. Technical Specifications Packages

_		Package HC	:-	
<u>Parameters</u>	<u>0</u>	<u>1</u>	<u>3</u>	
Error-Free Seconds		Х		

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical References set forth at the end of Paragraph 7.2.

(1) Available only as a channel of a 1.544 Mbps facility between two Telephone Company designated Hubs. The customer must provide system and channel assignment data.

Issued: March 20, 2009

Access Services Tariff
Section 7
11th Revised Sheet 37
Replacing 10th Revised Sheet 37

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE

- 7.2 Service Descriptions (cont'd)
 - 7.2.8 High Capacity Service
 - A. Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 Kbps(1) or 1.544 or 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided (a) between customer designated premises, (b) between a customer designated premises and a Telephone Company Hub, (c) Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission or (d) between a Network Reconfiguration Service Hub and a Telephone Company Hub at 1.544 Mbps transmission.

(RT)(FC)

It is the responsibility of the customer to provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program, for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

High Capacity Service is classified as competitive.

B. Technical Specifications Packages

		Package HC	:-	
<u>Parameters</u>	<u>0</u>	<u>1</u>	<u>3</u>	
Error-Free Seconds		X		

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical References set forth at the end of Paragraph 7.2.

(1) Available only as a channel of a 1.544 Mbps facility between two Telephone Company designated Hubs. The customer must provide system and channel assignment data.

Issued: January 3, 2003 Effective: February 2, 2003

By CINDY BRINKLEY, President-Missouri Southwestern Bell Telephone, L.P., d/b/a SBC Missouri St. Louis, Missouri

Cancelled April 19, 2009 Missouri Public Service Commission JI-2009-0676

Access Services Tariff
Section 7
10th Revised Sheet 37
Replacing 9th Revised Sheet 37

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

Missouri Public

7.2 Service Descriptions-(Continued)

REC'D FEB 2 0 2002

7.2.8 High Capacity Service

Service Commission

A. Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps(1) or 1.544 or 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided (a) between customer designated premises, (b) between a customer designated premises and a Telephone Company Hub, (c) Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission, (d) between Transport Resource Management Service Hubs at 1.544 Mbps transmission, (e) between a Transport Resource Management Service Hub and a Telephone Company Hub at 1.544 Mbps transmission, (f) between a Network Reconfiguration Service Hub and a Transport Resource Management Service Hub at 1.544 Mbps transmission, or (g) between a Network Reconfiguration Service Hub and a Telephone Company Hub at 1.544 Mbps transmission.

It is the responsibility of the customer to provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program, for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

High Capacity Service is classified as competitive.

CANCELLED

B. Technical Specifications Packages

Package HC-

Parameters

Error-Free Seconds

X

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical References set forth at the end of Paragraph 7.2.

(1) Available only as a channel of a 1.544 Mbps facility between two Telephone Company designated Hubs. The customer must provide system and channel assignment data.

Issued: February 20, 2002

Effective: March 22; 2002

By JAN NEWTON, President-Missouri

Southwestern Bell Telephone, L.P., d/b/a Southwestern Bell Telephone Company

St. Louis, Missouri

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Service Commission

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Access Services Tariff
Section 7
9th Revised Sheet 37
Replacing 8th Revised Sheet 37

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

CANCELLED

7.2 Service Descriptions-(Continued)

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AUG 26 1994

7.2.8 High Capacity Service

Public Service Commission MISSOURI

A. Basic Channel Description

MO. PUBLIC SERVICE COMM.

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps(1) or 1.544 or 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided (a) between customer designated premises, (b) between a customer designated premises and a Telephone Company Hub, (c) Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission, (d) between Transport Resource Management Service Hubs at 1.544 Mbps transmission, (e) between a Transport Resource Management Service Hub and a Telephone Company Hub at 1.544 Mbps transmission, (f) between a Network Reconfiguration Service Hub and a Transport Resource Management Service Hub at 1.544 Mbps transmission, or (g) between a Network Reconfiguration Service Hub and a Telephone Comapny Hub at 1.544 Mbps transmission.

It is the responsibility of the customer to provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program, for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

High Capacity Service was classified as transitionally competitive effective January 10, 1993.

B. Technical Specifications Packages

<u>Package HC-</u> <u>0</u> <u>1</u> <u>3</u>

Error-Free Seconds

Parameters

X

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical References set forth at the end of Paragraph 7.2.

(1) Available only as a channel of a 1.544 Mbps facility between two Telephone Company designated Hubs. The customer must provide system and channel assignment data.

Issued: AUG 2 6 1994

Effective: SEP 2 R 1992EP 26 1994

By M. H. SCHULTEIS, Executive Director-External Affairs
Southwestern Bell Telephone

St. Louis, Missouri

MISSOURI Public Service Commission

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Access Services Tariff Section 7 8th Revised Sheet 37 Replacing 7th Revised Sheet 37

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

AUG 25 1993

7.2.8 High Capacity Service

MISSOURI Public Service Commission

A. Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps(1) or 1.544 or 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub, or Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission.

It is the responsibility of the customer to provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program, for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

High Capacity Service was classified as transitionally competitive effective January 10, 1993.

Technical Specifications Packages

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Package HC-

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Parameters

Error-Free Seconds

Public Service Commission MISSOURI

A channel with technical specifications package HCl will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical References set forth at the end of Paragraph 7.2.

(1) Available only as a channel of a 1.544 Mbps facility between two Telephone Company designated Hubs. The customer must provide system and channel assignment data.

AUG 2 7 1993 Issued:

Effective: SEP 2 7 1993

By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company St. Louis, Missouri

Access Services Tariff
Section 7
7th Revised Sheet 37
Replacing 6th Revised Sheet 37

ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
 - 7.2.8 High Capacity Service
 - A. Basic Channel Description

250155 Public Barvics Commission

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps(1) or 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub, or Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission.

It is the responsibility of the customer to provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program, for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

High Capacity Service was classified as transitionally competitive effective January 10, 1993.

B. Technical Specifications Packages

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Package HC 25 Ch Commission

1 1C BY 25 Ch Commission

Public Service Commission
MISSOURI

Parameters

Error-Free Seconds

Χ

A channel with technical specifications package BC1 will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical References set forth at the end of Paragraph 7.2.

(1) Available only as a channel of a 1.544 Mbps facility between two Telephone Company designated Hubs. The customer must provide system and channel assignment data.

Issued: **QCT 01** 1992

Effective: 1

JAN 1 0 1993

By A. D. ROBERTSON, Assistant Vice President-External Affairs 1993
Southwestern Bell Telephone Company
St. Louis, Missouri

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Access Services Tariff
Section 7
6th Revised Sheet 37
Replacing 5th Revised Sheet 37

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

AUG 9 1921

7.2.8 High Capacity Service

MISSOURI Public Service Commission

A. Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps(1) or 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub, or Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission.

It is the responsibility of the customer to provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises.

(RT)

B. Technical Specifications Packages

		Package	HC-		
0	1	1 <u>c</u>	2	3	4

Parameters

Error-Free Seconds

X

A channel with technical specifications package HCl will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical References set forth at the end of Paragraph 7.2.

CANCELLED

JAN 101993 BY 74RS. #37

(1) Available only as a channel of a 1.544 Mbps facility between two Telephone Company designated Hubs. The customer must provide system and channel assignment data.

Issued: AUG 0 9 1991

Effective:

FILED

SEP 3 0 1991

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

Tublic Service Commission

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Access Services Tariff
Section 7
5th Revised Sheet 37
Replacing 4th Revised Sheet 37

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

MAY 29 1991

7.2.8 High Capacity Service

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Public Service Commission

A. Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps(1) or 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub, or Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission.

It is the responsibility of the customer to provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program, for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

B. Technical Specifications Packages

Package HC
O 1 1C SEP 3 0 1991
BY GR R.S. 37

Public Service Commission

MISSOURI

Error-Free Seconds

Parameters

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical References set forth at the end of Paragraph 7.2.

(1) Available only as a channel of a 1.544 Mbps facility between two Telephone Company designated Hubs. The customer must provide system and channel assignment data.

Issued: JUN 0 4 1991

Effective: AUG 0 5 1991

FILED

AUG 5

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

Lublic Service Commission

Access Services Tariff Section 7 4th Revised Sheet 37 Replacing 3rd Revised Sheet 37

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

FEB 20 1990

7.2.8 High Capacity Service

MISSOURI **Public Service Commission**

A. Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps(1) or 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

It is the responsibility of the customer to provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program, for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

B. Technical Specifications Packages

Package HC-0 1 10 2

Parameters

Error-Free Seconds

X

A channel with technical specifications package HCl will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical References set forth at the end of Paragraph 7.2.

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CANCELLED

AUG 2 1991 BY STARS # 37

(1) Available only as a channel of a 1.544 Mbps facility betwell for viete from enjesion Company designated hubs. The customer must provide system and MARGELIAI assignment data.

Issued: FEB 2 2 1990

Bffective: MAR 2 6 1990

FILED

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis. Missouri

MAR 26 1990

Access Services Tariff
Section 7
3rd Revised Sheet 37
Replacing 2nd Revised Sheet 37

ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

SEP 25 1989

7.2 Service Descriptions-(Continued)

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7.2.8 High Capacity Service

MISSOURI
Public Service Commission

A. Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps(1) or 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

It is the responsibility of the customer to provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program, for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

B. Technical Specifications Packages

 Package HC

 0
 1
 1C
 2
 3
 4

Parameters

Error-Free Seconds

X

A channel with technical specifications package HCl will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical Reference PUB 62411 CELLED

MAR 26 1990
BY 44 1 5 #31
Sublic Service Commission
MISSOURI

(1) Available only as a channel of a 1.544 Mbps facility between two Telephone (CT) Company designated Hubs or as a cross connect of two 2.4, 4.8, 9.6, 56.0 (CT) or 64.0 kbps channels or two 1.544 Mbps facilities to a designated Hub(s). The customer must provide system and channel assignment data.

Issued: 0EP 2 5 1989

Effective:

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Access Services Tariff Section 7 2nd Revised Sheet 37 Replacing 1st Revised Sheet 37

ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

JUN 22 1988

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service

MISSOURI Public Service Commission

A. Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps (1) or 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

(CP) It is the responsibility of the customer to provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program, for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

Technical Specifications Packages

Package HC-10 2 3 4 Error-Free Seconds NAISSOURI X

A channel with technical specifications package HCl will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical Reference PUB 62411.

(1) Available only as a channel of a 1.544 Mbps facility between two Telephone Company Digital Data Hubs or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 kbps channels or two 1.544 Mbps facilities to a Digital Data Hub(s). The customer must provide system and channel assignment data.

Issued:

Effective:

FILED

JUL 8 1988

JUN 2 2 1988
By R. D. BARRON, President-Missouri Division
Poll Telephone Company

St. Louis, Missouri

Access Services Tariff Replacing Original Sheet 37

(CP)ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
 - 7.2.8 High Capacity Service
 - A. Basic Channel Description

Section 7 1st Revised Sheet 37

JUN 27 1986

あり2200K Public Service Commission

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps(1) or 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

The customer may provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

Technical Specifications Packages

		Package HC-				
Parameters	<u>0</u>	· <u>1</u>	<u>1C</u>	2	<u>3</u>	4
		**				
Error-Free Seconds		Ä				

A channel with technical specifications package HCl will be capable of an error-free second performance of 98.75 percent over a continuous 24hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technique Reference PUB 62411.

(1) Available only as a channeluble a labora Mbps facility between two Telen phone Company Digital Data Hubs or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 kbps channels or two 1.544 Mbps facilities to a Digital Data Hub(s). The customer must provide system and channel assignment 86-84

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Issued:

JUN 27 1986

Effective:

1 1986 JUL

Access Services Tariff Section 7 nOriginal Sheet, 37

ACCESS SERVICES

DEC 25 1993

- SPECIAL ACCESS SERVICE-(Continued)
 - 7.2 Technical Service Descriptions for Special Access Service (Continued
 - 7.2.1 Analog Services-(Continued)
 - Voice Grade Services-(Continued)
 - Voice Grade 6 (VG6) Special Access Service-(Continued)
 - d. Transmission Performance-(Continued)
 - Intermodulation Distortion

The intermodulation distortion based upon the four-tone method shall be such that R2 is not less than 33 dB and R3 not less than 40 dB.

- Phase Jitter

The phase jitter over 20-300 Hz shall not exceed 5° peak-to-peak and over 4-300 Hz shall not exceed 10 peak-to-peak.

- Frequency Shift

The frequency shift shall not exceed +1 Hz.

e. Available Facility Interface Combinations

VG6 is available only with specific facility interface combinations as set forth in Paragraph 7.2.1, B., 14., following.

- 7. Voice Grade 7 (VG7) Special Access Service
 - a. Description

Special Access Service VG7 provides a channel for voiceband premises. The transmission interface at the End User's premises

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Issued: DEC 2 9 1983 Effective: JAN 0 1 1984

P.S.C. Mo. - No. 36 ACCESS SERVICES TARIFF

Southwestern Bell Telephone Company, LLC d/b/a AT&T Missouri Section 7 8th Revised Sheet 38 Replacing 7th Revised Sheet 38

FILED - Missouri Public Service Commission - 05/01/2024 - TN-2024-0278 - JI-2024-0140

CANCELLED - Missouri Public Service Commission - 11/01/2025 - JI-2026-0046

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
- C. Channel Interfaces

The following channel interfaces (Cl's) define the bit rates that are available for a High Capacity channel:

CI Bit Rate

DS-I5(I)(2) I.544 Mbps (DSI)

DS-44 44.736 Mbps (DS3)

Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

- D. Service to Service Through Connect Arrangement
 - 1. High Capacity Service Arrangement

This provides the interconnection of two DS1 at a Digital Hub.

2. Multiplexed Service Arrangement

This provides the interconnection of two digital channels extended from High Capacity multiplexed services. The through connect will be provisioned in lieu of a typical High Capacity channel termination. The ordering customer must provide channel assignments for both multiplexed services. Channel mileage is required if the multiplexed services are terminated in two separate digital hubs.

- (1) A 64.0 Kbps channel is available as a channel(s) of a I.544 Mbps facility to a Telephone Company Hub.
- (2) Effective June 30, 2021, 64.0 Kbps will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

Southwestern Bell Telephone Company d/b/a AT&T Missouri

Section 7 7th Revised Sheet 38 Replacing 6th Revised Sheet 38

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
- C. Channel Interfaces

The following channel interfaces (Cl's) define the bit rates that are available for a High Capacity channel:

> CI Bit Rate

DS-I5(I)(2) I.544 Mbps (DSI)

DS-44 44.736 Mbps (DS3)

Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

- D. Service to Service Through Connect Arrangement
 - 1. High Capacity Service Arrangement

This provides the interconnection of two DS1 at a Digital Hub.

2. Multiplexed Service Arrangement

Issued: May 28, 2021

This provides the interconnection of two digital channels extended from High Capacity multiplexed services. The through connect will be provisioned in lieu of a typical High Capacity channel termination. The ordering customer must provide channel assignments for both multiplexed services. Channel mileage is required if the multiplexed services are terminated in two separate digital hubs.

A 64.0 Kbps channel is available as a channel(s) of a I.544 Mbps facility to a Telephone Company Hub. (1)

(2) Effective June 30, 2021, 64.0 Kbps will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (AT)

(AT)

Access Services Tariff
Section 7
6th Revised Sheet 38
Replacing 5th Revised Sheet 38

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
- C. Channel Interfaces

The following channel interfaces (CI's) define the bit rates that are available for a High Capacity channel:

	<u>C1</u>	<u>Bit Rate</u>
(RT)	DS-15(1)	1.544 Mbps (DSl)
(RT)	DS-44	44.736 Mbps (DS3)
(RT)		

Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

- D. Service to Service Through Connect Arrangement
 - 1. High Capacity Service Arrangement

This provides the interconnection of two DS1 at a Digital Hub.

2. Multiplexed Service Arrangement

This provides the interconnection of two digital channels extended from High Capacity multiplexed services. The through connect will be provisioned in lieu of a typical High Capacity channel termination. The ordering customer must provide channel assignments for both multiplexed services. Channel mileage is required if the multiplexed services are terminated in two separate digital hubs.

(1) A 64.0 Kbps channel is available as a channel(s) of a 1.544 Mbps facility to a Telephone Company Hub.

Issued: August 27, 1993 Effective: September 27, 1993

Access Services Tariff
Section 7
5th Revised Sheet 38
Replacing 4th Revised Sheet 38

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

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7.2.8 High Capacity Service-(Continued)

MISSOURI

C. Channel Interfaces

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Public Service Commission

The following channel interfaces (CI's) define the bit rates that are available for a High Capacity channel:

<u>CI</u>	Bit Rate	
DS-15(1)	1.544 Mbps (DS1)	
DS-27	274.176 Mbps (DS4)	
DS-31	3.152 Mbps (DS1C)	
DS-44	44.736 Mbps (DS3)	
DS-53	6.312 Mbps (DS2)	

Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

- D. Service to Service Through Connect Arrangement
 - 1. High Capacity Service Arrangement

This provides the interconnection of two DS1 at a Digital Hub.

2. Multiplexed Service Arrangement

This provides the interconnection of two digital channels extended from High Capacity multiplexed services. The through connect will be provisioned in lieu of a typical High Capacity channel termination. The ordering customer must provide channel assignments for both multiplexed services. Channel mileage is required if the multiplexed services are terminated in two separate digital hubs.

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(1) A 64.0 Kbps channel is available as a channel(s) of a 1.544 Mbps facility to a Telephone Company Hub.

Issued: FEB 2 2 1990

Effective: MAR 2 6 1990

FILED

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

MAR 26 1990

Access Services Tariff Section 7 4th Revised Sheet 38 Replacing 3rd Revised Sheet 38

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

SEP 25 1989

7.2.8 High Capacity Service-(Continued)

MISSOURI

C. Channel Interfaces

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The following channel interfaces (CI's) define the bit rates that are available for a High Capacity channel:

BY DISSOURI DS-27
NISSOURI DS-31 Bit Rate 1.544 Mbps (DS1) 274.176 Mbps (DS4) 3.152 Mbps (DS1C) 44.736 Mbps (DS3) 6.312 Mbps (DS2)

Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2.

- D. Optional Features and Functions
 - 1. Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a lxN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer's premises. The customer is responsible for providing the equipment at his/her premises.

2. Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as part of the option.

(1) A 64.0 Kbps channel is available as a channel(s) of a 1.544 Mbps facility to a Telephone Company Hub.

Issued: SEP 2 5 1989 Effective:

Access Services Tariff Section 7 3rd Revised Sheet 38 Replacing 2nd Revised Sheet 38

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

JUN 22 1988

7.2.8 High Capacity Service-(Continued)

MISSOURI

C. Channel Interfaces

Public Service Commission

The following channel interfaces (CI's) define the bit rates that are available for a High Capacity channel:

CI	Bit Rate
DS-15(1)	1.544 Mbps (DS1)
DS-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-53	6.312 Mbps (DS2)

Compatible channel interfaces are set fortheth-Faragraph 7.3.5, H., following.

Optional Features and Functions

Automatic Loop Transfer

Automatic Loop Transfer

BY COMMISSION

The Automatic Loop Transfer provides profestion on a lxN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer's premises. The customer is responsible for providing the equipment at his/her premises.

(CP) (CP)

2. Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as part of the option.

(1) A 64.0 kbps channel is available as a channel(s) of a 1.544 Mbps facility to a Telephone Company Hub.

Effective:

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Issued: JUN 22 1988

By R. D. BARRON, President-Missouri Division

Southwestern Bell Telephone Company St. Louis, Missouri

JUL 8 1988

Public Service Commission

Access Services Tariff Section 7 2nd Revised Sheet 38 Replacing_1st_Revised_Sheet_38-

(CP)ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

C. Channel Interfaces

The following channel interfaces (CI's) define the Publica Commission

available for a High Capacity channel:

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CI	Bit_Rate	-5
DS-15(1) DS-27	1.544 Mbps (DS1) 274.176 Mbps (DS4)	CANCELLED
DS-27	\	JUL 8 1988
DS-44	44.736 Mbps (DS3)	2000 S# 30
DS-53	6.312 Mbps (DS2)	BY 3 P S # 38 By 3 P Commission

Compatible channel interfaces are set forth in Paragraph 7.3,5550 URI fellowing.

- Optional Features and Functions
 - 1. Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a lxN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection · is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer's premises. The customer is responsible for providing the equipment at its premises. Equipment at the customer's premises will be provided under tariff only if it existed in the Telephone Company's inventory as of November 18, 1983.

2. Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A Key Activated or Dial-Up-Control Service is required to operate the transfer arrangement A spare line, if required, is not included as part of the option.

(1) A 64.0 kbps channel is available as a channel(s) of a 1,544 Mbps facility to a Telephone Company Hub.

Issued:

JUN 27 1986

Effective:

Access Services Tariff
Section 7
lst Revised Sheet 38
Replacing Original Sheet 38

ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)

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Public Service Commission

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- 7. Voice Grade 7 (VG7) Special Access Service-(Continued)
 - a. Description-(Continued)

is two-wire or four-wire and the IC terminal location interface is four-wire. This service will support effective two-wire or four-wire transmission.

b. Illustrative Applications

Special Access Service VG7 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Centrex C.O. Station Line Off-Premises Station
- PBX Off-Premises Station
- Foreign Exchange Trunk (Closed End)
- Foreign Exchange Line (Closed End)
- PBX Tie Trunks
- SSN Tie Trunks
- Voice Grade Data Connecting Facility
- c. Optional Features
 - Improved return loss for effective two-wire transmission at the End User's premises.
 - C-Conditioning
 - DA-Conditioning
 - IC specified End User's premises receive level within a range acceptable to the Telephone Company Telephone Company

(RT)

BY SERVICE COMMISSION OF MISSOURI

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Issued: AUG 1 5 1984

Effective: OC

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ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
 - 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services (Continued)
 - B. Voice Grade Services-(Continued)
 - 7. Voice Grade 7 (VG7) Special Access Service-(Continued)
 - a. Description-(Continued)

is two-wire or four-wire and the IC terminal location interface is four-wire. This service will support effective two-wire or four-wire transmission.

b. Illustrative Applications

Special Access Service VG7 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Centrex C.O. Station Line Off-Premises Station
- PBX Off-Premises Station
- Foreign Exchange Trunk (Closed End)
- Foreign Exchange Line (Closed End)
- PBX Tie Trunks
- SSN Tie Trunks
- Voice Grade Data Connecting Facility

c. Optional Features

- Improved return loss for effective two-wire UBLIC SERVICE COMMISSION transmission at the End User's new contraction of MISSOURI

- C-Conditioning
- DA-Conditioning
- IC specified End User's premises receive level within a range acceptable to the Telephone Company on effective four-wire transmission.

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DEC 2 9 1983 Issued:

JAN 0 1 1984 Effective:

P.S.C. Mo. - No. 36 ACCESS SERVICES TARIFF

Southwestern Bell Telephone Company, LLC d/b/a AT&T Missouri Section 7 8th Revised Sheet 39 Replacing 7th Revised Sheet 39

FILED - Missouri Public Service Commission - 05/01/2024 - TN-2024-0278 - JI-2024-0140

CANCELLED - Missouri Public Service Commission - 11/01/2025 - JI-2026-0046

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
- E. Optional Features, BSEs and Functions
 - 1.
 - 2. Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as part of the option.

- 3. Central Office Multiplexing BSE
 - a. DS3 to DSI

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

Issued: April 1, 2024 Effective: May 1, 2024

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
- E. Optional Features, BSEs and Functions
 - 1.

2. Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as part of the option.

- 3. Central Office Multiplexing BSE
 - a. DS3 to DSI

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

Issued: November 9, 2011 Effective: December 9, 2011

Access Services Tariff
Section 7
6th Revised Sheet 39
Replacing 5th Revised Sheet 39

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
- E. Optional Features, BSEs and Functions
 - 1. Automatic Loop Transfer BSE

The Automatic Loop Transfer provides protection on a lxN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer's premises. The customer is responsible for providing the equipment at his/her premises.

2. Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as part of the option.

3. Central Office Multiplexing BSE

(RT)

(RT)

(FC) a. DS3 to DS1

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

(RT)

(RT)

Issued: August 27, 1993 Effective: September 27, 1993

(AT)

(C)

Access Services Tariff Section 7 5th Revised Sheet 39 Replacing 4th Revised Sheet 39

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

Optional Features, BSEs and Functions

Automatic Loop Transfer BSE

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MISSOURI Public Service Commission

The Automatic Loop Transfer provides protection on a lxN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer's premises. The customer is responsible for providing the equipment at his/her premises.

2. Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spar line, if required, is not included as part of the option.

(TA) 3. Central Office Multiplexing BSE

DS4 to DS1

BY 6 TR. 5# 39 An arrangement that converts a 274.176 Mbps channel (Service Commission 168 DS1 channels using digital time division multipleximission)

DS3 to DS1

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

c. DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DSl channels using digital time division multiplexing.

Issued: MAR 2 6 1993

Effective:

SEP 25 1993

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

(FC)

Access Services Tariff
Section 7
4th Revised Sheet 39
Replacing 3rd Revised Sheet 39

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

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7.2.8 High Capacity Service-(Continued)

MISSOURI
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E. Optional Features and Functions

1. Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a lxN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer's premises. The customer is responsible for providing the equipment at his/her premises.

2. Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as part of the option CANCELLED

3. Central Office Multiplexing

a. DS4 to DS1

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An arrangement that converts a 274.176 Hbps champing Service Commission 168 DSl channels using digital time division multiplexing SOURI

b. DS3 to DS1

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

c. DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DSI channels using digital time division multiplexing.

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Issued: FEB 2 2 1990

Effective: MAR 2 6 1990

MAR 26 1990

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Access Services Tariff Section 7 3rd Revised Sheet 39 Replacing 2nd Revised Sheet 39

ACCESS SERVICES

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SPECIAL ACCESS SERVICE-(Continued)

SEP 25 1989

Public Service Commission

- 7.2 Service Descriptions~(Continued)
- 7.2.8 High Capacity Service-(Continued)
- D. Optional Features and Functions-(Continued)
 - 3. Central Office Multiplexing
 - DS4 to DS1

Public Service Commission An arrangement that converts a 274.176 Mbps channel to 168 DSl channels using digital time division multiplexing.

b. DS3 to DS1

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

c. DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.

d. DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DS1 to the Hub can also be used for a MegaLink Data, Metallic Service or WATS Access Lines.

f. DSl to DSO

An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

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Access Services Tariff Section 7 2nd Revised Sheet 39 Replacing 1st Revised Sheet 39

ACCESS SERVICES

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SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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- D. Optional Features and Functions-(Continued)
 - Central Office Multiplexing
 - a. DS4 to DS1

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An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time division multiplexing.

DS3 to DS1

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

DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.

d. DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

e. DSl to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DSI to the Hub can also be used for a Digital Data, Program Audio, Metallic Service or WATS Access Lines.

f. DSl to DSO

An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

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Public Service Commission

Issued: OCT 1 4 1987

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Effective: OCT 16 1987.

(CP)ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
 - 7.2.8 High Capacity Service-(Continued)
 - D. Optional Features and Functions-(Continued)
 - Central Office Multiplexing
 - DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to . 168 DS1 channels using digital time division multiplexing.

b. DS3 to DS1

An arrangement that coverts a 44.736 Mbps channel to 28 DSJELLED channels using digital time division multiplexing. CANCELLED

c. DS2 to DS1

OCT 16 1987 An arrangement that converts a 6.312 Mbps channel to commission multiplexing contract multiplexi DS1 channels using digital time division multiplexing Service Commission
DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

e. DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DS1 to the Hub can also be used for a Digital Data, Program Audio or Metallic Service.

f. DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

Access Services Tariff

Replacing Original Sheet 39

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Public Service Commission

1st Revised Sheet 39

Section 7

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Access Services Tariff
Section 7
Original Sheet 39

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

- DEC 20 1003
- 7.2 Technical Service Descriptions for Special Access Service-(Continued)!
 - 7.2.1 Analog Services-(Continued)

Public Commission

- B. Voice Grade Services-(Continued)
 - 7. Voice Grade 7 (VG7) Special Access Service-(Continued)
 - c. Optional Features-(Continued)
 - -Improved return loss of four-wire point of interface, applicable to each two-wire of effective four-wire channel.
 - d. Transmission Performance
 - C-Message Noise

The C-Message Noise shall be less than:

	Limit (d)	BrnCO)(1)
Channel Mileage (mi)	Type Vl	Type V2
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

- Echo Control

Echo Control, identified as Equal Level Echo Path Loss at four-wire interfaces of Return Loss and Singing Return Loss, at either the End User's premises or IC terminal location shall be not less than the following limits:

PUBLIC SERVICE COMMISSION
OF MISSOURI

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(1) Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

ACCESS SERVICES TARIFF

Section 7 Southwestern Bell Telephone 8th Revised Sheet 40 Company, LLC d/b/a AT&T Missouri Replacing 7th Revised Sheet 40

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
- E. Optional Features, BSEs and Functions-(Continued)
 - 3. Central Office Multiplexing BSE-(Continued)
 - b. DS1 to Voice

An arrangement that converts a I.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DS1 to the Hub can also be used for a MegaLink Data, Metallic Service or WATS Access Lines.

c. DS1 to DSO

An arrangement that converts a I.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

d. DSO to Subrate(1)

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8

FILED - Missouri Public Service Commission - 05/01/2024 - TN-2024-0278 - JI-2024-0140

- or .6 kbps channels using digital time division multiplexing.
- 4. Clear Channel Capability BSE

Clear Channel Capability is an optional feature that provides the customer with an increase in useable bandwidth from 1.344 Mbps to 1.536 Mbps of an unconstrained data stream across the network. Clear Channel Capability is provided only on 1.544 Mbps High Capacity service and requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code format as set forth in the technical reference for high capacity at the end of Paragraph 7.2. Customer equipment must be compatible with this method of providing the unconstrained signal.

(1) Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

Southwestern Bell Telephone Company d/b/a AT&T Missouri

Section 7 7th Revised Sheet 40 Replacing 6th Revised Sheet 40

(AT)

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ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
- E. Optional Features, BSEs and Functions-(Continued)
 - 3. Central Office Multiplexing BSE-(Continued)
 - b. DS1 to Voice

An arrangement that converts a I.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DS1 to the Hub can also be used for a MegaLink Data, Metallic Service or WATS Access Lines.

c. DS1 to DSO

An arrangement that converts a I.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

d. DSO to Subrate(1) (CP)

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps

- or .6 kbps channels using digital time division multiplexing.
- 4. Clear Channel Capability BSE

Clear Channel Capability is an optional feature that provides the customer with an increase in useable bandwidth from 1.344 Mbps to 1.536 Mbps of an unconstrained data stream across the network. Clear Channel Capability is provided only on 1.544 Mbps High Capacity service and requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code format as set forth in the technical reference for high capacity at the end of Paragraph 7.2. Customer equipment must be compatible with this method of providing the unconstrained signal.

(1) Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

Issued: May 28, 2021 Effective: June 30, 2021

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ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
- E. Optional Features, BSEs and Functions-(Continued)
 - 3. Central Office Multiplexing BSE-(Continued)
 - b. DS1 to Voice

An arrangement that converts a I.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DS1 to the Hub can also be used for a MegaLink Data, Metallic Service or WATS Access Lines.

c. DS1 to DSO

An arrangement that converts a I.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

d. DSO to Subrate

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps

or .6 kbps channels using digital time division multiplexing.

4. Clear Channel Capability BSE

Clear Channel Capability is an optional feature that provides the customer with an increase in useable bandwidth from 1.344 Mbps to 1.536 Mbps of an unconstrained data stream across the network. Clear Channel Capability is provided only on 1.544 Mbps High Capacity service and requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code format as set forth in the technical reference for high capacity at the end of Paragraph 7.2. Customer equipment must be compatible with this method of providing the unconstrained signal.

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ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
 - 7.2 Service Descriptions-(Continued)
 - 7.2.8 High Capacity Service-(Continued)
 - E. Optional Features, BSEs and Functions-(Continued)
 - 3. Central Office Multiplexing BSE-(Continued)
- (RT) | | (RT)
- (FC) b. DSl to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DSI to the Hub can also be used for a MegaLink Data, Metallic Service, DovLink or WATS Access Lines.

(FC) c. DSl to DSO

An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

(FC) d. DSO to Subrate

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps or 9.6 kbps channels using digital time division multiplexing.

4. Clear Channel Capability BSE

Clear Channel Capability is an optional feature that provides the customer with an increase in useable bandwidth from 1.344 Mbps to 1.536 Mbps of an unconstrained data stream across the network. Clear Channel Capability is provided only on 1.544 Mbps High Capacity service and requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code format as set forth in the technical reference for high capacity at the end of Paragraph 7.2. Customer equipment must be compatible with this method of providing the unconstrained signal.

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Access Services Tariff
Section 7
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Replacing 3rd Revised Sheet 40

ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)

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7.2.8 High Capacity Service-(Continued)

MAR 29 1993

E. Optional Features, BSEs and Functions-(Continued)

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Central Office Multiplexing BSE-(Continued)

d. DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

e. DSl to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DS1 to the Hub can also be used for a MegaLink Data, Metallic Service, DovLink or WATS Access Lines.

f. DSl to DSO

An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

g. DSO to Subrate

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An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps or five 9.6 kbps channels using digital time division multiplexing.

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4. Clear Channel Capability BSE

Clear Channel Capability is an optional feature that provides the customer with an increase in useable bandwidth from 1.344 Mbps to 1.536 Mbps of an unconstrained data stream across the network. Clear Channel Capability is provided only on 1.544 Mbps High Capacity service and requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code format as set forth in the technical reference for high capacity at the end of Paragraph 7.2. Customer equipment must be compatible with this method of providing the unconstrained signal.

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By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

on APR 11 1993 92 - 30 4 MO. PUBLIC SERVICE COMM.

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ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
 - E. Optional Features and Functions-(Continued)
 - Central Office Multiplexing-(Continued)
 - d. DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

e. DSl to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DSl to the Hub can also be used for a MegaLink Data, Metallic Service, DovLink or WATS Access Lines.

f. DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

g. DSO to Subrate

An arrangement that converts a 64.0 kbps channel to CANCELLED subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps or five 9.6 kbps channels using digital time division multiplexing.

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4. Clear Channel Capability

Clear Channel Capability is an optional feature that provides the customer with an increase in useable bandwidth from 1.344 Mbps to 1.536 Mbps of an unconstrained data stream across the network. Clear Channel Capability is provided only on 1.544 Mbps High Capacity service and requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code format as set forth in the technical reference for high capacity at the end of Paragraph 7.2. Customer equipment must be compatible with this method of providing the unconstrained signal.

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SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

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7.2.8 High Capacity Service-(Continued)

MISSOURI
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- E. Optional Features and Functions-(Continued)
 - Central Office Multiplexing-(Continued)
 - d. DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

e. DSl to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DS1 to the Hub can also be used for a MegaLink Data, Metallic Service or VATS Access Lines.

f. DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64.0 kbps channels utilizing digital time division multiplexing.

g. DSO to Subrate

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An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps or five 9.6 kbps channels using digital time division multiplexing.

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4. Clear Channel Capability

Clear Channel Capability is an optional feature that provides the customer with an increase in useable bandwidth from 1.344 Mbps to 1.536 Mbps of an unconstrained data stream across the network. Clear Channel Capability is provided only on 1.544 Mbps High Capacity service and requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code format as set forth in the technical reference for high capacity at the end of Paragraph 7.2. Customer equipment must be compatible with this method of providing the unconstrained signal.

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ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
- E. Optional Features, BSEs and Functions-(Continued)
 - 5. Extended Superframe Format BSE

Extended Superframe Format is an optional feature that passes a customer provided framing format for 1.544 Mbps High Capacity service. Extended Superframe Format extends the customer's 1.544 Mbps framing structure from 12 to 24 frames and divides the 8 kbps 193rd bit position pattern into three distinct functionalities: 2 kbps for frame synchronization, 2 kbps for cyclic redundancy checking, and 4 kbps used primarily to send performance monitoring information over the Facilities Data Link.

(CP) 6. Power Over The Interface(1)

Power Over the Interface is an optional feature available with the installation of 1.544 Mbps High Capacity service. This option provides line power to the Customer's Premises Equipment, enabling the customer to benefit from uninterrupted service if a commercial power failure occurs.

(AT) (1) Obsolete, and limited to existing installations at existing locations, for (AT) existing customers.

Issued: August 26, 1994 Effective: September 26, 1994

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Section 7
2nd Revised Sheet 41.01
Replacing 1st Revised Sheet 41.01

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

(AT)

7.2.9 DovLink Service

A. Basic Channel Description

A DovLink channel is a channel for the transmission of either synchronous or asychronous data at speeds of 2.4, 4.8 or 9.6 kbps. The actual bit rate is a function of the channel interface selected by the customer. A DovLink Channel Termination is provided as a derived channel of a customer's intraexchange voice grade service loop facility. The customer may transmit data over the DovLink channel simultaneously with a voice transmission. The customer must provide a data voice multiplexer at the designated premises.

DovLink is provided where suitable intraexchange voice grade service loop facilities are available subject to the transmission limitations of the facilities and equipment used by the Telephone Company. DovLink is provided between customer-designated premises or between a customer-designated premises and a Telephone Company Hub where bridging or multiplexing functions are performed.

B. Technical Specifications Package

The technical specifications for the customer-provided data voice multiplexer are set forth in the appropriate Technical Reference for

(AT) DovLink Service listed in Paragraph 7.2, preceding.

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Access Services Tariff Section 7 1st Revised Sheet 41.01 Replacing Original Sheet 41.01 1st Revised Sheet 42 2nd Revised Sheet 43 RECEIVED 1st Revised Sheet 44 1st Revised Sheet 45 1st Revised Sheet 46 APR 2.0 1990 2nd Revised Sheet 47 2nd Revised Sheet 48 MISSOURI Public Service Commission through 1st Revised Sheet 54 2nd Revised Sheet 55 through 2nd Revised Sheet 57 4th Revised Sheet 58 1st Revised Sheet 59 through 1st Revised Sheet 61 Originl Sheet 62 1st Revised Sheet 63 2nd Revised Sheet 64 through 2nd Revised Sheet 67

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SPECIAL ACCESS SERVICE-(Continued)

Information previously found in Section 7.3 may be found in the approved Technical Reference Publications.

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Effective: JUN 0 6 1990

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- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
 - D. Optional Features and Functions-(Continued)
 - 3. Central Office Multiplexing-(Continued)
 - g. DSO to Subrate

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps or five 9.6 kbps channels using digital time division multiplexing.

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

	Available with Technical Specifications Package HC-						
·	<u>0</u>	ī	<u>1C</u>	2	<u>3</u>	<u>4</u>	
Automatic Loop Transfer	CANC	ELLE	.D				
Central Office Multiplexing: DS4 to DS1 DS3 to DS1 DS2 to DS1 DS1C to DS1 DS1 to Voice DS1 to DS0	BYOZ	ng 199 vice Co issour	mmission	X	X	X	u
DSO to Subrate(1) Transfer Arrange-					Fill	图图	•
ment		X			JUL 1	1986	;
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(1) Available only on a channel of a 1.544 Mbps facility to a Telephone Company Hub.

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7. SPECIAL ACCESS SERVICE-(Continued)

- DEC 29 1083
- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
- 7.2.1 Analog Services-(Continued)

Public Service Commission

- B. Voice Grade Services-(Continued)
 - 7. Voice Grade 7 (VG7) Special Access Service-(Continued)
 - d. Transmission Performance-(Continued).
 - Echo Control-(Continued)

Effective Two-Wire Transmission

(Four-wire interface at the IC terminal location and two-wire interface at the End User's premises.)

	Echo	Singing
	Return Loss	Return Loss
Standard Return Loss		
(at Two-Wire Interface)	5 dB	2.5 dB
Improved Return Loss		•
(at Two-Wire Interface)	13 dB	8 dB
Four-Wire Interface	16 dB	11 dB
(Equal Level Echo		
Path Loss)		

(For Centrex application, 2 dB pad is "in")

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Issued: DEC 29 1983

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SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

MAR 29 1993

7.2.8 High Capacity Service-(Continued)

MISSOURI Public Service Commission

(AT) E. Optional Features, BSEs and Functions-(Continued)

(AT) 5. Extended Superframe Format BSE

Extended Superframe Format is an optional feature that passes a customer provided framing format for 1.544 Mbps High Capacity service. Extended Superframe Format extends the customer's 1.544 Mbps framing structure from 12 to 24 frames and divides the 8 kbps 193rd bit position pattern into three distinct functionalities: 2 kbps for frame synchronization, 2 kbps for cyclic redundancy checking, and 4 kbps used primarily to send performance monitoring information over the Facilities Data Link.

6. Power Over The Interface

Power Over the Interface is an optional feature available with the installation of 1.544 Mbps High Capacity service. This option provides line power to the Customer's Premises Equipment, enabling the customer to benefit from uninterrupted service if a commercial power failure occurs.

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Issued: MAR 2 6 1993

Effective:

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ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

MISSOURI Public Service Commission

- 7.2.8 High Capacity Service-(Continued)
 - E. Optional Features and Functions-(Continued)

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5. Extended Superframe Format

Extended Superframe Foramt is an optional feature that passes a customer provided framing format for 1.544 Mbps High Capacity service. Extended Superframe Format extends the customer's 1.544 Mbps framing structure from 12 to 24 frames and divides the 8 kbps 193rd bit position pattern into three distinct functionalities: 2 kbps for frame synchronization, 2 kbps for cyclic redundancy checking, and 4 kbps used primarily to send performance monitoring information over the Facilities Data Link.

6. Power Over The Interface

Power Over the Interface is an optional feature available with the installation of 1.544 Mbps High Capacity service. This option provides line power to the Customer's Premises Equipment, enabling the customer to benefit from uninterrupted service if a commercial power failure occurs.

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Public Service Commission

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7. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

MISSOURI
Public Service Commission

E. Optional Features and Functions-(Continued)

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

		Available with Technical Specifications Package HC-					
	ō	1	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>	
Automatic Loop Transfer		x					
Central Office Multiplexing: DS4 to DS1 DS3 to DS1 DS2 to DS1 DS1C to DS1 DS1 to Voice DS1 to DS0 DS0 to Subrate(1) Transfer Arrange-	x	X X	x	x	x	x	
ment		X					
Clear Channel Capability		X		CAN	CELLE	. U	
			Put	JUN BY C Dlic Serv M!	6 1990 FR.S.H rice Con SSOUR	1 <u>40.</u> 1/ nmission	

(1) Available only on a channel of a 1.544 Mbps facility to a Telephone Company Hub.

Issued: FEB 2 2 1990

Effective: MAR 2 6 1990

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Company, LLC d/b/a AT&T Missouri

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- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
- E. Optional Features, BSEs and Functions-(Continued)

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

Available with Technical

			Specifications Package HC-
	<u>0</u>	<u>1</u>	<u>3</u>
Transfer Central Office Multiplexing:		X	
DS3 to DS1			X
DSI to Voice DSI to DSO DSO to Subrate(1)(3) Transfer Arrange- ment Clear Channel Capability Extended Superframe Format Power Over the		x x x x x	
Interface(2)		Χ	

- (1) Available only on a channel of a I.544 Mbps facility to a Telephone Company Hub or on a DS0 channel that connects to a customer's Network Reconfiguration Service (NRS) Network that contains a DS1 channel.
- (2) Obsolete, and limited to existing installations at existing locations, for existing customers.
- (3) Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-tomonth basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

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ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
 - 7.2.8 High Capacity Service-(Continued)
 - E. Optional Features, BSEs and Functions-(Continued)

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

			Specifications Package HC-	
	<u>0</u>	<u>1</u>	<u>3</u>	
Transfer Central Office Multiplexing:		X		
DS3 to DS1			X	
DSI to Voice DSI to DSO DSO to Subrate(1)(3) Transfer Arrange-		X X X	(1	CP)
ment Clear Channel		X		
Capability Extended Superframe Format		X		
Power Over the Interface(2)		Χ		

Available with Technical

- (1) Available only on a channel of a I.544 Mbps facility to a Telephone Company
 Hub or on a DS0 channel that connects to a customer's Network Reconfiguration Service (NRS) Network that
 contains a DS1 channel.
- (2) Obsolete, and limited to existing installations at existing locations, for existing customers.
- (3) Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. (AT) In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

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ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
 - 7.2.8 High Capacity Service-(Continued)
 - E. Optional Features, BSEs and Functions-(Continued)

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

Available with Technical Specifications Package HC-

<u>0</u> <u>1</u> <u>3</u>

(RT)

Transfer X
Central Office
Multiplexing:

DS3 to DS1 X

DSI to Voice Χ DSI to DSO Χ Χ DSO to Subrate(1) Transfer Arrangement Χ Clear Channel Χ Capability **Extended Superframe Format** Χ Power Over the Interface(2) Χ

- (1) Available only on a channel of a I.544 Mbps facility to a Telephone Company
 Hub or on a DS0 channel that connects to a customer's Network Reconfiguration Service (NRS) Network that
 contains a DS1 channel.
- (2) Obsolete, and limited to existing installations at existing locations, for existing customers.

Issued: November 9, 2011

CANCELLED June 30, 2021 Missouri Public Service Commission JI-2021-0210 By JOHN SONDAG, President - Missouri St. Louis, Missouri Effective: December 9, 2011

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Service Commission

JI-2012-0208

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ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
- E. Optional Features, BSEs and Functions-(Continued)

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

			Available with Technical Specifications Package HC-
	<u>0</u>	<u>1</u>	<u>3</u>
Automatic Loop Transfer		X	
Central Office Multiplexing:			
DS3 to DS1			X
DSI to Voice DSI to DSO		X X	
DSO to Subrate(1)	X	Λ	
Transfer Arrange- ment		X	
Clear Channel Capability		X	
Extended Superframe Format Power Over the		X	

- (l) Available only on a channel of a 1.544 Mbps facility to a Telephone Company
- (AT) Hub or on a DS0 channel that connects to a customer's Network Reconfiguration Service (NRS) Network that contains a DS1 channel.

X

- (AT) (2) Obsolete, and limited to existing installations at existing locations, for
- (AT) existing customers.

Interface(2)

(CP)

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SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

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Public Service Commission

7.2.8 High Capacity Service-(Continued)

E. Optional Features, BSEs and Functions-(Continued)

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

					with Technical ions Package HC-
(RT)		<u>0</u>	1	3	
	Automatic Loop Transfer		X		
	Central Office Multiplexing:				
(RT)	DS3 to DS1			X	CANCELLED
(RT)	DS1 to Voice		X		SEP 261994 # 41
	DS1 to DS0 DSO to Subrate(1) Transfer Arrange-	X	Х		TI R. Commission
	ment Clear Channel		X		Public Service Commission MISSOURI
8	Capability Extended Superframe		X		
_	Format Power Over the		X		
	Interface		X		

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(1) Available only on a channel of a 1.544 Mbps facility to a TelephoneMISSOURI
Company Hub.

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SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

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7.2.8 High Capacity Service-(Continued)

MISSOURI Public Service Commission

(AT) E. Optional Features, BSEs and Functions-(Continued)

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

					h Techn is Packa	
	<u>0</u>	<u>1</u>	<u>1C</u>	2	3	<u>4</u>
Automatic Loop						
Transfer		X				
Central Office						
Multiplexing:						
DS4 to DS1						Х
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DS0		X				
DSO to Subrate(1)	X					
Transfer Arrange-						
ment		X			CANCE	TIEN
Clear Channel						
Capability		X				- 1003
Extended Superframe					e=02	2 1221 C
Format		X			OF	05 41
Power Over the					15m	Commiss
Interface		X		מ מונים	ic Service	5 1997 R.S. # HI De Commiss SOURI
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(1) Available only on a channel of a 1.544 Mbps facility to a Telephone Company Hub.

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Effective:

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SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

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7.2.8 High Capacity Service-(Continued)

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E. Optional Features and Functions-(Continued)

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

		Available with Technical Specifications Package HC-					
	<u>0</u>	<u>1</u>	<u>1c</u>	2	<u>3</u>	4	
Automatic Loop Transfer		x					
Central Office Multiplexing: DS4 to DS1 DS3 to DS1 DS2 to DS1 DS1C to DS1 DS1 to Voice DS1 to DS0		X X	X	x	X	х	
DSI to USO DSO to Subrate(1) Transfer Arrange- ment Clear Channel Capability Extended Superframe Format Power Over the Interface	X	x x x x		APR 11 SY 上海	1993 R.S. H Commission	∮ ssion	

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(1) Available only on a channel of a 1.544 Mbps facility to a Telephone Company Hub.

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Effective: JUN 0 6 1990

No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose 2nd Revised Sheet 41 of canceling this tariff. Replacing 1st Revised Sheet 41 Original Sheet 41.01 1st Revised Sheet 42 2nd Revised Sheet 43 1st Revised Sheet 44 1st Revised Sheet 45 1st Revised Sheet 46 2nd Revised Sheet 47 Publicado Revased Shee 8 48 1st Revised Sheet 49 through 1st Revised Sheet 54 2nd Revised Sheet 55 CANCELLED through 2nd Revised Sheet 57

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1st Revised Sheet 61
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(CP)ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

(AT) Information previously found in Section 7.3 may be found in the approved Technical Reference Publications.

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OCT 1, 1989

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Issued: SEP 2 5 1989

Effective: OCT 1 1980

(CP)ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes

This Section explains the channel interface codes and net wood with nel codes that the IC must specify when ordering Specifully Service Commission Included is an example which explains the specific characters of the code, a glossary of channel interface codes, impedance levels, network channel codes and compatible channel interfaces.

Access Services Tariff

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Section 7

Example: If the IC specifies an NT network channel code and a 2DC8-3 channel interface at the IC terminal location, it is requesting the following:

NT = Metallic channel with a predefined technical specification package

2 = Number of physical wires at IC terminal location

CANCELLED DC = Facility interface for direct current or voltage

8 = Variable impedance level

3 = Metallic facilities (DC continuity) for direct current/low-frequency control signals or slow-speed 1 data (30 baud)

7.3.1 Glossary of Channel Interface Codes and Options

	-	2 (3 5	
Glos	sar	y of Cha	nnel Interface Codes and Options Garrica Commission
Code		Option Property of the Contract of the Contrac	nnel Interface Codes and Options Definition Definition
AB	-		accepts 20 Hz ringing signal at IC point of termination
AC	-		accepts 20 Hz ringing signal at End User's point of
			termination
	-	R	code selective multipoint ringing
AН	-		analog high capacity interface
	-	В	60 kHz to 108 kHz (12 channels)
	-	С	312 kHz to 552 kHz (60 channels)
	-	D	564 kHz to 3084 kHz (600 channels)
CT	-		Centrex tie-trunk termination
DA	-		data stream in VF frequency band at End User's point of
			termination
	-	S	sealing current source and sink provided by Southwestern
			Bell Telephone
DB	-		data stream in VF frequency band at IC point of termination
			location
	-	10	VF for TG1 and TG2
	-	43	VF for TG1 and TG2 VF for 43 telegraph carrier-type signals, TG1 and TG2
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ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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- 7.2 Technical Service Descriptions for Special Access Service (Continued)
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)

MESOURI Public Service Commission

- Voice Grade 7 (VG7) Special Access Service-(Continued)
 - Transmission Performance-(Continued)
 - Echo Control-(Continued) .

Effective Four-Wire Transmission

(Two-wire interface at the End User's premises.)

	Echo Return Loss	Singing Return Loss
Two-Wire Interface		
(Return Loss)	24 dB	18 dB
Four-Wire Interface		
(Equal Level Echo Path Loss)	20 dB	14 dB

Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

Stan	dard			Imp	oved	RL
ERL			•		20	
SRL	2.5	ďΒ		SRL	13.5	ďΒ

Loss Variation

The long term loss variation from the nominal 1004 Hz EML shall not exceed +1.5 dB.

Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +2.0 dB with reference to 5 the loss at 1004 Hz (minus equals less loss, plus equals more loss). The attenuation between 304 Hz and 3004 Hz shall be within -1.0 dB and+5 0 dB.

1986 - Signal-to-C Notch NoisHL 1

The Signal-to-C Notch hoisecratio shall not be less PUBLIC SERVICE COMMISSION than 30 dB.

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Effective: JAN 0 1 1984

P.S.C. Mo. - No. 36 ACCESS SERVICES TARIFF

Southwestern Bell Telephone Company d/b/a AT&T Missouri Section 7 3rd Revised Sheet 41.1 Replacing 2nd Revised Sheet 41.1

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

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Access Services Tariff Section 7

(CP)ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

JUN 27 1986

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7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.1 Glossary of Channel Interface Codes and Options (Continued) Commission

Code	Option	Definition
DC -		direct current or voltage
-	1	monitoring interface with series RC combination (McCulloh format)
-	2	Telephone Company-energized alarm channel
-	3	Metallic facilities (DC continuity) for direct current/low-frequency control signals or slow-speed data (30 baud)
DD -		DATAPHONE Select-A-Station (and TABS) interface at IC point of termination
DE -		DATAPHONE Select-A-Station (and TABS) interface at the End User's point of termination

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Issued: JUN 27 1986

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P.S.C. Mo. - No. 36 ACCESS SERVICES TARIFF

Southwestern Bell Telephone Company d/b/a AT&T Missouri Section 7 3rd Revised Sheet 42 Replacing 2nd Revised Sheet 42

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)

CANCELLED - Missouri Public Service Commission - 05/01/2024 - TN-2024-0278 - JI-2024-0140

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Section 7
2nd Revised Sheet 42
Replacing 1st Revised Sheet 42

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- (AT) 7.2.9 DovLink Service-(Continued)
 - C. Channel Interfaces

The following channel interfaces (CI) define the bit rates that are available for a DovLink channel:

CI	Bit Rate
02DV5BA	2.4 kbps
02DV5BB	4.8 kbps
02DV5BC	9.6 kbps

D. Optional Features and Functions

Only those MegaLink Data Service Optional Features and Functions listed below are available with DovLink Service.

(1) Central Office Bridging Capability

Central office bridging connects three or more customer-designated premises in a multipoint arrangement.

Issued: October 5, 1992 Effective: December 4, 1992

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SPECIAL ACCESS SERVICE-(Continued)

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- 7.3 Channel Interface and Network Channel Codes-(Continued)
 - 7.3.1 Glossary of Channel Interface Codes and Options (Continued)

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Code	<u>(</u>	Option	Definition Definition
DS	_		digital hierarchy interface
	-	15	1.544 Mbps (DS1) format per PUB 41451 plus D4
	-	15E	8-bit PCM encoded in one 64 kbps of the DS1 signal
	-	15F	8-bit PCM encoded in two 64 kbps of the DS1 signal
	-	15G	8-bit PCM encoded in three 64 kbps of the DSl signal
•	-	15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal
	-	15J	1.544 Mbps format per PUB 41451
	-	15K	1.544 Mbps format per PUB 41451 plus extended framing
			format
	-	15L	1.544 Mbps (DS1) with SF signaling
	-	27	274.176 Mbps (DS4)
	-	27L	274.176 Mbps (DS4) with SF signaling
	-	31	3.152 Mbps (DS1C)
	-	31L	3.152 Mbps (DS1C) with SF signaling
	-	44	44.736 Mbps (DS3)
	-	44L	44.736 Mbps (DS3) with SF signaling
	-	63	6.312 Mbps (DS2)
	-	63L	6.312 Mbps (DS2) with SF signaling

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- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)
 - Voice Grade Services-(Continued)
 - Voice Grade 7 (VG7) Special Access Service-(Continued)
 - Transmission Performance-(Continued)
 - Envelope Delay Distortion

The Envelope Delay Distortion (EDD) shall not exceed 700 microseconds between 800 and 2600 Hz.

- Impulse Noise

The number of impulse noise counts exceeding a threshold of 67 dBrnCO in 15 minutes shall be less than 15.

- Intermodulation Distortion

The intermodulation distortion based upon the four tone method shall be such that R2 is not less than 33 dB and R3 not less than 40 dB.

- Phase Jitter

The phase jitter over 20-300 Hz shall not exceed 5° peak-to-peak and over 4-300 Hz shall not exceed 10° peak-to-peak.

- Frequency Shift

The frequency shift shall exceed +1 Hz.

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Replacing 4th Revised Sheet 43

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)

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Access Services Tariff Section 7 4th Revised Sheet 43 Replacing 3rd Revised Sheet 43

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

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(AT) 7.2.10 Business Video Service

A. Basic Channel Description

Business Video Service provides a video channel with two-way transmission capability for a standard 525-line/60-field monochrome, or National Television Systems Committee (NTSC) color, System M video signal. This service includes one associated audio signal in the 7 kHz range. Business Video Service is available for local channels and for associated interoffice channels.

Business Video Service may consist of one Business Video Channel termination at one end of a two-point circuit and a High Capacity (DS1) channel termination (as set forth in Paragraph 7.2.8) at the other end of the two-point circuit. This service will include the ancillary sale of one 4.8 kbps and one 9.6 kbps MegaLink Data Service channel.

Business Video Service provides for two-way compressed video/audio service on a two-point basis. Business Video is suitable for teleconferencing which connects two groups at different locations.

Business Video Service may be provided between two customer-designated premises. Two types of service are offered, Business Video I and Business Video II.

Business Video I

broadcast quality video, but has less stringent technical parameters and it has some noticeable motion impairment. The bandwidth for Business Video I is 384 kbps.

Business Video II

Business Video II is a digital channel capable of two-way two-point video/audio transmission. This video service is visually comparable to broadcast quality video, but has less stringent technical parameters. The bandwidth for Business Video II is 1.544 Mbps.

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SPECIAL ACCESS SERVICE-(Continued)

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7.3 Channel Interface and Network Channel Codes-(Continued)

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7.3.1 Glossary of Channel Interface Codes and Options- Public Service Commission

Code 0	ption	Definition
- UA - - - - -	56	digital access interface 2.4 kbps 4.8 kbps 56.0 kbps 9.6 kbps 1.544 Mbps format per PUB 41451 1.544 Mbps format per PUB 41451 plus D4 1.544 Mbps format per PUB 41451 plus extended
DX -		framing format duplex signaling interface at IC POT
DY -		duplex signaling interface at End User's POT
EA - E		Type I E&M Lead Signaling. IC at POT or End User at POT originates on E Lead.
EA - M	1	Type I E&M Lead Signaling. IC at POT or End User at POT originates on M Lead.
EB - E	2	Type II E&M Lead Signaling. 1C at POT or End User at POT originates on E Lead.
EB - M	í	Type II E&M Lead Signaling. IC at POT or End User at POT originates on M Lead.
EC -		Type III E&M signaling at IC terminal POT
EX - A	A	tandem channel unit signaling for loop start or ground start and IC supplies open end (dial tone, etc.) functions.
EX - P	3	tandem channel unit signaling for loop start or ground start and IC supplies closed end (dial tone, etc.) functions.

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ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)
 - 7. Voice Grade 7 (VG7) Special Access Service-(Continue 2blic Service Commission
 - e. Available Facility Interface Combinations

VG7 is available only with specific facility interface combinations as set forth in Paragraph 7.2.1, B.14., following.

- 8. Voice Grade 8 (VG8) Special Access Service
 - a. Description

Special Access Service VG8 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an End User's premises. The standard transmission interface at the End User's premises is two-wire or four-wire and the IC terminal location interface is four-wire. This service will support effective four-wire transmission.

b. Illustrative Application

Special Access Service VG8 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- SSN Access Line
- SSN Station Line
- c. Optional Features

- C-Condition 1997 - IC specified End User's premises receive level within a range

acceptable to the Telephone Company.

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ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
- 7.2.1 Analog Services-(Continued)

Public Service Commission

- Voice Grade Services-(Continued)
 - 7. Voice Grade 7 (VG7) Special Access Service-(Continued)
 - e. Available Facility Interface Combinations

VG7 is available only with specific facility makeriage Combinations as set forth in Paragraph 7.2.1, 14., following. OCT 15 1984

- 8. Voice Grade 8 (VG8) Special Access Service
 - a. Description

Special Access Service VG8 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an End User's premises. The standard transmission interface at the End User's premises is two-wire or four-wire and the IC terminal location interface is four-wire. This service will support effective four-wire transmission.

b. Illustrative Application

Special Access Service VG8 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- SSN Access Line
- SSN Station Line
- c. Optional Features
 - C-Conditioning
 - IC specified End User's premises receive level withi acceptable to the Telephone Company for effective transmission.

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Issued: DEC 29 1983

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7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

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Issued: January 10, 1997 February 10, 1997

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SPECIAL ACCESS SERVICE~(Continued)

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7.2 Service Descriptions-(Continued)

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- (AT) 7.2.10 Business Video Service-(Continued)
 - A. Basic Channel Description-(Continued)

The customer must provide the customer premises equipment at each end of the two-point network, such as cameras, monitors, audio and graphics equipment.

B. Technical Specifications Packages

The technical specifications are set forth in the Technical References listed in Paragraph 7.2, preceding.

C. Channel Interfaces

The following channel interfaces (CIs) define the bandwidth and the provision of the audio signal(s) associated with Business Video channels:

CI 14TV6-7 Audio Bandwidth 7kHz

Provision 2-Way (Transport)

Compatible channel interfaces are set forth in the Technical References listed in Paragraph 7.2, preceding.

- D. Optional Features and Functions
 - 1. Split Screen Capability

This allows three separate areas of the room to be viewed simultaneously, or two areas and one graphics view. The bandwidth is split between the monitors providing less than a full screen view on each monitor.

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SPECIAL ACCESS SERVICE-(Continued)

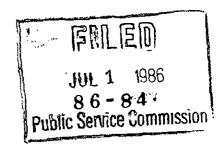
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7.3 Channel Interface and Network Channel Codes-(Continued)

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7.3.1 Glossary of Channel Interface Codes and Options - Public Senice Commission

Code		Option	Definition
GO	-		ground-start loop signaling - open-end function by IC or End User
GS	-		ground-start loop signaling - closed-end function by IC or End User
	-	C	Centrex CO FX Termination
	_	М	Southwestern Bell Telephone CO TAS Concentrator
IA			E.I.A. (25 pin RS-232)
LA	-		End User's loop-start loop signaling - Type A OPS registered port open end
LB	-		End User's loop-start loop signaling - Type B OPS registered port open end
LC	-		End User's loop-start loop signaling - Type C OPS registered port open end
LO	-		loop-start loop signaling - open-end function by IC or End User
LR	-		20 Hz automatic ringdown interface at IC with Telephone Company-provided PLAR
LS	-		loop-start loop signaling - closed-end function by IC or End User
	-	M	Southwestern Bell Telephone CO TAS Concentrator



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SPECIAL ACCESS SERVICE-(Continued)

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- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services (Continued)

Public Service Commission

- B. Voice Grade Services-(Continued)
 - 8. Voice Grade 8 (VG8) Special Access Service-(Continued)
 - c. Optional Features-(Continued)
 - Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.
 - d. Transmission Performance
 - C-Message Noise

The C-Message Noise shall be less than:

		<u>Limit (d</u>	BrnCO)(1)
Channel M	ileage (mi)	Type Vl	Type V2
0 -	50	32	38
51 -	100	33	39
101 ~	200	35	41
201 -	400	37	43
401 -	1000	39	45

- Echo Control

Echo Control, identified as Equal Level Echo Path Loss at four-wire interfaces or Return Loss at two-wire interfaces, and expressed as Echo Return Loss and Singing Return Loss, at either the End User sprimmes or IC terminal location shall be not less than the following limits:

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(1) Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

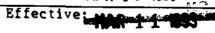
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SPECIAL ACCESS SERVICE-(Continued)

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7.3 Channel Interface and Network Channel Codes-(Continued)

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7.3.1 Glossary of Channel Interface Codes and Options-(Co

Code		Option	Definition		
NO	-		no signaling interface, transmission only		
	-	S	sealing current source provided by Southwestern		
PG			Bell Telephone, sink provided by customer		
FG	_	1	program transmission - no dc signaling		
	_	1 3	nominal frequency from 50 to 15,000 Hz nominal frequency from 200 to 3,500 Hz		
	_	5 5	nominal frequency from 100 to 5000 Hz		
	_	8	nominal frequency from 50 to 8,000 Hz		
PR	-	J	protective relaying(1)		
RV	_	0	reverse battery signaling, one-way		
***		J	operation, originate by IC		
	_	T	reverse battery signaling, one-way opera-		
		•	tion, terminate function by IC or End User		
SF	_		single frequency signaling within VF band at		
			either IC POT or End User's POT		
TT	-		telegraph/teletypewriter interface at either		
			IC POT or End User's POT		
	~	2	20.0 milliamperes		
	_	3	3.0 milliamperes		
	-	6	62.5 milliamperes		
WA	-		wideband bandwidth interface at End User's POT		
	-	1	limited bandwidth		
	-	2	nominal passband from 29,000 to 44,000 Hz		
WB	-		wideband data interface at IC POT		
	-	185	18.75 kbps, synchronous		
	~	19A	up to 19.2 kbps asynchronous		
	-	195	19.2 kbps synchronous		
	-	23A	up to 230.4 kbps, asynchronous		
	-	235	230.4 kbps, synchronous		
	-	40S	40.8 kbps, synchronous		
	-	50A	up to 50.0 kbps, asynchronous		
	-	50S	50.0 kbps, synchronous 1 1986		
			86-84		

(1) Available only for the transmission of audio tone protective relaying ommission signals used in the protection of electrical power systems during fault conditions.

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Effective: JUL 1 No. JUL 1 1988

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7.	SPECIAL	ACCESS	SERVICE-	(Continued)
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- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
- 7.2.1 Analog Services-(Continued)

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B. Voice Grade Services-(Continued)

- 8. Voice Grade 8 (VG8) Special Access Service-(Continued)
 - Transmission Performance-(Continued)
 - Echo Control-(Continued)

Effective Four-Wire Transmission

(Two-wire interface at the End User's premises).

	Eci Returi	no n Loss	Sing Return	ging 1 Loss
Two-Wire Interface		-		
(Return Loss)	24	dB	18	dВ
Four-Wire Interface	20	₫₿	14	dВ
(Equal Level Echo Path		•		
Loss)		•		
(For Centrex application,				
2 dB pad is "in")				

- Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

> AND SRI 13.5 dB Standard RL

- Loss Variation

JUL 1 1986 ----The long term loss variation from the nominal 1004 EML shall not exceed +1.82 HR

- Attenuation Distortion OF MISSOURI

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The attenuation distortion between 404 Hz and 2804 Hz shall be within =1.0 dB and 12.0 dB and 12.0 dB and 13.0 dB be within -1.0 dB and +2.0 dB with reference to the loss at 1004 Hz (minus equals less loss, plus equals more loss). The attenuation distortion between 304 Hz and 3004 Hz shall be within -1.0 dB and +5.0 dB.

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SPECIAL ACCESS SERVICE - (Continued)

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7.3 Channel Interface and Network Channel Codes-(Continued)

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7.3.1 Glossary of Channel Interface Codes and Options Collic Service Commission

<u>Code</u>	Option	Definition
- - -	18 19 23 23S 40	wideband data interface at End User's POT 18.75 kbps, synchronous for 12-wire interface: 19.2 kbps, synchronous for 10-wire interface: up to 19.2 kbps, asynchronous up to 230.4 kbps, asynchronous 230.4 kbps, synchronous 40.8 kbps, synchronous
WD -	50 - 1 - 2 - 3	for 12-wire interface: 50.0 kbps, synchronous for 10-wire interface: up to 50.0 kbps, asynchronous wideband bandwidth interface at IC POT nominal passband from 300 to 18,000 Hz nominal passband from 28,000 to 44,000 Hz nominal passband from 29,000 to 44,000 Hz

7.3.2 Impedance

The nominal reference impedance with which the IC or End User will terminate the channel for the purposes of evaluating transmission performance:

Value (ohms)	<pre>Code(s)</pre>
110 150 600 900 135 75	. 0 1 2 3 5 6
124 Variable 100	9 FILED JUL 1 1986 Public Service Commission

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- SPECIAL ACCESS SERVICE-(Continued)
 - 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)

- Public Service Commission
- 8. Voice Grade 8 (VG8) Special Access Service-(Continued)
 - d. Transmission Performance-(Continued)
 - Signal-to-C Notch Noise

The Signal-to-C Notch noise ratio shall not be less than 32 dB.

- Envelope Delay Distortion

The Envelope Delay Distortion (EDD) shall not exceed 700 microseconds between 800 and 2600 Hz.

- Impulse Noise

The number of impulse noise counts exceeding a threshold of 67 dBrnCO in 15 minutes shall be less than 15.

- Intermodulation Distortion

The intermodulation distortion based upon the four tone method shall be such that R2 is not less than 45 dB and R3 not less than 48 dB.

- Phase Jitter

The phase jitter over 20-300 Hz shall not exceed 4° peak-to-peak and over 4-300 Hz shall not exceed 9° peak-to-peak.

- Frequency Shift

The frequency shift shall not exceed ±1 Hz.

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(CP)ACCESS SERVICES

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SPECIAL ACCESS SERVICE-(Continued)

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7.3 Channel Interface and Network Channel Codes-(Continued)

MISSUUKI Public Service Commission

7.3.3 Digital Hierarchy Channel Interface Codes (4DS)

This interface is available to customers that select—the maltiplexed four-wire DSX-l or higher facility interface option at the customer-designated premises and provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS9, 4DSO or 4DS6 plus the speed options indicated below:

Interface Code and Speed Option	Nominal Bit Rate (Mbps)	Digital Hierarchy Level
4DS8-15	1.544	DS1
4DS9-31	3.152	DS1C
4DSO-63	6.312	DS2
4DS6-44	44.736	DS3
4DS6-27	274.176	DS4

7.3.4 Service Designator/Network Channel Code Conversion Table

The purpose of this table is to show the relationship between the service designator codes (e.g. VGC, MT2, etc.) and the network channel codes that are used for:

Service Designator	Network Channel	
Code	Code	
MTC	MQ	
MT1	NT	
MT2	NU	
MT3	NV	
TGC	NQ	
TG1	NW	
TG2	ΝΥ	
VGC .	LQ	 .
VG1		•
VG2	te francis	
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- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service $\frac{1}{2}$ (Con
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)

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8. Voice Grade 8 (VG8) Special Access Service-(Continued) #1100UKI Public Service Commission

Available Facility Interface Combinations

VG8 is available only with specific facility interface combinations as set forth in Paragraph 7.2.1, B.14., following.

- 9. Voice Grade 9 (VG9) Special Access Service
 - a. Description

Special Access Service VG9 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and another IC terminal location or a Telephone Company Central office which serves as an SSN Switch. The transmission interface at the End User's premises or Telephone Company Central Office is four-wire and the IC terminal location interface is four-wire. This service will support effective four-wire transmission.

b. Illustrative Application

Special Access Service VG9 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as SSN Network Trunks.

- c. Optional Features
 - C-Conditioning
 - IC specified End User premises receive level within a range acceptable many.

loss at four-wire point of interface, appli-- Improved return wire leggof effective four-wire channel cable to each tw

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By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

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- SPECIAL ACCESS SERVICE-(Continued)
 - DEC 29 1233 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)
 - 8. Voice Grade 8 (VG8) Special Access Service-(Continued)
 - e. Available Facility Interface Combinations

VG8 is available only with specific facility interface 15984 combinations as set forth in Paragraph 7.2.1, B.14.007 following. PUBLIC SERVICE COMMISSION OF MISSOUR

- 9. Voice Grade 9 (VG9) Special Access Service
 - Description

Special Access Service VG9 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and another IC terminal location or a Telephone Company Central office which serves as an SSN Switch. The transmission interface at the End User's premises or Telephone Company Central Office is four-wire and the IC terminal location interface is four-wire. This service will support effective four-wire transmission.

Illustrative Application

Special Access Service VG9 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as SSN Network Trunks.

- Optional Features
 - C-Conditioning
 - IC specified End User premises receive level within all range acceptable to the Telephone Company for effective four-wire transmission.

- Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.

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SPECIAL ACCESS SERVICE-(Continued)

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7.3 Channel Interface and Network Channel Codes-(Continued) IRUCZZIM 7.3.4 Service Designator/Network Channel Code Conversion Table-(Continued)

	Service Designator Code	Network Channel Code
	VG3	LD
	VG4	LE
	VG5	LF
	VG6	LG
	VG7	LH
	VG8	LJ
	VG9	LK
	VG10	LN
	VG11	LP
	VG12	LR .
(AT)	VGW	SE (standard)
(AT)	VGŴ	SF (improved)
	APC	PQ
	AP1	PÈ
	AP2	PF
	AP3	РJ
	AP4	PK
	WA1	WJ
	WAIT	wQ
	WA2	WL
	WA2A	WR
•	WA3	WN
	WA4	WP
	WD1	WB
	WD2	WE
	WD3	WF
	DA1	XA
	DA2	XB
	DA3	XG
	DA4	XH
	нсо	HS
	HC1	- HC
	HC1C	HD FILED
	HC2	HE .
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	HC4	001 20 1001
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SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued) MISSOURI Public Service Commission

7.3.4 Service Designator/Network Channel Code Conversion Table (Continued)

Service Designator	Network Channel	-
Code	Code	-
VG3	LD	
VG4	LE	
VG5	LF	
VG6	LG	
VG7	LH	
VG8	ĹĴ	
VG9	LK	
VG10	ĹŇ	
VG11	LP	
VG12	LR	•
APC	PQ	
AP1	PE	
AP2	PF	
AP3	PJ	
AP4	PK.	
WA1	WJ	INCLL ED
WAIT	WQ	CANCELLED
WA2	MŢ	
WA2A	wR	BANKS.#48 Bongle Commission
WA3		2.12 5.490
WA4	WP	blic Service Commission MISSOURI
WD1	WB	Service Continue
WD2	WE Pt	MISSOURI
WD3	WE	Milos
DA1	XA	
DA2	XB	
DA3	XG	
DA4	XH	
нсо	HS	The state of the s
HC1	HC	rem cm
HC1C	HD	FILED
HC2	HE	_
нс3	HF \	JUL 1 1986
HC4	HG K	
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- SPECIAL ACCESS SERVICE-(Continued)
 - 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)

Public Service Commission

- B. Voice Grade Services-(Continued)
 - 9. Voice Grade 9 (VG9) Special Access Service-(Continued)
 - d. Transmission Performance
 - C-Message Noise

The C-Message Noise shall be less than:

	Limit (dBrnCO)(
Channel Mileage (mi)	Type VI	Type V2						
0 - 50	32	38						
51 - 100	33	39						
101 - 200	35	41						
201 - 400	37	43						
401 - 1000	39	45						

- Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

Stan	dard RL	Improved	RL
ERL	5 dB	ERL 20	ďΒ
SRL	2.5 dB	SRL 13.5	dΒ

- Loss Variation

The long term loss variation from the nominal 1004 HZ EML shall not exceed +1.5 dB.

- Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall, be within -1.0 dB and +2.0 dB with reference to the loss at 1004 Hz and between 304 Hz and 3004 Hz shall occurrence.

-3.0 dB and 12.0 dB (minus equals less loss, plus equals more loss).

(1) Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type V1 parameters \sumbedge \text{Supported}, Type V2 will be provided.

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SPECIAL ACCESS SERVICE-(Continued)

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7.3 Channel Interface and Network Channel Codes-(Continued)

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7.3.5 Compatible Channel Interfaces

The following tables show the interface codes (CI's) which are compatible:

A. Metallic

Compatib]	e CI's	Compatil	ole CI's
4AH5-B**	2DC8-1	4AH6-D**	2DC8-2
4AH5≁B**	2DC8-2	2DC8-1	2DC8-2
4AH6-C**	2DC8-1	2DC8-3	2DC8-3
4AH6-C**	2DC8-2	4DS9*	2DC8-1
4AH6+D***	2DC8-1	4DS9*	2DC8-2

* 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-44, 4DS6-27

Public Service Commission * Available to customers selecting the multiplexed four-wire high capacity analog channel interface option and providing subsequent system and channel assignment data.

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ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)

Public Service Commission

- B. Voice Grade Services-(Continued)
 - 9. Voice Grade 9 (VG9) Special Access Service-(Continued)
 - d. Transmission Performance-(Continued)
 - Signal-to-C Notch Noise

The Signal-to-C Notch noise ratio shall not be less than 34 dB.

- Envelope Delay Distortion
 The Envelope Delay Distortion (EDD) shall not exceed 700 microseconds between 800 and 2600 Hz.
- Impulse Noise

The number of impulse noise counts exceeding a threshold of 67 dBrnCO in 15 minutes shall be less than 15.

- Intermodulation Distortion

The intermodulation distortion based upon the four-tone method shall be such that R2 is not less than 50 dB and R3 not less than 54 dB.

- Phase Jitter

The phase jitter over 20-300 Hz shall not exceed 3° peak-to-peak and over 4-300 Hz shall not exceed 8° peak-to-peak.

- Frequency Shift

The frequency sheet well +1 Hz.

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(CP) ACCESS SERVICES -

- SPECIAL ACCESS SERVICE-(Continued)
- 7.3 Channel Interface and Network Channel Codes-(Continued) JUN 27 1986
 - 7.3.5 Compatible Channel Interfaces-(Continued)
 - B. Telegraph Grade

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Compatil	ole CI's	Compatib	ole CI's	Compatib	le CI's
10IA8 4AH5-B***	10IA8 10IA8	4AH6-D**	4TT2-6	4DB2-43 + 4DB2-43 +	2TT2-2 4TT2-2
				4DB2-43 + 4DB2-43 +	4TT2-6 4DB2-43 +
4AH5-B**	2TT2-2	2DB2-10	10IA8	4DS9*	10IA8
4AH5-B**	4TT2-2	2DB2-10	2TT2-2	4DS9*	2TT2-2
4AH5-B**	2TT2-6	2DB2-10	4TT2-2	4DS9*	4TT2-2
		2DB2-10	2TT2-6		
4AH5-B**	4TT2-6	2DB2-43 +	10IA8	4DS9*	2TT2-6
4AH6-C**	10 IAS	2DB2-43 +	2TT2-2	4DS9*	4TT2-6
4AH6~C**	2TT2-2	2DB2-43 +	2TT2-6	2TT2-2	2TT2-2
4AH6-C**	4TT2-2	2DB2-43 +	4TT2-2	2TT2-3 ++	2TT2-2
		2DB2-43 +	4TT2-6		
4AH6-C**	2TT2-6	4DB2-10	101A8	2TT2-3 ++	4TT2-2
4AH6-C**	4TT2-6	4DB2-10	2TT2-2	2TT2-6	2TT2-6
4AH6-D**	10IA8	4DB2-10	4TT2-2	2TT2-6	4TT2-2
		4DB2-10	2TT2-6		
4AH6-D**	2TT2-2	4DB2-43 +	10IA8	4TT2-2	4TT2-2
4AH6-D**	4TT2-2	4DB2-43 +	2TT2-6		
4AH6-D**	2TT2-6			4TT2-6	4TT2-6

* 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-44, 4DS6-27

Available to existing customers only.

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[🛣] Available to customers selecting the multiplexed four wire high capacaty analog channel interface option and providing subsequent system and channel assignment data.

Supplemental channel assignment information required. Public Service Commission

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ACCESS SERVICES

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- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)
 - 9. Voice Grade 9 (VG9) Special Access Service-(Continued)
 - Available Facility Interface Combinations

VG9 is available only with specific facility interface combinations as set forth in Paragraph 7.2.1, B.14., following.

- 10. Voice Grade 10 (VG10) Special Access Service
 - a. Description

Special Access Service VG10 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an End User's premises. The standard transmission interface at the End User's premises and the IC terminal location is four-wire. This service will support effective four-wire transmission.

b. Illustrative applications

Special Access Service VG10 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Digital Data Off-Net Extension
- Voice Grade Data Facility

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OF MISSOURI

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- SPECIAL ACCESS SERVICE-(Continued)
- 7.3 Channel Interface and Network Channel Codes-(Continue Commission
 - 7.3.5 Compatible Channel Interfaces-(Continued)
 - C. Voice Grade

Compatib	le CIs	Compatib	le CIs	Compatibl	e CIs
4AB2	4A32	4 afi5-3+ 4 afi6-c+	2CT3 2CT3	4AE6-D+	4DE2
4AB2	2AC2	4AE6-D+	2GT3	4AH5-B+	4DX2
4AB2	2AC2R		5	4AH6-C+	4DX2
4432	4AC2	4A85-B+	2042	4AH6-D+	4DX2
4AB2	4AC2R	4AH6-C+	2DA2		
	•	4AH6-D+	2DA2	4A35-B+	4DY2
4AE2	4SF2	4AH5-B+	4DA2	4AH6-C+	4DY2
		4AH5-3+	4DA2S	4AH6-D+	4DY2
2AC2	2AC2	4AH6-C+	4DA2		
2AC2	4AC2	4AH6-C+	4DA2S	•	
4AC2	4AC2	4AH6-D+	4DA2		
		4A96-D+	4DA2S		
4AH5-B+	4432	4AH5-B+	6DA2		
4AH6-C+	4432	4AH5-B+	6DA2S		
4AH6-D+	4AB2	4AH6-C+	6DA2		
		4AH6-C+	6DA2S		
45-2HA	2AC2	4AH6-D+	6DA2	46-5HA#	4EA2-E
4AH5~B+	2AC2R	4AE6-D+	6DA2S	+6-5HA	4EA2-M
4AH6-C+	24C2			-	
4AH6-C+	21C2R	4AH5-B+	4DB2	4A26-C+	4EA2-2
4AH6-D+	2402	4AH6-C+	4DB2	4AH6-C+	4EA2-M
4AH6-D+	ZACZR	4 A E 6 - D +	40B2		
4AH5-B+	4AC2			4AH6-D+	4EA2-E
4AR5-B+	4AC2R	4AH5-B+	2DE2	4AH6-D+	4EA2-M
4AНб-C+	4ACS	4AH6-C+	2DE2	4AH5-B+	6EA2-E
4анб-с+	4AC2R	4AR6~D+	SDES	4AH5-8+	DEA2-M
4 A H6-D+	4AC2	4AH5-B+	4DE2	4AH6-C+ .	16BA2UE
4AH6-D+	4AC2R	4AH6-C+	4DE2	4AH6-C+	6EA2-M
				JUL	1 1986

+ Available to customers selecting the multiplexed four-wire-high capacity analog channel interface option and providing subsequent system and channel assignment data.

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ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - Public Service Commission
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)
 - Voice Grade 10 (VG10) Special Access Service-(Continued)
 - c. Optional Features
 - Central office bridging capability.
 - Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.
 - C-Conditioning
 - DA-Conditioning
 - d. Transmission Performance
 - C-Message Noise

The C-Message Noise shall be less than:

	Limit (d.	BrnCO)(I)
Channel Mileage (mi)	Type Vl	Type V2
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

- Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than:

> Elliproved RL 到了例 通過 ERL 20 dB 2.5 dB SRL 13.5 dB 1986

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(1) Where facility network conditions will support the parameters, Type V1 will be provided. Where the Type VIDDa Pameters cannot be supported, Type V2 will be provided. PUBLIC SERVICE COMMISSION OF MISSOURI

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Public Service Commission

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- SPECIAL ACCESS SERVICE-(Continued)
- 7.3 Channel Interface and Network Channel Codes-(Continued)
 - 7.3.5 Compatible Channel Interfaces-(Continued)
 - C. Voice Grade-(Continued)

Compatibl	e CI3	Compatible	Le CIs	Compatible	le CIs
4AE6-D+	6242 - E	4AH6-C+	2G\$3-C	4AH6-C+	2 <u>L</u> R2
4AE6-D+	62a2-M	4AE6-C+	2GS3-M	4AH6-D+	2 <u>1</u> .R2
		4AH6-D+	2GS2	4A35-8+	4LR2
4AE5-3+	6 2 92 - 2	4AH6-D+	2GS2-M	4AH6-C+	4LR2
4AE5-B+	6EB2-M	4AH6-D+	2ĠS3	4AE6-D+	4LR2
44E6-C+	6E32-E	4AH6-D+	2GS3-C		
4A36-C+	6E32-M	4AH6-D+	2GS3-M	4AE5-B+	2 <u>1</u> 52
4AH6-D+	6 <u>5</u> 32-E	4 <u>435</u> -3+	4GS2	4AH5-B+	2LS2-M
4AE6-D+	6232 - M	4AH6-C+	4GS2	4A∺5~B+	2LS3
4AH5-B+	Seb2-E	4AE5-D+	4GS2	4AH5-B+	2L53-M
4AE5-B+	8E32-M	4A35-B+	6G\$2	4AH6-C+	ZLS2
4AH6-C+	8532-5	4AH6-C+	6G\$2	4AH6-C+	2 <u>1</u> 52-M
4AH6-C+	8E32-M	4AH5-D+	6GS2	4AH6-C+	2LS3
4AE6-D+	8eb2-e			44H6-C+	21_53_M
4AH6-D+	8ebz-M	4AE5-B+	21.12	4AH6-D+	2LS2
		4AH5-C+	2LA2	4AH6-D+	2LSZ-M
		4AH5-D+	21.A2	4AH6-D+	2 <u>1</u> .53
				4AH6-D+	2LS3-M
		4AH5-3+	2 <u>1.3</u> 2	4AE5-B+	4LS2
		4AH6-C+	2L32	4ar5-C+	= =
		4AH6-D+	STBS	4AH5-D+	4L52
				4AH5-B+	2902
4A25-3+	2003	4A35-B+	2LC2	4AH6-C+	2N02
4AH6-C+	2G03	44E6-C+	2LC2	4AR6-D+	2NO2
4AH6-D+	2003	4AH6-D+	2LC2	4A <i>H</i> 5B+	4NO2
				4A.R5-B+	4n02-S
4ah5-b+	2GS2	4A.R5-8+	5T03	4AH6-C+	4NO2
4AH5-B+	2GS2-M	4AR6-C+	21.03		THOS-S
4 <u>4.85</u> -8+	2G\$3	4AR6-D+	2L03	4AH6-D+	ANOS TELLED
4AH5-B+	2G\$3-C			4AH6-D+	4002-5
4AH5-B+	2GS3-M			4AH5-B+	シアマフ
4AR6-C+	2 G \$2			4AR6-C+	2PR2 JUL 1 1986
4AH6-C+	2082-M	_		4AH6-D+	2PR2 86-84
4 <u>AH</u> 6-C+	2 GS 3	4AH5-B+	2LR2	4AH5-B+	Füblic Service Commission

+ Available to customer selecting the multiplexed four-wire high=capacity=analoge channel interface option and providing subsequent system and channel assignment data.

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ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service-(Continued) Public Service Commission
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)
 - Voice Grade 10 (VG10) Special Access Service-(Continued)
 - d. Transmission Performance-(Continued)
 - Loss Variation

The long term loss variation from the nominal 1004 Hz EML shall not exceed +4 dB.

- Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -2.0 dB and +10.0 dB with reference to the loss at 1004 Hz (minus equals less loss, plus equals more loss). The attenuation distortion between 504 Hz and 2504 Hz shall be within -2.0 dB and +8.0 dB with reference to the loss at 1004 Hz. The attenuation distortion between 304 Hz and 3004 Hz shall be within -3.0 dB and +12.0 dB.

- Signal-to-C Notch Noise

.The Signal-to-C Notch noise ratio shall not be less than 24 dB.

- Envelope Delay Distortion

The Envelope Delay Distortion (EDD) shall not exceed 1750 microseconds between 800 and 2600 Hz.

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(CP)ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

Compatibl	e CIs	Compatibl	e CIs	Compatibl	<u>e CIs</u>
4AH6-C+	4PR2	2CT3	8EB2-M	2DB2	2N02
4AH6-D+	4PR2			4DB2	21102
		2013	8EC2	4DB2	41102
4AE5-B+	2272-T			4DB2	4N02-S
4AH6-C+	T-SVRS	2CT3	4572		
4A#6-D+	2972-T			2DB3 -	2PR2
4AH5-B+	4R72-T	2DA2	2DA2	4DB2	2PR2
4AH6-C+	4RV2-T	4DA2	2DA2	4DB2	4PR2
4AH6-D+	4RV2-T	4DA2-S	2DA2		
		4DA2	4DA2	4003	2DE2-
4AR5-2+	2772	4DA2	4DA2-S	4003	4DE2
4анб- с +	2TF2	4DA2-S	4DA2-S		
4AR6-D+	2TF2	6DA2	2DA2	4DS9-*	4AB2
4A85-8+	4TF2	6DA2-S	2DA2		
4AE6-C+	4TF2	6DA2	4DA2	4DS9-#	2AC2
4AH6-D+	4TF2	6DA2	4DA2-S	4DS9 → ₹·	2AC2-R
		6DA2-S	4DA2	4DS9-*	4AC2
SCI3	2CT3	6DA2-S	4DA2-S	4DS9-*	4AC2-R
		6DA2	6DA2		
		6DA2	6DA2-S	4DS9-*	2013
2CT3	40 X 2	6DA2-S	6DA2-S		
				4DS9-#	2DA2
2CT3	4EA2-E	2DB2	2DA2	4DS9	4DA2
2CT3	4EA2-M	4DB2	2DA2	πDS∂~≞	4DA2~S
2013	6EA2-E	4DB2	4DA2	4DS9	6DA2
2CT3	6EA2-M	4DB2	4DA2-S	4DS9-*	6DA2-S
		4DB2	6DA2	IT.	and the second control of the second control
2CT3	6EB2-E	4DB2	6DA2-S	4DS9_#	4DB2 FILED
2CT3	6eb2-m			- 4DS9 ₹ - }.	SDES IN THE IEID
2CT3	8EB2-E	4DB2	4DB2	4DS9-#	4DE2 101 1 1986
			•	!	JUL 1 1986
				ii.	86-04

86-84 + Available to customers selecting the multiplexed four-wirephigh (capacity analog) channel interface option and providing subsequent system and channel assign ment data.

★ 4DS9-15, 4DS9-31, 4DS0-63, 4DS6,44, 4DS6-27

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ACCESS SERVICES

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- SPECIAL ACCESS SERVICE-(Continued)
 - 7.2 Technical Service Descriptions for Special Access Service (Continued) ommission
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)
 - Voice Grade 10 (VG10) Special Access Service-(Continued)
 - d. Transmission Performance-(Continued)
 - Impulse Noise

The number of impulse noise counts exceeding a threshold of 71 dBrnCO in 15 minutes shall be less than 15.

- Intermodulation Distortion

The intermodulation distortion based upon the four-tone method shall be such that R2 is not less than 27 dB and R3 not less than 32 dB.

- Phase Jitter

The phase jitter over 20-300 Hz shall not exceed 10° peak-topeak and over 4-300 Hz shall not exceed 15 peak-to-peak.

- Frequency Shift

The frequency shift shall not exceed +3 Hz.

Available Facility Interface Combinations

VG10 is available only with specific facility interface combinations as set forth in Paragraph 7.2.1, B.14., following.

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(CP) ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

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MISSUURI **Public Service Commission**

Public Service Commission

C. Voice Grade-(Continued)

Compatib	le CIs	Compatib	le CIs	Compatible	le CIs
			······································		
4DS9-*	4DX2	4DS9→*	2L03	4DX2 4DX2	6EA2-E 6EA2-H
4DS9-*	4DX5	4DS9-	ZLRZ .	-	
		4DS9-₹	4LR2		
				4DX2	6EB2-E
		4DS9-*	ZLS2	4DX2	6EB2-M
		4DS9-*	2LS2-M	4DX2	8EB2-E
4DS9-*	4EA2-E	4DS9-	2L53	4DX2	8EB2-M
4DS9	4EAZ-M	4DS9=	2LS3-M		
4DS9-*	6EA2-E	4DS9-=	4LS2	4DX2	8EC2
4DS9	6EA2-M				
		4DS9-*	2002	4DX2	2LS2
		4DS9-	41102		
4DS9-*	6EB2-E	4DS9-*	4N02-S	4 DX2	2RV2-T
#DS9-3	6EB2-M			4DX2	4RV2-T
4DS9 ~ ₹	8E32-E	4DS9-*	2222		
4DS9	M-2538	4DS9-#	4PR2	4DX2	4SF2
4DS9-	2G03	4DS9-#	2972-T	6EA2-E	4DY2
		4DS9-=	4RVZ-T	6EA2-M	#DXS
4DS9	2GS2				
4DS9	2GS2-M	4DS9-=	4SF2		
4DS9-*	2GS3				
4DS9-₹	2GS3-C	4DS9-=	2TF2		
4DS9	2GS3-M	4DS9	4TF2		
4DS9	4GS2	h===			leman =
4DS9-*	6GS2	4DX2	4DX2	HEA2-E	4EA2-E
		h	1	4EA2-E	4EA2-M
4DS9-*	ZLA2	4DX2	4DY2	4EA2-M	4EA2-M
4DS9-*	ZLB2	hama	1	6EA2-E	4EA2-E
lindo #	ST 66	4DX2	4EA2-E	6EA2-E	
4DS9-*	2 <u>1</u> .c2	4DX2	4EA2-M	6EA2-M	
				OLAZ-M	AENCAE. IN THE
				Ť.	Jul 1 1986
				N.	
89-31, 4DS	0-63, 4DS	6,44, 4DS	5,27		86-84
				., .,	

* 4DS9-15, 4DS9-31, 4DS0-63, 4DS6,44, 4DS6,27

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By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

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ACCESS SERVICES

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SPECIAL ACCESS SERVICE-(Continued)

- _โ...โรงเปฟ
- 7.2 Technical Service Descriptions for Special Access Service-(Continued) Commission
 - 7.2.1 Analog Services+(Continued)
 - B. Voice Grade Services-(Continued)
 - 11. Voice Grade 11 (VG11) Special Access Service Reserved For Future Use
 - 12. Voice Grade 12 (VG12) Special Access Service Reserved For Future Use
 - 13. Voice Grade 13 (VG13) Special Access Service
 Reserved For Future Use

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BY RS S L PUBLIC SERVICE COMMISSION OF MISSOURI

(14년 - 14년 대왕) (14년 - 14년 대왕)

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(CP)ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

JUN 27 1986 7.3 Channel Interface and Network Channel Codes-(Continues)

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

Compatib:	le CIs	Compatib.	le CIs	. Compatibl	Le_CIs
6EA2-M	4EA2-M	4EA2-E 4EA2-M	4SF2 4SF2	8EB2-M	4RV2-T
6EA2-E	6EA2-E	4EAZ-R 6EAZ-E	43F2 4SF2	6EB2-E	4SF2
6EA2-E	6EA2-M	-	4SF2	6EB2-M	4SF2
6EA2-M	6EA2-M	6EA2-M	4012	8EB2-E	4SF2
				8EB2-M	4SF2
		2770 7	hand	02B2-M	70° 2
_		8EB2-E	#DY2	ATT CO	hasa
4EA2-E	6EB2-2	M-SEBB	πDXS	SEC2	4DY2
4EA2-E	6E32-M				
4EA2-M	6EB2-E			27.00	Wasa a
4EA2-M	6EB2-M			8EC2	4EA2-E
4EA2-E	8EB2-2	8E32-E	4EAZ-E	8EC2	#EA2-M
4EA2-E	8EB2-M	8EB2-E	4EAZ-M	8EC2	6EA2-E
4EA2-M	8EB2-E	8E32-M	4EA2-E	8EC2	6EA2-M
4EA2-M	8E32-M	M-SEBS	4eaz-M		
6ÈA2-E	6EB2-E		_		*
5EA2-E	6EB2-M	6E32-E	6232-E	8EC2	9E35-2
6EA2-M	6282 - 2	6EB2-E	6E32-M	8EC2	6EB2-M
62A2-M	6EB2-M	6EB2-M	6232 - M	8EC2	8EB2-E
6EA2→E	8EB2-E	8EB2-E	6EB2-E	8EC2	8EB2-M
6EA2-E	8E32-M	8EB2-E	6232-M		→
6EA2-M	8232-2	8EB2-M	6EB2-E	6EX2→B	2G02
6E42-M	M-SE38	8EB2-M	6232 - M	6EX2-3	2G03
		8EB2-E	8E32-E		
		8E32-2	M-2838	6EX2-A	2GS2
		8EB2-M	8EB2-M	6EX2-A	2GS2-M
6EA2-E	21.52			6EX2-A	2GS3
6EA2-M	2L.52	8EB2-E	2 LS2	6EX2-A	2G\$3-C
·		8EB2-M	2L\$2	6EX2-A	2GS3-M
6EA2-E	ZRVZ-T			6EX2-A	1 1000
6EA2-M	T-SVRS	8EB2-E	ZRV2-T	6EX2-A	6GS2 [[[]
6EA2-E	4RV2-T	8EB2-M	2RV2-T	-	
6EA2-M	4RV2-T	8E32-E	4RV2-T	6EX2-B	2LA2 JUL 1 1986
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ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)

14. Available Facility Interface (FI) Combinations

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Public Service Commission

The following table shows the available FI combinations and the Voice Grade Services with which they may be ordered.

							FI Combinations							Voice Grade Service (VG)														_																				
									_	_	ΙC		_		_]	Ξr	đ	U:	se	r	_	_		1	:	2		3		4		5	(5	7		8		9	1	0	1	<u> </u>	1	2	1	3
									1	. Δ	В2							4	ΑC	2							X																					
											B 2								AC		ı						X																					
									1	ŧΑ	н6	, — ;	D ((1))			4,	AC	2							X																					
									4	ŧΑ	H6	, –]	D ([1])			2	ΑC	2	•						X																					
									4	ίA	Н6	-	C([1])			4,	A C	2							X																					
									4	ŧΑ	Н6	<u>, </u>	C((1)			2.	AC	2							X																					
									4	ίA	H 5	_]	В ((1)			4.	AС	2							X																					
														(1	-				ΑC								X																					
(AT)									4	4.A	н6	,	D ((1)			6	DΑ	.2														2	X							X						
														(1	-			6	DA	2														:	X							X						
														(1					DA															2	X							X						
(AT)									4	4 A	Ηć	, -	D ((1)			4	DA	.2													X	:	X													
Ì														Ì.	-			4	DA	2													X	:	X													
l l														Ì)				4	DA	2													X		X													
ļ														Ì.					DΑ														X															
- 1														Ì	-				DA														X															
AT)														Ì)	-			2	DA	2													X															
																										_	- I	n	ſ	١.	E	?	Ø															
_									4	4,	H	5-	D ((1)			4	DE	2	a	Į,	1	Л	((H	12		٦,	5	Œ	5																
									4	4,8	H	<u>, .</u>	C	(1)			4	DE	2	ໄດ້) [}	η	У,	۱,	رو	· (-) <u>-</u>					X															
										4 /	H.	5	В	(1)			4	DE	2	_								10	Q	ĥ		X X															
(AT)										44	H	5	D	(1)			2	DE	2				1	IJ	L	1		15	O	U		X															
1														(I				2	DE	2				Ž	2		^		_		م	(X															
(AT)									,	44	H.	5-	E	(1)			2	DE	2		_	×٤	Λ	<i>\\</i>	> '	/ ι		\geq	ٺ	\supset	-	%	Š	L					r				COURT .			-	-
																					8	۲ç V	ナ Bレ	IC	5	ER	7	E	() (၁၀	UN NO	W	(I)	ب ان	,	-									5		Цſ	킰	D)
	(1)	i	Δ.	_	4	lable only to IC's selecting										_	-									01	ır	- W	ri 1	4-	Ħ	1 o l	n _1	Cai	oac	-1+	· v											

(1) Available only to IC's selecting the multiplexed four-wire High Capacity analog facility interface option at the IC Terminal location and providing subsequent system and channel assignment data.

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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- 7.2 Technical Service Descriptions for Special Access Service-(Continued):UN Public Service Commission
 - 7.2.1 Analog Services+(Continued)
 - B. Voice Grade Services-(Continued)
 - 14. Available Facility Interface (FI) Combinations

The following table shows the available FI combinations and the Voice Grade Services with which they may be ordered.

FI Comb	inations				٧o	ice	Grade	Service (VG)	
IC	End User	1.	2	3	4	5	6 7	NOETLE DE	<u>13</u>
4AB2	4AC2		X				[BB]	Nim Ren	
4AB2	2AC2		X					OCT 15 1984	
4AH6-D(1) 4AH6-D(1) 4AH6-C(1) 4AH6-C(1) 4AH5-B(1) 4AH5-B(1)	4AC2 2AC2 4AC2 2AC2 4AC2 2AC2		X X X X X				1	OF MISSOURI	
4AH6-D(1)	6DA2							X	
4AH6-C(1)	6DA2						X	X	
4AH5-B(1)	6DA2						Х	X	
4AH6-D(1) 4AH6-C(1) 4AH5-B(1)	4DE2 4DE2 4DE2				-	X X X			

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(1) Available only to IC's selecting the multiplexed four-wire High Capacity analog facility interface option at the IC Terminal location and providing subsequent system and channel assignment data.

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(CP)ACCESS SERVICES

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SPECIAL ACCESS SERVICE-(Continued)

JUN 27 1986

7.3 Channel Interface and Network Channel Codes-(Continue)

MISSUUKI Public Service Commission

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

Compatib:	le CIs	Compat1	ble CIs	Compatib	le CIs
6EX2+B	2LB2	2L02	21.52	4NO2	2DA2
		2L02	2L\$3	4NO2-S	2DA2
6EX2-B	2LC2	2L03	21.52	4NO2	4DA2
		4LO2	2LS2	4102	4DA2-S
		4LO2	2LS2-H	4NO2-S	4DA2
SEX2-B	2L03	4L02	2LS3	4N02-S	4DA2-5
		4L02	2LS3-M	4NO2	6DA2
62X2-B	2LR2	4L02	4LS2	4002	6DA2-S
6EX2-8	4LR2			4N02-S	6DA2
		2L.R2	2LR2	4N02-S	6DA2-S
6ex2-a	2LS2	4LR2	2LR2	_	
6EX2-A	21.52-M	4LR2	4LR2	4 NO2	2DE2
6EX2-A	2LS3			4N02-S	2DE2
6EX2-A	21_53-H	2 <u>1</u> ,52	2002	4N02	4DE2
6ex2-a	2كـ14	2LS2	4G02	4N02-S	4DE2
÷		2LS3	2G02		
2002	2GS2	21_53	4G02	2002	2NO2 .
2002	2GS3-C	4LS2	2G02	2N03	2N02
2003	2 G \$2	4LS2	4G02	2N02 '	4N02-S
2003	2GS3			4802	2N02
#G02	2GS2	2LS2	2LA2	4NO2	41102
#G05	2GS2~M	4LS2	2LA2	4NO2	4NO2-S
4G02	2GS3			4NC2-S	4NC2-S
4G02	2G\$3-C	21.52	2LB2		
4G02	2GS3-M	4152	2LB2	21103	2932
4G02	4GS2			4N02	4PR2
4GO2	6GS2	2LS2	2LC2		
h ====		41.52	2LC2	0-2VR4	2RV2-T
4G\$2	2G02			4 RV2 +0	4RY2-T
4G\$2	2G03	4LS2	2L02	1	
222	01.00	41.52	2L03	4SF2	ZACZ FOR FERD
2GS2	2L02			4SF2	2AC2-R5 [5 []
2G\$2	4L02	2N02	2DA2	4SF2	HAC2
2GS3-C	2L02	2002	4DA2	4SF2	4ACZ-R11 1 1986
2GS3-C 4GS2	4L02	2002	4DA2-S	h coo	
4GS2 4GS2	2L02 4L02	2N02	6DA2	4SF2	4DY2 86-84
4432	4602	2N02	6DAZ-S	4SF2	Page Service Commission

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ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service (Continued)
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)

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14. Available Facility Interface (FI) Combinations-(Continued) SOUR

FI Comb	Voice Grade						Se	Public Service Commission							
IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13	
4AH6-D(1)	4DX2									X					
4AH6-C(1)	4DX 2									X					
4AH5-B(1)	4DX 2									X					
4AH6-D(1)	9DY2			X				X	X						
4AH6-D(1)	6DY2			X				X	X						
4AH6-D(1)	4DY2			X				X	X						
4AH6-C(1)	9DY2			X				X	X						
4AH6-C(1)	6DY2			X				X	X						
4AH6-C(1)	4DY2			X				X	X						
4AH5-B(1)	9DY2			X				X	X						
4AH5-B(1)	6DY2			X				X	X						
4AH5-B(1)	4DY2			X				X	X						
4AH6-D(1)	9EA2			X				x	X						
4AH6-D(1)	6EA2-E			X				X	X						
4AH6-D(1)	6EA2-M			X				X	X	X					
4AH6-D(1)	4EA2-E			X				X	X						

BY COMMISSION OF MISSOURI

(1) Available only to IC's selecting the multiplexed four-wine High Capacity analog facility interface option at the IC Terminal location and providing subsequent system and channel assignment data.

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Public Service Commission

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

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ACCESS SERVICES

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- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service (Gontinued) Commission
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)
 - 14. Available Facility Interface (FI) Combinations-(Continued)

FI Comb	inations				Vo	ice	Gr	ade	Se	rvi	ce	(VG)		
IC	End User	1	2	3	4	<u>5</u>	<u>6</u>	7	8	9	10	11	12	<u>13</u>
(AITE D(1)	/ DVo									v				
4AH5-D(1)	4DX2									X				
4AH6-C(1)	4DX2									X				
4AH5-B(1)	4DX2									X				
4AH6-D(1)	9DY2			X				X	х					
4AH6-D(1)	6DY2			X				X	X					
4AH6-D(1)	4DY2			X				X	X		•			
· . •				X				X	X		_	ns.	$I = I_{c}$	<u>.</u> (W
4AH6-C(1)	9DY2								Α	n 1	M_{ij}	15 11	باطاد	
4AH6-C(1)	6DY2			X				X	-₩	18 /	Ma	و سارا	-	
4AH6-C(1)	4DY2			X				X	\mathbf{X}_{I}	محارا		ر	11146	4
4AH5-B(1)	9DY2			X				X	X		OC.	715	120	
4AH5-B(1)	6DY2			X				X	X		ÛΩ	L	2/.	۔ ماکا
4AH5-B(1)	4DY2			X				X	X		15	2 K	5	MISSION
•							•			٧œ		BVIC	E CON	//···-
4AH6-D(1)	9EA2			X				X	X	נום. נום	BLIC S	SER I	USKOUN	•
4AH6-D(1)	6EA2→E			X				X	X	R =		€.		
4AH6-D(1)	6EA2-M			Х				X	X	X				
4AH6-D(1)	4EA2-E			X				X	X					

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(1) Available only to IC's selecting the multiplexed four-wire High Capacity analog facility interface option at the IC Terminal location and providing subsequent system and channel assignment data.

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(CP)ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.3 Channel Interface and Network Channel Codes-(Continued) JUN 27 1986
 - 7.3.5 Compatible Channel Interfaces-(Continued)
 - C. Voice Grade-(Continued)

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Compati	ble CIs
4572 4572	2GS2
	2GSZ-M
4SF2	2GS3
4SF2	2GS3-C
4SF2	2GS3-M
4SF2	4GS2
4SF2	6GS2
4SF2	2LA2
4SF2	2L32
4SF2	2LC2
4SF2	2L03
4SF2	2L.R2
4SF2	4L.R2
4SF2	2LS2
4SF2	2LS2-M
4SF2	2LS3
4SF2	2LS3-M
4SF2	4LS2
4SF2	2RV2-T
4SF2	4RV2-T
2TF3	2TF2
4TF2	2TF2
4TF2	4TF2

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ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service (Continued)
 - 7.2.I Analog Services-(Continued)

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B. Voice Grade Services-(Continued)

MISSUURI

FI Comb	inations				Vo	ice	Gr	ade	Se	FV	ce=(AC) Sala	ce u	ommi	SSION
IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13	
4AH6-D(1)	4EA2-M			х				x	x						
4AH6-C(1)	9EA2			X				X	X						
4AH6-C(1)	6EA2-E			X				X	X						
4AH6-C(1)	6EA2-M			X				X	X	X					
4AH6-C(1)	4EA2-E			X				X	X						
4AH6-C(1)	4EA2-M			X				X	X						
4AH5-B(1)	9EA2			X				X	X						
4AH5-B(I)	6EA2-E			X				X	X						
4AH5-B(1)	6EA2-M			X				X	X	X					
4AH5-B(1)	4EA2-E			X				X	X						
4AH5-B(1)	4EA2-M			X				X	X						
1197 5/13	0			-					77						
4AH6-D(1)	8EB 2-E			X				X	X	12					
4AH6-D(1)	8EB 2-M			X				X	X	X					
4AH6-D(1)	6EB 2-E			X				X	X						
4AH6-D(1)	6EB 2-M			X				X	X						
4AH6-C(1)	8EB 2-E			X				X	X						
4AH6-C(1)	8EB 2-M			X				X	X	X					
4AH6-C(1)	6EB 2-E			X				X	X						
4AH6-C(1)	6EB 2-M			X				X	X						
4AH5-B(1)	8EB 2-E			X				X	X						
4AH5-B(1)	8EB 2-M			X				X	X	X					
4AH5-B(1)	6EB 2-E			X			_	X.	χ						
4AH5-B(1)	6EB 2-M		re f			E	7	遇。	凹						
4AH6-D(1)	2GO 2	x	(U) (F	a) UC	l G		_								
4AH6-C(1)	2GO 2	X				1	198	ĥ							
4AH5-B(1)	2GO 2	X		Jl	ال	Ļ	150	.0	_						
	2002		_	کہ	کو	_		ξ¯	7	_					
4AH6~D(1)	6GS2(2)		BY) 🖈	\supset	عنيد		MASS.	SIOI	-					
4AH6-D(1)	4GS2		PUE	LIK	SERV	NCE MISS	ÇŲN ∶OLI®I	wys.							
4AH6-D(1)	2G\$3		-	X	QP	Wto	~	X							
4AH6-D(1)	2GS 2	X		X				X							

(1) Available only to IC's selecting the multiplexed four-wire High Capacity analog facility interface option at the IC Terminal location and pr subsequent system and channel assignment data.

(2) This facility interface combination is applicable with Centrex C.O. Service only. OCT 15 1984

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Public Service Commission 5

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

ACCESS SERVICES

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- UEU
- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)
 - 14. Available Facility Interface (FI) Combinations-(Continued)

FI Comb	oinations		•		Vo	ice	Gr	ade	Se	rvi	ce' (VG)		
IC	End User	1	2	3	4	<u>5</u>	6	7	8	9	10	11	12	13
4AH6-D(1)	4EA2-M			X				x	X					
4AH6-C(1)	9EA2			X				X	X					
4AH6-C(1)	6EA2-E			X				X	X					
4AH6-C(1)	6EA2-M			X				X	X	X				
4AH6-C(1)	4EA2-E			X				X	Х					
4AH6-C(1)	4EA2-M			X				X	X					
4AH5-B(1)	9EA2			X				X	X					
4AH5-B(1)	6EA2-E			X				Х	X					
4AH5-B(1)	6EA2-M		-	X				X	X	X				
4AH5-B(1)	4EA2-E			X				X	X					
4AH5-B(1)	4EA2-M			X				X	X					
4AH6-D(1)	8EB2-E			Х				X	X					
4AH6-D(1)	8EB2-M			X				X	X	X				
4AH6-D(1)	6EB2-E			X				X	X					
4AH6-D(1)	6EB2-M			X				X	X					
4AH6-C(1)	8EB2-E			X				X	X					
4AH6-C(1)	8EB2-M			X				X	X	X				
4AH6-C(1)	6EB2-E			X				X	X					
4AH6-C(1)	6EB2-M			X				X	X					
4AH5-B(1)	8EB2-E			X				X	X					
4AH5-B(1)	8EB2-M			X			- C	છો ⊂	X	X				
4AH5-B(1)			_		ลฐ	' R	11_11	以	X		•			
4AH5-B(1)	6EB2-M	θ		เบษ	B		יפו	X	X					
4AH6-D(1)	2 GO2	Х	,	Ωſ	T	51	1984	A _	1					
4AH6-C(1)	2G02	X		Û	ĽÍ	101		ど	/	T		Γ.	:-	
4AH5-B(1)	2 G O2	X		18	Y _	K	<u>' </u>	MISS	10N	Ì			L 2	٠.,
4AH6-D(1)	4GS2		⊵, βΥ PUF	SLIX	SERV	ICE (OUB) OW	X		! ;\		JAH	- 1	íSD.
4AH6-D(1)			-	X	·~·			X		1			_ 9	53
4AH6-D(1)	2G S 2	X		X.				X		jė T	outsti		~ 4	, , ,

(1) Available only to IC's selecting the multiplexed four-wire High-Capacity analog facility interface option at the IC Terminal location and providing subsequent system and channel assignment data.

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

OCT 23 1987

- 7.3 Channel Interface and Network Channel Codes-(Continued) MISSOURI
 Public Service Commission
 - 7.3.5 Compatible Channel Interfaces-(Continued)
 - C. Voice Grade-(Continued)

WAL Serving Office Supervisory Signaling	Available WAL Channel Interfaces

LO	2LS2, 2LS3, 4LS2, 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-44, 4DS6-27
GO	2GS2, 2GS3, 2GS3-C, 4GS2, 4GS2-C, 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-44, 4DS6-27

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Public Service Commission

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ACCESS SERVICES

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SPECIAL ACCESS SERVICE-(Continued)

OCT 1 3 1987

7.3 Channel Interface and Network Channel Codes-(Continued)

MISSOUR!

7.3.5 Compatible Channel Interfaces-(Continued)

Public Service Commission

C. Voice Grade-(Continued)

(AT)	WAL Serving Office Supervisory Signaling	Available WAL Channel Interfaces
	LO	2LS2, 2LS3, 4LS2, 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-44, 4DS6-27
(AT)	GO	2GS2, 2GS3, 2GS3-C, 4GS2, 4GS2-C, 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-44, 4DS6-27

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Public Service Commission
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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

JUN 27 1986

MISSUURI Public Service Commission

(RT)

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1 1986

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ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service—(Continued)
- 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)

AUG 14 1004

14. Available Facility Interface (FI) Combinations-(Continued) [6] SSOUR

	FI Comb	FI Combinations				Vo	ice	Gr	ade	e se rviseic (Vsdice Comm is							
	IC	End User	1	2	3	4	<u>5</u>	6	7	8	<u> </u>	-0 	<u>i-l</u>	12	13	,	
(AT)	4AH6~C(1)	6GS2(2)			X				x								
	4AH6-C(1)	4GS 2			X				X								
	4AH6-C(1)	2GS3			X				X								
	4AH6-C(1)	2GS 2	X		X				X								
(AT)	4AH5-B(1)	6GS2(2)		•	X				X								
•	4AH5-B(1)	4GS2			X				X								
	4AH5-B(1)	2GS 3			X				X								
	4AH5-B(1)	2G\$ 2	X		X				X								
	4AH6-D(1)	2LA2		X					x								
	4AH6-C(1)	2LA2		X					X								
	4AH5-B(1)	2LA2		X					X								
	4AH6-D(1)	2LB 2		x					X								
	4AH6-C(1)	2LB 2		X					X								
	4AH5-B(1)	2LB 2		X					X								
	4AH6-D(1)	2LC2		X					X								
•	4AH6-C(1)	2LC2		X					X								
	4AH5-B(1)	2LC2		X					X								
	4AH6-D(1)	2L03		X				X									
	4AH6-D(1)	2LO2	X														
	4AH6-C(1)	2L03		X				X									
_	4AH6-C(1)	2LO2	X					ez- 41			_						
	4AH5-B(1)	2L03		X.	肾板	/ 17		X	11	15	in)						
	4AH5-B(1)	2LO2	X		س) ال	u ur.) (V)	()	שו בי		رق						
	4AH6-D(1)	4LR 2		X		JL	IL 1	,	1981	j							
	4AH6-D(1)	2LR2		X		۵.			_	/							
	4AH6-C(1)	4LR2		X _B	9	تصهر	-1)	LS	5	SS							
	4AH6-C(1)	2LR2		Χ̈́P	UBLI	C SE	RVIC	E C	2MV	ussi	ON						
	4AH5-B(1)	4LR2					OF M	ISSOI	JRI .	3.							
	4AH5-B(1)	2LR 2		X													

(1) Available only to IC's selecting the multiplexed four-wire High Capacity analog facility interface option at the IC Terminal location and providing subsequent system and channel assignment data.

OCT 15 1984

(2) This facility interface combination is applicable with Centrex C.O. Service only.

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7. SPECIAL ACCESS SERVICE-(Continued)

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- 7.2 Technical Service Descriptions for Special Access Service-(Continued) URI

 Public Service Commission
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)
 - 14. Available Facility Interface (FI) Combinations-(Continued)

FI Comb	oinations				۷o	ice	Gr	ade	Se	rvi	ce (VG)		
IC	End User	1	2	<u>3</u>	4	5	6	7	8	9	10	11	12	13
4AH6-C(1)	4GS2			X				X						
4AH6-C(1)	2GS3			X		•		X						
4AH6-C(1)	2GS2	X		X				X						
4AH5-B(1)	4G\$2			X				X						
4AH5-B(1)	2 GS3			X				X						
4AH5-B(1)	2GS2	X		X				X						
4AH6-D(1)	2LA2		X					X						
4AH6-C(1)	2LA2		X					X						
4AH5-B(1)	2LA2		X					X					n (भीड
4AH6-D(1)	2LB2		х					x	ſſ	Ma	MN		<u>L</u> L1	
4AH6-C(1)	2LB2		X					X	IJ	りば	י טען	,		
4AH5-B(1)	2LB2		X					X			OG.	15	198 ¹	}
4AH6-D(1)	2LC2		X					X			ato	N/	5	λ
4AH6-C(1)	2LC2		X					X		'ا س	1	يي		MISSION
4AH5-B(1)	2LC2		X					X		BUB P. Le	LIC SE	OL MY. BAICE	SOUN	
4AH6-D(1)	2L03		X				X							
4AH6-D(1)	2L02	X												
4AH6-C(1)	2L03		X				X							
4AH6-C(1)	2L02	X		•										
4AH5-B(1)	2L03		X				X							
4AH5-B(1)	2L02	X												
4AH6-D(1)	4LR2		X						 }	~ #13×	٠-,			
4AH6-D(1)	2LR2		X						ı		_	ΙĹ	5	,
4AH6-C(1)	4LR2		X						}		•			÷
4AH6-C(1)	2LR2	•	X						ı.		JA	4 -	1 (8)	1
4AH5-B(1)	4LR2		X						Ĭ,					
4AH5-B(1)	2LR2		X							<u>.</u>			- 2	5 3
•										Llar	15 C a		• •	

(1) Available only to IC's selecting the multiplexed four-wire High Capacity analog facility interface option at the IC Terminal location and providing subsequent system and channel assignment data.

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ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

REGEIVED

- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - AUG 1 1 1004

7.2.1 Analog Services-(Continued)

MISSOURI

B. Voice Grade Services-(Continued)

Public Service Commission

14. Available Facility Interface (FI) Combinations-(Continued)

	FI Combi	Voice Grade Service (VG)													
	IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	<u>13</u>
¥	1.000 0 (4)	42.00		4.	_				47						
	4AH6-D(1)	4LS 2		X	X				X						
	4AH6-D(1)	2LS 2	X	X	X				X	X					
	4AH6-D(1)	2LS 3		X	X				X						
	4AH6-C(1)	4LS2		X	X				X						
	4AH6-C(1)	2LS 2	X	X	X				X	X					
	4AH6-C(1)	2LS 3		X	X				X						
(RT)	, ,														
	4AH5-B(1)	4LS2		X	X				X						
	4AH5-B(1)	2LS2	X	X	X				X	X					
	4AH5-B(1)	2LS 3		X	X				X						
	4AH6-D(1)	4NO2	X	X			X	X	Х		X				
	4AH6-D(1)	2NO2	X	X			X		X						
	4AH6-C(1)	4NO2	X	X			X	X	X		X				
	4AH6-C(1)	2NO2	X	X			X		X						
	4AH5-B(1)	4NO2	X	X			X	X	X		X				
	4AH5-B(1)	2NO2	X	X			X		X						
	4AH6-D(1)	4RV2-T			X				X						
(RT)	4AH6-D(1)	2RV2-T			X										
•	4AH6-C(1)	4RV2-T			X				X						
RT)	4AH6-C(1)	2RV2-T			X										
	4AH5-B(1)	4RV2-T			X			_	_Х.	n 17	· r=	(A)			
(RT)	4AH5-B(1)	2RV2-T			X	Gl			E						

JUL 1 1986

PUBLIC SERVICE COMMISSION
(1) Available only to IC's selecting the multiplexed for the High Capaci analog facility interface option at the IC Terminal location and providing subsequent system and channel assigment data. OCT 15 1984

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OCT 1 5 PAblic Service Commission

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ACCESS SERVICES

DEC 20 1003

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service-(Continued) Commission

- 7.2.1 Analog Services-(Continued)
- B. Voice Grade Services-(Continued)
 - 14. Available Facility Interface (FI) Combinations-(Continued)

FI Comb	inations				Vo	ice	Gr	ade	Se	rvi	ce_(VG)_		
IC	End User	1	2	3	4	<u>5</u>	6	7	8	9	10	11	12	<u>13</u>
4AH6-D(1) 4AH6-D(1) 4AH6-D(1) 4AH6-C(1) 4AH6-C(1) 4AH6-C(1) 4AH5-B(1) 4AH5-B(1) 4AH5-B(1) 4AH5-B(1)	4LS2 2LS2 2LS3 4LS2 2LS2 2LS3 6LS2 4LS2 2LS2 2LS3	x x	× × × × × × × ×	X X X X X X X X X X X X X X X X X X X	=		2	х х х х х х х х х	х х	0			ĒL	LEO
4AH6-D(1) 4AH6-D(1) 4AH6-C(1) 4AH6-C(1) 4AH5-B(1) 4AH5-B(1)	4NO2 2NC2 4NO2 2NO2 4NO2 2NO2	X X X X X	X X X X	x		X X X X X	x x x	X X X X X		x x	PUBLIC	SERY	PICE C MISSO	OMMISSION
4AH6-D(1) 4AH6-C(1) 4AH6-C(1) 4AH5-B(1) 4AH5-B(1)	2RV2-T 4RV2-T 2RV2-T 4RV2-T 2RV2-T	٠		X X X X				X X X X		F -	y# =t		ŀ.	ت.

(1) Available only to IC's selecting the multiplexed four-wire High Capacity analog facility interface option at the IC Terminal location and providing subsequent system and channel assigment data.

Issued: DEC 2 9 1983

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ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

AUG 1 1 (20)

- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)

Public Service Commission

- B. Voice Grade Services-(Continued)
 - 14. Available Facility Interface (FI) Combinations-(Continued)

	FI Com	binations		Voic	e Grad	e Se	Service (VG)						
	IC	End User	1 2 3	4 5	<u>6</u> 7	8	9 10	11	12	13			
(RT)													
`Ì´													
(RT)													
(AT)	4DB 2	2DA2		X									
` `	4DB 2	4DA2		X X	X		Х						
(AT)	2DB2(2)	2DA2		X									
	4== 0	!											
(47)	4DB 2	6DA2			X		Х						
(AT)	2DB 2	2NO2		X									
(+ m)	4DB 2	4NO2			X								
(AT)	4DB 2	2 NO 2		X									
	4DD3	4DE 2		X									
(CT)	4DD3	2DE 2		X									
	4DS9(1)	4A C2	X										
	4DS9(1)	2AC2	X										
	4DS9(1)	6DA2			х		Х						
AT)	4DS9(1)	4DA2		X									
(AT)	4DS9(1)	2DA2		Х									
	4DS9(1)	4DE 2	GANI	a腔¶v		ĺ							
(AT)	4DS9(1)	2DE 2		可已经		ע							
(212)	7007(1)	EDUZ	9 0000	Λ									
	4DS9(1)	4DX 2	JUL		186		X						
			BY 272	10	- <u>-</u> d		-		40000				
			BY STE		<u>5. 70</u>		1	[C]	ות ה	己们			

(1) See Paragraph 7.3.3, following, for lextraction (1) See Paragraph 7.3.3, following, for lextraction (1)

(AT) (2) For VG-6, available only when new legs are added to existing one-we point circuits.

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OCT 1 5 1984blic Service Commission

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ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)

Public Service Commission

- B. Voice Grade Services-(Continued)
 - 14. Available Facility Interface (FI) Combinations-(Continued)

FI Con	nbinations				Vo	ice	Gr	ade	Se	rvi	ce (VG)		
IC	End User	1	2	3	4	<u>5</u>	6	7	8	9	10	11	12	13
6DA2	6DA2										X			
6DA2	4DA2										X			
4DA2	6DA2										X			
4DA2	4DA2										X			
-4DB2	6DA2						x				x			
4DB2	4NO2						X							
4DD3	4DE2		,			X								
2DD3	2DE2					X								
/Den (1)	(400	v												
4DS9(1)	4AC2	X												
4DS9(1)	2AC2	X												
4DS9(1)	6DA2						X				X			
4DS9(1)	4DE2					X								
4DS9(1)	4DX2	_	ار ال	ı N	图	(II)				X				

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(1) See Paragraph 7.3.3, following, for explanation.