ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

(RT)

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff Section 7 3rd Revised Sheet 31 Replacing 2nd Revised Sheet 31

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>	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 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.

Issued: March 26, 1993 Effective: April 11, 199	93
---	----

CANCELLED October 1, 2021 Missouri Public Service Commission JI-2022-0045 By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company St. Louis, Missouri

No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose 2nd Revised Sheet 31 Replacing 1st Revised Sheet 31 of canceling this tariff. ACCESS SERVICES RECEIVED 7. SPECIAL ACCESS SERVICE-(Continued) SEP 2 5 1989 7.2 Service Descriptions-(Continued) A 11 11 11 11 11 11 Public Service Commission 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: CI 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 **VD-3** 28 kHz to 44 kHz Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2. CANCELLED D. Optional Features and Functions APR 11 1993 🙀 BY 3rd R.S 1. Central Office Multiplexing Public Service Commission a. Mastergroup to Supergroup MISSOURI 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. <u>EII EN</u> tssued: SEP 2 5 1989 9CT 1 Effective: 1989 UCT

(CT)

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

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

(CP)ACCESS SERVICES

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

CI

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

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

OCT 1 1989 BY 2 R S. # 3) BY 2 R S. # 3)

Public Service Commission MISSOURI

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

JUN 27 1986

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.

北王 1 1986 86-84 Public Service Commission

Issued:

Effective: JUL 1 1986

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

Access Services Tariff Section 7 Ist_Revised_Sheet_31 Replacing Offermal Sheet_31 JUN 2 7 1986 MISSUUKI Public Service Commission No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 Original Sheet 31

BECEIVED

MISSOURI

Public Service Commission

ACCESS SERVICES

- 7. 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)
 - 5. Voice Grade 5 (VG5) Special Access Service-(Continued)
 - d. Transmission Performance
 - C-Message Noise

The C-Message Noise shall be less than:

	Limit (dBrnC	
<u>Channel Mileage (mi)</u>	Type V1	Type V2
0 50		
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:



Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff Section 7 2nd Revised Sheet 32 Replacing 1st Revised Sheet 32

ACCESS SERVICES

	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.
(AT)	The following table shows the technical specifications packages with which the optional features, BSEs and functions are available.
	Available with Technical Specifications Package WA-

	<u>1</u>	<u>2</u>	<u>2A</u>	<u>3</u>	<u>4</u>
Central Office					
Multiplexing:					
-Mastergroup to Supergroup			Х		
-Supergroup to Group		Х			
-Group to Voice	Х				
-Group to DS1(1)					

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

Issued:	March 26, 1993	Effective:	April 11, 1993
CANCELLED October 1, 2021 Missouri Public Service Commissi JI-2022-0045	South	SON, Assistant Vice western Bell Telepho St. Louis, Missou	

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.5 Wideband Analog Service-(Continued)

- D. Optional Features and Functions-(Continued)
 - 1. Central Office Multiplexing-(Continued)
 - d. Group to DSI

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

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>2A</u> 4 1 3 Central Office Multiplexing: CANCELLED -Mastergroup to Supergroup Х APR 11 1993 # 32 BY 2 *** R.5 # 32 Х -Supergroup to Group -Group to Voice Х -Group to DS1(1) Public Service Commission MISSOURI FULED 胡林 ① 1986 (1) Requires two channels with technical specifications package W Service Commission a WAlT service. JUN 27 1986 JUL 1 1986 Effective: Issued: By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri



Access Services Tariff

Replacing Original Sheet 32

1st Revised Sheet 32

Section 7

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Issued:

Access Services Tariff Section 7 Original Sheet 32

MECENVED

1.4830URI

Public Service Commission

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

- DEC 20 (CC) 7.2 Technical Service Descriptions for Special Access Service-(Continued)
- 7.2.1 Analog Services-(Continued)
- B. Voice Grade Services-(Continued)
 - 5. 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	Singing
	<u>Return Loss</u>	<u>Return Loss</u>
		•
Standard Two-Wire		
Interface		
(Return Loss)	5 dB	2.5 dB
Four-Wire Interface	16 dB	'11 dB
(Equal Level Echo Path		
Loss)		

Effective Four-Wire Transmission

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



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

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

Southwestern Bell Telephone Company d/b/a AT&T Missouri Section 7 3rd Revised Sheet 33 Replacing 2nd Revised Sheet 33

(CP)ACCESS SERVICES

2nd Revised Sheet 33 Replacing 1st Revised Sheet 33

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

No Supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 1st Revised Sheet 33 Replacing Original Sheet 33

(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

	Package WD-		
	<u>1</u>	<u>2</u>	<u>3</u>
Parameter			
Error-Free Seconds	Х	Х	Х

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
WB-50S	50.0 kbps, synchronous

Issued: June 27, 1986

Effective: July 1, 1986

CANCELED November 20, 2014 Missouri Public Service Commission JI-2015-0173

By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company St. Louis, Missouri No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 Original Sheet 33

DEC 2 9 1203

Public Service Commission

ACCESS SERVICES

7. 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)
 - 5. Voice Grade 5 (VG5) Special Access Service-(Continued)
 - d. 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	dB	SRL 13.5	dB

- 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

The number of Gon a torgshold 53 of 67 dBrnCO in 15 minutes shall be less than 15 JUL 1 1986 Public Service Con

Issued: DEC 2 9 1983

PUBLIC SERVICE COMMISSION OF MERECLIVE: JAN 0.1 1984

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

ph

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

No Supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 3rd Revised Sheet 34 Replacing 2nd Revised Sheet 34

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

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.

	Available with Technical Specifications Package WD-			
	<u>1</u> <u>2</u> <u>3</u>			
Key Activated Transfer Arrangement	Х	X	Х	

Issued:	March 26, 1993
	By A D R

CANCELLED

October 1, 2021

Missouri Public Service Commission JI-2022-0045

(AT)

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

Effective:

April 11, 1993

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Ac	ces	s Service	es Tar:	iff
		5	Section	1 7
	2nd	Revised	Sheet	34
Replacing	1st	Revised	Sheet	34

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.6 Wideband Data Service-(Continued)

ALLCOTT Public Service Commission

RECEIVED

SEP 2.5 1989

(CT)

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 Technica Specifications Package Wi				
	<u>1</u>	<u>2</u>	<u>3</u>		
Key Activated Transfer Arrangement	X	х	х		

CANCELLED

APR 11 1993 BY 3 M R.S. 34 Public Service Commission MISSOURI

FILED

Issued: SEP 2 5 1989

1989 Effective: DCT 1 1989 0CT 1 1989 By R. D. BARRON, President-Missouri Divisionilic Service Commission Southwestern Bell Telephone Company St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

.....

(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.





No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 Original Sheet 34

DEC 20 1223

+ Public Service Commission,

ACCESS SERVICES

- 7. 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)
 - 5. 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

同日日 JAN - 1 1934

ADC 24 PUBLIC SERVICE COMMISSION OF MISSOURI

GANBELLED

JUL 1 1986

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

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

(CP)

(RT)

ACCESS SERVICES

\circ
4
÷.
È
Ļ
<u> </u>
2
05/01/2024 - TN-2024-0278 - JI-2024-014
0
<u></u>
2.2
<u> </u>
8
~
\sim
0
Y
4
~
~
0
\sim
16
>
<u> </u>
-
1.2
~+
2
2
0
\sim
<u> </u>
ò
2
10
~
0
_
≍
ō
sio
ssion
issior
nissior
missior
nmissior
mmissior
ommissior
Commission
Commissior
Commission
e Commissior
ce Commission - 05/01/2024 - TN-2024-0278 - JI-2024-0
ice Commission
vice Commission
ervice Commission
ervice Commission
Service Commissior
Service Commission
c Service Commissior
ic Service Commission
olic Service Commission
Iblic Service Commission
ublic Service Commissior
^D ublic Service Commission
Public Service Commission
ri Public Service Commissior
uri Public Service Commissior
ouri Public Service Commissior
ouri Public Servi
D - Missouri Public Servi

7. SPECIAL ACCESS SERVICE-(Continued)

- 7.2 Service Descriptions-(Continued)
 - 7.2.7 MegaLink Data(1) 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 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.

B. Technical Specifications Packages

	Package DA-					
Parameter	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Error-Free Seconds	Х	Х	Х	Х	Х	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.

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.

B. Technical Specifications Packages

	<u>F</u>	Pack	age	e DA	<u>\-</u>	
Parameter	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Error-Free Seconds	Х	Х	Х	Х	Х	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.

Service Commission JI-2021-0210 (RT)

No Supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 7th Revised Sheet 35 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.

- (CT) This service is classified as competitive.
 - B. Technical Specifications Packages

	Package DA-						
Parameter	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	
Error-Free Seconds	Х	Х	Х	Х	Х	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.

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

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

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

(AT)

(AT)

(AT)

(AT)

Access Services Tariff Section 7 6th Revised Sheet 35 Replacing 5th Revised Sheet 35

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE- (Continued)

jan - 9 1995

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service

ued)	MAR	29	2002	
By Public	.Serv	Rec	539 ommiss	MO. PUBLIC SERVICE COMM.
1 10 10 10 10	- MIS	SOL	JRI	

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 customerdesignated 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	1	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
(TA)	Error-Free Seconds	x	х	x	x	х	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: F	EB 0 9 1955	IFN
	By HORACE WILKINS,	JR., President-Mise	ouri	
		1 Bell Telephone .s, Missouri	FE	B - 9 1995

MISSOURI Public Service Commission

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 5th Revised Sheet 35 Replacing 4th Revised Sheet 35

ACCESS SERVICES

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

cing 4th Revised Sheet 35

RECEIVED

SEP 291992

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.



B. Technical Specifications Packages

		Packag	e DA-	FEB 9-1995
Parameter	<u>1</u>	2	<u>3</u>	Public Service Commission MISSOURI
Error-Free Seconds	х	х	Х	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.

Issued: **OCT 01 1992**

Effective: JAN 1 0 1993

FILED

MO. PUBLIC SERVICE COMM

ADDE

By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company St. Louis, Missouri 93-116

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff Section 7 4th Revised Sheet 35 Replacing 3rd Revised Sheet 35

RECEIVED

AUG 9 1991

MISSOURI Public Service Commission

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 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 LED associated with the MegaLink Data Channel at the customer press JAN 101993 JAN 101993 BV 2005 # 35

B. Technical Specifications Packages

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

Issued: AUG 0 9 1991

Effective: SEP 3 0 1991 By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company Public Service Commission St. Louis, Missouri

(RT) (RT)

(CT)

(CT)

(CT)

No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose 3rd Revised Sheet 35 of canceling this tariff. Replacing 2nd Revised Sheet 35 ACCESS SERVICES RECEVED 7. SPECIAL ACCESS SERVICE-(Continued) SEP 2 5 1989 7.2 Service Descriptions-(Continued) VIESCULT! (CT) 7.2.7 MegaLink Data Service Public Service Commission A. Basic Channel Description (CT)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 ((1)) 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 (CT) 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. SEP 3 0 1991 Package PAF 47 R.S. 35 B. Technical Specifications Packages Public Service Commission MISSOURI Parameter 1 2 Error-Free Seconds X Х Х 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 Technical Reference PUB 62310.

Voltages which are compatible with MegaLink Data Service are delineated in

((T))

SEP 2 5 1989 Issu**ed:**

Technical Reference PUB 62507.

907 1; 1989₀₀ Effective: By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company Public Service Commission St. Louis, Missouri

FILED

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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

ACCESS SERVICES

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

MISSOURI

RECEIVED

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.

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 Specificatio	CANCELLEU				
			Pack	age DA-	
	OCT 1 1989 R S #35	2			
Parameter	Burn Comm	~r	<u>2</u>	<u>3</u>	4
Error-Free Seconds	Public Service (UR)	х	X	Х	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 Technical Reference PUB 62310.

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



JUN 22 1988

Public Service Commission

(CP)

Β.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

(CP)ACCESS SERVICES

7. 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

	•	<u> </u>	Package DA-		
Parameter		<u>1</u>	<u>2</u>	<u>3</u>	4
Error-Free Seconds		х	Х	х	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 Technical Reference PUB 62310.

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

		CANCELLED CANCELLED		FILED
		JUL & 1500 35 BY 2000 Commission Public Gervice Commission MISSOURI	sion	JUI 1 1986 86-84
Issued: JUN	27 1986	PUDID MISSOURI Effective:	JUL	1 1986



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

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 Original Sheet 35

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

DEC 29 1003

Public Service Commission

iL i^D

- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)
 - 6. Voice Grade 6 (VG6) Special Access Service-(Continued)
 - c. 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
 - d. Transmission Performance
 - C-Message Noise

The C-Message Noise shall be less than:

	Limit (dBrnCO)(1)		
<u>Channel Mileage (mi)</u>	Type V1	Type V2	
0 - 50	32	38	
51 - 100	33	39	
101 - 200	35	41	
201 - 400	37	43	
401 - 1000	39	45	



(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

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

- 7.2 Service Descriptions-(Continued)
- 7.2.7 MegaLink Data(1) Service-(Continued)
- C. Channel Interfaces

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

Bit Rate

(RT)

(RT)

(CP)

<u>CI</u>	Bit Rate	
	((R
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 s D. Service to Service Through Connec	set forth in Technical References at the end of Paragraph 7.2. t Arrangement	
services. The through connect will The through connect will be provision kbps (CC). The ordering customer	f two subtending digital data channels derived from DS1 multiplexed be provisioned in lieu of a typical MegaLink Data channel termination oned for all MegaLink Data speeds; 4.8, 9.6, 19.2, 56 kbps and 64 (must provide channel assignments for both. Channel mileage is are terminated in two separate digital Hubs.	i. (R

- 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 (AT) 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) No Supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 6th Revised Sheet 36 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

(AT)

JI-2021-0210

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
		By HORACE WILKINS, JR.,	, President-Missouri
CANCELLED June 30, 2021 Missouri Public Service Commissi	ion	Southwestern Bell 7 St. Louis, Miss	•

... - --- - -- --- ---

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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

ACCESS SERVICES

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

MISSOURI Public Service Commission

RECEIVED

MAR 29 1993

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.

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.

CANCELLED

- (AT) Ε. Optional Features, BSEs and Functions
 - Central Office Bridging BSE Capability 1.
 - 2. Transfer Arrangement

FEB 9-1995 BY 64 R.S.# 36

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 FILEED

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

APR 11 1993 92 - 304MO. PUBLIC SERVICE COMM.

(AT)

No supplement to this tariff vill be issued except for the purpose of canceling this tariff.

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

ACCESS SERVICES

FEB 2 0 1990

MISSOURI

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

7.2.7 MegaLink Data Service-(Continued)

C. Channel Interfaces

T)

(AT)

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
DU56	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. CANCELLED

(FC) E. Optional Peatures and Functions

1. Central Office Bridging Capability

2. Transfer Arrangement

An arrangement that affords the customer an additional measure protection and/or flexibility in the use of their access channel(a) on a lxN basis. The arrangement are been appreciated and the second 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

```
Effective: MAR 2 6 1990
```

FILED

APR 11 1993 # 36 BY 573 R. 5, 36

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

MAR 26 1990

Public Service Commission

Public Service Commission

RECEIVED

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

. . .

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

ACCESS SERVICES

RECEVED

SEP 2 5 1989

AGESSUN!

Public Service Commission

FLED

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(CT) 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:

CI	<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.



Issued: SEP 2 5 1989

1989 Effective: OCT 1 1989 By R. D. BARRON, President-Missouri Division 89-14 Southwestern Bell Telephone Company Public Service Commission St. Louis, Missouri No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

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 CANCELLED available for a Digital Data channel:

CI	<u>Bit Rate</u>	
DU-24	2.4 kbps	OCT 1 1989 BY 320 RS. #36
DU-48 DU-96	4.8 kbps 9.6 kbps	Public Scrvice Commission
DU-56	56.0 kbps	MISSOLIRI

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

Optional Features and Functions D.

> Central Office Bridging Capability 1.

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.

(MT)

(MT)

ssued:		1.0			Effective:	NGT 19 198	37
ssued:	SEP	18	1987				FILED
			Ву	Southvestern	President-Miss Bell Telephone	e Company	0CT 19 1987
				St.	Louis, Missouri	Ĺ	Public Service Commis

Access Services Tariff Section 7 2nd Revised Sheet 36 Replacing 1st Revised Sheet 36

RECEIVED

SEP 17 1987

Public Service Commission

MISSOURI

......

· · -

.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

(CP)ACCESS SERVICES

- 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:

CI	Bit Rate
DU-24 DU-48 DU-96 DU-56	2.4 kbps 4.8 kbps 9.6 kbps
00-00	56.0 kbps

Compatible channel interfaces are set forth in Paragraphy.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.

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

		Available with Technical Specifications Package DA-				
	Central Office Bridging	<u>1</u>	2			
	Capability	Х	Х	X Xu: 4 1000		
	Transfer Arrangement	Х	Х	x x 1 1986		
				86-84		
				Public Service Commissio		
Issued:	JUN 27 1986	Effective:	JU	And the second of the second s		
	BT D BADDON I	Procident-Micco	wri Di	ivision		



REGEIVED JUN 27 1986 **WISSAAKI** Public Service Commission

Replacing Original Sheet 36

Access Services Tariff

1st Revised Sheet 36

Section 7

OCT 14 1987 BY 2 min R. S. 7736 Public Service Commission

MISSOURI

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

DEC 2 9 1203

Section 7

RECEIVED

Public Service Commission

Access Services Tariff

Original Sheet 36

7.2 Technical Service Descriptions for Special Access Service (Continued)

- 7.2.1 Analog Services-(Continued)
- B. Voice Grade Services-(Continued)
 - 6. Voice Grade 6 (VG6) Special Access Service-(Continued)
 - d. 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	Improved	RL
ERL	5	dB	ERL 20	dB
SRL	2.5	dB	SRL 13.5	dB

- 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 Digtortion⁹(EDD) shall not exceed LEU 700 microseconds between 800 and 2600 Hz.

- Impulse Noise BY At (2, 3) PUBLIC SERVICE COMMISSION 83-253 The number of impulse noise counts exceeding a threshold (2017, 35) of 67 dBrnCO in 15 minutes shall be less than 15

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

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

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.7 MegaLink Data(1) 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 4.8, 9.6, 19.2 and 56.0 kbps primary channels. It is available as a point-to-point (RT) 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-							
	Ī	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>		
Central Office Bridging Capability Transfer Arrangement Secondary Channel Capability	Х	Х	Х	x x x	Х	x		

(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.

(CP)
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

(AT)

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.

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

						vailable with Technical ications Package DA-			
(AT)		<u>1</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		
(AT)	Capability	Х	Х	Х	Х	Х			

Issued:	January 9, 1995
---------	-----------------

CANCELLED June 30, 2021 Missouri Public Service Commission JI-2021-0210 By HORACE WILKINS, JR., President-Missouri Southwestern Bell Telephone St. Louis, Missouri

Access Services Tariff Section 7 3rd Revised Sheet 36.01 Replacing 2nd Revised Sheet 36.01

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service-(Continued)

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

(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>	<u>4</u>	
Central Office Bridging Capability Transfer Arrangement Secondary Channel Capability	X X X	X X X	x x x	x x x	

CANCELLED

FEB 9-1995 BY 474 R.S. # 36.01 Public Service Commission MISSOURI

> APR 1 1 1993 92 - 30 4 MO. PUBLIC SERVICE COMM

FILED

Issued: MAR 2 6 1993

Effective:

APR 1 1 1993

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

RECEIVED

MAR 29 1993

MISSOURI

Public Service Commission

(AT)

2nd Revised Sheet 36.01 Replacing 1st Revised Sheet 36.01

ACCESS SERVICES

ntinued)
ł

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service-(Continued)

B. Optional Features and Functions (Continued)

3. Secondary Channel Capability

Secondary Channel capability provides for an additional low-speed digita. 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.

		h Technic s Package	chnical ckage DA-	
	<u><u>1</u></u>	<u>2</u>	<u>3</u>	4
Central Office Bridging				
Capability	X	X	X	X
Transfer Arrangement Secondary Channel	X	X	X	X
Capability	X	X	X	X

APR 11 1993 BY 3 Arr R.S. 36. 01 Public Service Commission

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

Public Service Commission

RECEIVED

Section 7

Access Services Tariff

FEB 20 1990

MISSOURI Public Service Commission

(FC)

Access Services Tariff Section 7 1st Revised Sheet 36.01 Replacing Original Sheet 36.01

ACCESS SERVICES

RECEIVED

7.2 Service Descriptions-(Continued)

7. SPECIAL ACCESS SERVICE-(Continued)

(CT)7.2.7 MegaLink Data Service-(Continued)

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.

			Technical Package DA-		
	<u>1</u>	2	<u>3</u>	<u> </u>	
Central Office Bridging					
Capability	Х	Х	Х	Х	
Transfer Arrangement Secondary Channel	x	X	Х	х	
Capability	х	X	X	X	



FILED

OCT 1 1989

Issued: <u>SEP</u> 2 5 :539

JET 1 By R. D. BARRON, President-Missouri Division Dic Service Commission Southwestern Bell Telephone Company St. Louis, Missouri

Effective:

SEP 2 5 1989

MISSOUN

Public Service Commission

Access Services Tariff Section 7 Original Sheet 36.01

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 Digital Data Service-(Continued)

Optional Features and Functions (Continued) D.

(NR) Secondary Channel Capability 3.

> 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.

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

CANCELLED Public Scrylee Commission MISSOURI

Issued: OCT 19 1987 Effective: SEP 18 1987 FILED By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company OCT 19 1987 St. Louis, Missouri Public Service Commission

RECEIVED

SEP 17 1987

MISSOURI **Public Service Commission**

(NR)

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)(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

	F	Package HC-				
Parameters	<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)

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.

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-				
Parameters	<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.

Missouri Public

Service Commission JI-2021-0210 Effective: April 19, 2009 Filed Missouri Public Service Commission JI-2009-0676

(RT)

No Supplement to this tariff will be issued except for the purpose of canceling this tariff. 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.

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-				
Parameters	<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: 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

(RT)(FC)

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

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

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

Missouri Public

REC'D FEB 2 0 2002

Service Commission

CANCELLED

2 2003

ssio**n**

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

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, (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 Hub at 1.544 Mbps transmission, or (g) between a Network Reconfiguration Service 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.

Package HC

1

Х

High Capacity Service is classified as competitive.

B. Technical Specifications Packages

Parameters

Error-Free Seconds

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.

0

(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.

ssued: I	February 20, 2002	Effective: March 22; 2002; see
	By JAN NEWTON, President-Missour Southwestern Bell Telephone, L.P., d/b/a Southwestern Bell	
	St. Louis, Missouri	FILED MAR 2 9 2002

Service Commission

(CT)

Section 7

Access Services Tariff No supplement to this tariff will be issued except for the purpose 9th Revised Sheet 37 of canceling this tariff. Replacing 8th Revised Sheet 37 ACCESS SERVICES CANCELLEN SPECIAL ACCESS SERVICE-(Continued) 7. RECEIVED MAR 2 9 2002 7.2 Service Descriptions-(Continued) MKO AUG 26 1994 7.2.8 High Capacity Service By 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.

Β. Technical Specifications Packages

(FC)

(FC)

(AT)

(AT)

	Package HC-				
Parameters	<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 Terrone Company designated Hubs. The customer must provide system and assignment data.

Issued: AUG 2 6 1994 Effective: SEP 2 & 1005EP 2 6 1994 By M. H. SCHULTEIS, Executive Director-External Affairs Southwestern Bell Telephone MISSOURI St. Louis, Missouri Public Service Commission

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service

RT)

(RT)

RECEIVED

AUG 25 1993

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.

CANCELLED Technical Specifications Packages В. Package HC-SEP 261994 BY JUL R. S. 37 Public Service Commission 3 0 1 Parameters MISSOURI X Error-Free Seconds

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.

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

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 7th Revised Sheet 37 Replacing 6th Revised Sheet 37

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service

A. Basic Channel Description

Pres and the Public Service Commission

and the second second

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.

0

1

Х

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

CANCELLED

Package HG

Public Se

1C

B. Technical Specifications Packages

Par	amet	ers

(AT)

(AT)

Error-Free Seconds

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.

 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.



No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 6th Revised Sheet 37 Replacing 5th Revised Sheet 37

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

- 7.2 Service Descriptions-(Continued)
- 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, 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.

B. Technical Specifications Packages

 Package HC

 0
 1
 1C
 2
 3
 4

Parameters

Error-Free Seconds

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

Х

JAN 101993 BV 74 R.S. # 37

 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

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

Effective: 🗠

RECEIVED

AUG 9 1924

MISSOURI Public Service Commission

FILED

SEP 3 0 1991

Tublic Service Commissic-

(RT) (RT)

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

RECEIVED

MAY 29 1991

MISSOUR!

Public Service Commission

ł

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

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, 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-		
•	0	1	$\frac{10}{10} = \frac{52}{10} \times \frac{100}{10} \times 100$
Parameters			BY 6 12 Service Commission
Error-Free Seconds		X	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.

Issued: JUN 0 4 1991

Effective: AUG 0 5 1991

FILED

By R. D. BARRON, President-Missouri Division AUG 5 1991 Southwestern Bell Telephone Company St. Louis, Missouri Jublic Service Commission

(AT) (AT)

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service

RECEIVED

MISSOURI Public Service Commission

A. Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps(l) 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 BC-					
Parameters	<u>0</u>	1	<u>1C</u>	2	<u>3</u>	<u>4</u>
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

AUG 2 1991 BY <u>STARS # 37</u>

(CT)

(1) Available only as a channel of a 1.544 Mbps facility between for viete for viete for viete for viete for viete for a company designated hubs. The customer must provide system and MMSGOURI 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

Public Service Commission

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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

ACCESS SERVICES

RECENTED

7. SPECIAL ACCESS SERVICE-(Continued)

SEP 2 5 1989

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.

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-					
Parameters	<u>o</u>	<u>1</u>	<u>1C</u>	2	<u>3</u>	<u>4</u>	
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 specifications contained in Technical Reference PUB 62411 CELLED is designed, manufactured and maintained to conform with the

MAR 26 1990 BY 4 P S # 31 Public Service Commission MISSOURI

(CT) (CT)

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

Issued: 0EP 2 5 1989

BCT 1 - ¹989⁰001 -By R. D. BARRON, President-Missouri Divisibilic Service Commission Southwestern Bell Telephone Company St. Louis, Missouri

Effective:

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 2nd Revised Sheet 37 Replacing 1st Revised Sheet 37

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

JUN 22 1988

MISSOURI Public Service Commission

RECEIVED

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.
 - B. Technical Specifications Packages

CANCELLED					
CANCE	· · · ·	Packag	e HC-		
Parameters By 32 Rs.#37 By 32 R	1	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Parameters BY 3 K South Mise	sion				
Error-Free Seconds NAISSOURI	х				

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:
JUN ⁻² 2 1988 By R. D. BARRON, Pre	JUL 8 1988 esident-Missouri Division JUL 8 1988
Southwestern Be	ell Telephone Company Dis, Missouri Public Service Commissio

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Service	es Taritt
5	Section 7
lst Revised	Sheet 37
Replacing Original	Sheet 37
h	

REGEIVED

JUN 27 1986

MISSUUKI Public Service Commission

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

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, 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.

B. Technical Specifications Packages

JUN 27 1986

	Package HC-						
Parameters	<u>0</u>	<u>1</u>	<u>1C</u>	2	<u>3</u>	4	
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 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 Technical PD ference PUB 62411.



(1) Available only as a channel off a 1,544 Mbps facility between two Telep 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 data.

 86-84

Issued:

By R. D. BARRON,	Pres	ident-Misso	ouri	Division
Southwestern	Bell	Telephone	Com	pany
St. L	ouis,	Missouri		

Effective:

1 1986

JUL

ACCESS SERVICES

DEC 2 9 1903

郎尼で民国につ

Access Services Tariff

nOriginal Sheet. 37

Section 7

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Technical Service Descriptions for Special Access Service (Continued)

ي م ا

- 7.2.1 Analog Services-(Continued)
- B. Voice Grade Services-(Continued)
 - 6. 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

JAN 71 1980 1986 ⊃ [b]: PUBLIC SERVICE COMMISSION OF MISSOURI

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

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

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>CI</u>	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.

A 64.0 Kbps channel is available as a channel(s) of a I.544 Mbps facility to a Telephone Company Hub.
 Effective June 30, 2021, 64.0 Kbps will no longer be available for purchase by new or existing (AT) 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 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>CI</u>	Bit Rate
	DS-15(1)	1.544 Mbps (DSl)
(RT) (RT)		
	DS-44	44.736 Mbps (DS3)

(RT)

JI-2021-0210

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
CANCELLED June 30, 2021 Missouri Public Service Commissio	Southwe	DN, Assistant Vice Presic estern Bell Telephone Co St. Louis, Missouri	

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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

> CI Bit Rate 1.544 Mbps (DS1) DS-15(1) 274.176 Mbps (DS4) DS-27 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.

AT) Service to Service Through Connect Arrangement D.

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.

CINCELLED

SEP 25 1993 6 th R.S.# 38 Public Service Commission MISSOURI

(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

(AT)

(MT)

Effective: MAR 2 6 1990

FILED

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

MAR 26 1990

Public Service Commission

RECEIVED

FEB 20 1990

MISSOURI Public Service Commission

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff Section 7 4th Revised Sheet 38 Replacing 3rd 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: CANCE = CI Bit Bate



1.544 Mbps (DS1) 274.176 Mbps (DS4) 3.152 Mbps (DS1C) 44.736 Mbps (DS3) 6.312 Mbps (DS2)

1989

Bit Rate

- (CT) 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.

Effective:

(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

By R. D. BARRON, President-Missouri Division ublic Service Commission

RECEIVED

SEP 2 5 1989

MISCOURI Public Carvies Cominission

Southwestern Bell Telephone Company St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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

MISSOURI 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)		

BYERS #38

Compatible channel interfaces are set for the Faragraph 7.3.5, H., following. OCT 1 1989

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

Automatic Loop Transfer BY HS EDG 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: Effective: FILED JUL 8 1988 JUN 2 2 1988 By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company JUL 8 1988 St. Louis, Missouri နန္နင္နန္နင္ Public Service Commission

RECEIVED

JUN 22 1988

(CP) (CP)

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

(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 Bublic Service Commission available for a High Capacity channel:

<u></u>	Bit_Rate	~ •
DS-15(1)	1.544 Mbps (DS1)	CANCELLED
DS-27	274.176 Mbps (DS4)	
DS-31	3.152 Mbps (DS1C)	111 8 1900 . 70
DS-44	44.736 Mbps (DS3)	-005420
DS-53	6.312 Mbps (DS2)	JUL 8 1988 BY 372 R.S. # 38 BY Juice Commission

Access Services Tariff

REGEIVED

JUN 27 1986

WIZZORKI

Replacing_1st_Revised_Sheet_38-

2nd Revised Sheet 38

Section 7

Compatible channel interfaces are set forth in Paragraph 7. 3590)JRI following.

- 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 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 Aspare 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. B 6 - 84 Dublic Service Commission

Issued:

JUN 27 1986

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

Effective:

JUL

1 1986

7.

(RT)

		P.S.C. MONO. 30		
No supplement tariff will be except for the of canceling t	issued purpose			Access Services Tariff Section 7 lst Revised Sheet 38 cing Original Sheet 38
		ACCESS SERVICES		REGEIVED
	CESS SERVICE-(Co	-		1
7.2 Technica	l Service Descri	ptions for Special Ac	cess Ser	rvice-(Continued) (2 1834)
7.2.1 Analog	g Services-(Cont	inued)		Inssour:
B. Voice G	rade Services-(C	ontinued)		Public Service Commission
7. Voi	ce Grade 7 (VG7)	Special Access Servi	ce-(Cont	tinued)
а.	Description-(Co	ntinued)		
		four-wire and the IC his service will supp mission.		
b.	Illustrative Ap	plications		
	-	Service VG7 is suitab ired to provide intra s:		-
	- PBX Off-Premi - Foreign Excha - Foreign Excha - PBX Tie Trunk - SSN Tie Trunk	nge Trunk (Closed End nge Line (Closed End) S)	ation
c.	Optional Featur	es		
	transmission - C-Conditionir - DA-Conditioni - IC specified	ng End User's premises m	enises. eceive	re
		JUL 1 1986 BY CLS SERVICE COMMISSION OF MISSOURI	à	FNLED OCT 15 1984
Issued: AUG	1 5 1984	Effective:	OCT 1	Bubba Service Commission

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

ACCESS SERVICES

7. 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

GANGELLED 0CT 1 5 1984

Access Services Tariff

812(6)21

•Original_Sheet_38

DEC 20 (JUG

Section 7

- Improved return loss for effective two-wire/UBLIC SERVICE COMMISSION transmission at the End User's need to be a service 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.



DEC 2 9 1983 Issued:

JAN 0 1 1984 Effective:

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

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.

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

Service Commission JI-2012-0208

(RT) (RT)				
(FC)		a. DS3 to DS1		
(RT) (RT)		•	at converts a 44.736 Mbps chann ital time division multiplexing.	el to 28 DSl
	Issued:	August 27, 1993	Effective:	September 27, 1993
I	CANCELL December 9, Missouri Pu	ED 2011	BERTSON, Assistant Vice Presic Southwestern Bell Telephone Co St. Louis, Missouri	

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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)
- (AT) Ε. Optional Features, BSEs and Functions

RECEIVED

MAR 291993

MISSOURI Public Service Commission

(AT) 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 spar line, if required, is not included as part of the option. CANCELED

- (AT) 3. Central Office Multiplexing BSE
 - DS4 to DS1 a.

BY 6 # R.S# 39 An arrangement that converts a 274.176 Mbps channel, termission 168 DS1 channels using digital time division multiplex MISSOURI

DS3 to DS1 Ь.

> An arrangement that converts 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 DS1 channels using digital time division multiplexing.

Issued: MAR 2 6 1993

(C)

Effective:

SEP 25 1993

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

VPR 11 1993 304 พก ธิบธิบ

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 4th Revised Sheet 39 Replacing 3rd Revised Sheet 39

RECEIVED

FEB 2 0 1990

MISSOURI Public Service Commission

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

(FC)

1. Automatic Loop Transfer

B. Optional Features and Functions

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

APR 11 1993 BY 5th R.S.#39

An arrangement that converts a 274.176 Mbps champedic Service Commission 168 DS1 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 DS1 channels using digital time division multiplexing.

(MT)

Issued: FEB 2 2 1990

Bffective: MAR 2 6 1990

MAR 26 1990

FILED

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

Public Service Commissio

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

SEP 2 5 1989

RECEIVED

7.2 Service Descriptions~(Continued)

7.2.8 High Capacity Service-(Continued)

D. Optional Features and Functions-(Continued)

- 3. Central Office Multiplexing
 - a. DS4 to DS1

Public Service Commission MAR 26 1990 BY 4 R Sat 31 Public Service Commission

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 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.

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 MegaLink Data, Metallic Service or WATS Access Lines.

f. DS1 to DS0

SEP 2 5 1989

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

Effective:

FILED

0CT 1 1980

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

(CT) (RT)

[ssued:

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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

5.#39

CANCELLED

NAISSOURI

OCTAL

ACCESS SERVICES

RECEIVED

OCT 1 3 1987

MISSOURI Public Service Commission

SPECIAL ACCESS SERVICE-(Continued) 7.

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

D. Optional Features and Functions-(Continued) Public Service Commission

- Central Office Multiplexing 3.
 - a. DS4 to DS1

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

DS3 to DS1 **b**.

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

DS2 to DS1 с.

> 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 DS1 to the Hub can also be used for a Digital Data, Program Audio, Metallic Service 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. FILED

> OCT 16 1987 10-87-42 Public Service Commission

Issued: OCT 1 4 1987

(AT)

Effective: 0CT 1.6 1987.

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

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

(CP)ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued) 7.
- 7.2 Service Descriptions-(Continued)
 - 7.2.8 High Capacity Service-(Continued)
 - D. Optional Features and Functions-(Continued)
 - Central Office Multiplexing 3.
 - DS4 to DS1 a.

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 OCT 16 1987

c. DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to say and the formation DS1 channels using digital time division multiplevine time for Commission DS1 channels using digital time division multiplexing. Service Commission PS1 to DS1 .

d.

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 .-

RIP 1 1986 86-84 UNIU SEAFCE COMMISSION JUL L=1-1986

Access Services Tariff

Replacing Original Sheet 39

JUN 2 7 1986

WIZZUNKI

Public Service Commission

1st Revised Sheet 39

Section 7

Issued: 0.11 27 226

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

Effective:

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

DEC 20 (000

Original Sheet 39

GECEVEN

Section 7

Access Services Tariff

Public Cu

JAN 71 1984

83-253

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)
 - 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 (dBrnCO)(1) Channel Mileage (mi) Type V1 Type V2 0 -50 32 38 51 - 100 33 39 101 - 200 35 41 201 - 400 43 37 401 - 100039 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 MISSOUR

(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

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

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.
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

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.

August 18, 2012

Missouri Public Service Commission JI-2013-0048

Access Services Tariff Section 7 5th Revised Sheet 40 Replacing 4th Revised Sheet 40

ACCESS SERVICES

	7. SPEC	IAL ACCESS SERVICE-(Continued)
	7.2 Ser	vice Descriptions-(Continued)
	7.2.8	High Capacity Service-(Continued)
	E. O	ptional Features, BSEs and Functions-(Continued)
	3.	Central Office Multiplexing BSE-(Continued)
(RT) (RT)		
(FC)		b. DSI 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.
	Issued:	August 27, 1993Effective:September 27, 1993
	CANCE	Southwastern Pall Talanhona Company

St. Louis, Missouri

(AT)

(AT)

Access Services Tariff Section 7 4th Revised Sheet 40 Replacing 3rd Revised Sheet 40

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

RECEIVED

MAR 29 1993

- (TA) MISSOURI E. Optional Features, BSEs and Functions-(Continued) Public Service Commission
 - 3. Central Office Multiplexing BSE-(Continued)

DS1C to DS1 d.

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

DS1 to Voice e.

> 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

An arrangement that converts a 64.0 kbps channel to SEP 25 1993 subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps or five 9.6 kbps channels using digital time division cth R. Public Service Commission 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.

Issued: MAR 2 6 1993

Effective:

APPELED

APR 11 1995

CANCELLED

MISSOURI

₽/H0

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company 92 - 301 St. Louis, Missouri MO. PUBLIC SERVICE COMM.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff Section 7 3rd Revised Sheet 40 Replacing 2nd Revised Sheet 40

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued) COT 5 1982

MISSOURI

41992

- 7.2 Service Descriptions-(Continued)
- 7.2.8 High Capacity Service-(Continued)
 - E. Optional Features and Functions-(Continued)
 - 3. 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. 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, 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 APR 11 1993 # 40 five 9.6 kbps channels using digital time division BY 4th R.S. multiplexing. Public Service Commission

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.

DEC - 4 1992

Effective: 5 1992

Issued:

OCT - 5 1992 By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company St. Louis, Missouri

(AT)

Access Services Tariff Section 7 2nd Revised Sheet 40 Replacing 1st Revised Sheet 40

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

(FC) E. Optional Features and Functions-(Continued)

FEB 20 1990

RECEIVED

MISSOURI Public Service Commission

- 3. 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 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

CANCELLED

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. **Public**

DEC 4 1992 BY 3rd R.S.

Public Service Commission MISSOUR

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.

Issued: FEB 2 2 1990

(MT) AT)

(A'T)

Bffective: MAR 2 @ 1990

FILED

By R. D. BARRON, President-Nissouri Division Southvestern Bell Telephone Company St. Louis, Missouri Put MAR 26 1990

Public Service Commission

Access Services Tariff Section 7 3rd Revised Sheet 40.01 Replacing 2nd Revised Sheet 40.01

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.

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

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

(CP)

Access Services Tariff Section 7 2nd Revised Sheet 41.01 Replacing 1st Revised Sheet 41.01

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

(RT)

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.

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

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

CANCELED August 18, 2012 Missouri Public Service Commission JI-2013-0048

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 MISSOCIAL 1st Revised Sheet 49 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 Origin1 Sheet 62 1st Revised Sheet 63 2nd Revised Sheet 64 through 2nd Revised Sheet 67

ACCESS SERVICE

(MT)

SPECIAL ACCESS SERVICE-(Continued)

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

CANCELLED

DEC 4 1992 BY 2 *** R.S ** 41. °' Public Service Commission MISSOURI

FILED

JUN 6 1990

Public Service Commission-

Issued: MAY 0 7 1990

Effective: JUN 0 6 1990

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

(CP)ACCESS SERVICES

- 7. 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.



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

Issued: JUN 27 1986

Effective: JUL 1 1985

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



Access Services Tariff

Access Services Tariff Section 7 Original Sheet 40

DEC 2 9 1023

Public Service Commission

REGEI

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued) 7.

- 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)
 - 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 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")

Issu e d:	DEC 2 9 1983	BY Ch R. S. 40 PUBLIC SERVICE COMMISSION OF MISSOURI Effective: JAN 0 1 1984	
		JUL 1 1986 83 - 2	53
		GANGELLED FALLE	1
			 1 :

Access Services Tariff Section 7 2nd Revised Sheet 40.01 Replacing 1st Revised Sheet 40.01

RECEIVED

MISSOURI

Public Service Commission

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

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.

CANCELLED



FILED

APR 1 1 1993 92 - 304 MO. PUBLIC SERVICE COMM.

Issued: MAR 2 6 1993

Effective:

APR 1 1 1993

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

MAR 29 1993

(AT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff Access Services Tariff Section 7 1st Revised Sheet 40.01 Replacing Original Sheet 40.01 RECEIVED

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

APR 2 0 1990

MISSOURI

Public Service Commission

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

E. Optional Features and Functions-(Continued)

(MT)

(AT)

(TA)

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.

CANCELLED

APR 11 1993 # BY 2 m R.S. 40.01 Public Service Commission MISSOURI

FILED

JUN 6 1990

Public Service Commission.

Issued: MAY 0 7 1990

Effective: JUN 0 6 1990

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

Automatic Loop

E. Optional Features and Functions-(Continued)

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

0

1

Access Services Tariff Section 7 Original Sheet 40.01

Available with Technical Specifications Package HC-

2

1C

RECEIVED

FEB 2 0 1990

MISSOURI Public Service Commission

3

<u>4</u>

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri MAR 26 1990

Public Service Commission.

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>	
Transfer Central Office Multiplexing:		Х		
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 Interface(2)		x x x x x x x x		(CP)

- (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. (AT)

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 Central Office Multiplexing:		Х	
DS3 to DS1			Х
DSI to Voice		Х	
DSI to DSO		Х	
DSO to Subrate(1) Transfer Arrange-	Х		
ment Clear Channel		Х	
Capability Extended Superframe		Х	
Format Power Over the		Х	
Interface(2)		Х	

- (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.

Access Services Tariff Section 7 6th Revised Sheet 41 Replacing 5th Revised Sheet 41

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			Х
DSI to Voice DSI to DSO DSO to Subrate(1) Transfer Arrange-	X	X X	
ment		Х	
Clear Channel Capability Extended Superframe		X	
Format		Х	
Power Over the Interface(2)		X	

(1) 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.

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

(AT) existing customers.

(CP)

Issued:	August 26, 1994	Effective:	September 26, 1994	
	By M. H. SCHULT	TEIS, Executive Direc	tor-External Affairs	

H. SCHULTEIS, Executive Director-External Affa Southwestern Bell Telephone St. Louis, Missouri

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-

Issued:	AUG 2 7 1993		E	ffective:	SEP 2 7 1993
(1) Ava Com	ilable only on a channel o pany Hub.	f a 1.54	4 Mbps	facility to	o a TelephoneMISSOURI Public Service Commissio
					SEP 2 7 1993
					FILED
	Interface		Х		
	Format Power Over the		X		
	Capability Extended Superframe		X		
	ment Clear Channel		Х		Public MISSUUM
	DSO to Subrate(1) Transfer Arrange-	Х	۲ <i>۲</i>		SEP 261994 G TJ. R.S. # 41 BY G Service Commission MISSOURI
	DS1 to DS0	v	X		SEP IR R.S. # 4
	DS1 to Voice		X		261994
	DS3 to DS1			X	CANCELLED
	Multiplexing:				TILED
	Central Office				
	Automatic Loop Transfer		х		
		<u>0</u>	<u>1</u>	<u>3</u>	

St. Louis, Missouri

RECEIVED

Section 7

AUG 25 1993

MISSOURI Public Service Commission

1

Replacing 4th Revised Sheet 41

Access Services Tariff

5th Revised Sheet 41

Access Services Tariff Section 7 4th Revised Sheet 41 Replacing 3rd Revised Sheet 41

ACCESS SERVICES

RECEIVED

MAR 29 1993

MISSOURI Public Service Commission i.

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

(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	<u>3</u>	<u>4</u>
Automatic Loop						
Transfer		X				
Central Office						
Multiplexing:						
DS4 to DS1						X
DS3 to DS1					Х	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		Х				
DSl to DSO		Х				
DSO to Subrate(1)	X					
Transfer Arrange-	-					-
ment		X			CANCE	LLED
Clear Channel						
Capability		X				-
Extended Superframe					9	5 1993
Format		X			SEP 6	~ c#41
Power Over the					(Th)	5.0
Interface		х		B	Y	A Commiss
				Pub	ic Seivi	5 199] ?.S.*+(Se Commiss SOURI
				• -	WIN	-

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

Issued: MAR 2 6 1993 By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri MO. PUBLIC SERVICE COMM.

(AT)

(AT)

Access Services Tariff Section 7 3rd Revised Sheet 41 Replacing 2nd Revised Sheet 41

ACCESS SERVICES

RECEIVED

7. SPECIAL ACCESS SERVICE-(Continued)

APR 2 0 1990

I.

Ì.

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

MISSOURI Public Service Commission

E. Optional Features and Functions-(Continued)

(MT)

(AT)

(A'T)

(MT)

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

			ilable w cificati			-
	<u>0</u>	<u>1</u>	<u>1C</u>	2	<u>3</u>	<u>4</u>
Automatic Loop Transfer		x				
Central Office Multiplexing: DS4 to DS1 DS3 to DS1 DS2 to DS1 DS1 to Voice DS1 to Voice DS1 to DS0 DS0 to Subrate(1) Transfer Arrange- ment Clear Channel Capability Extended Superframe Format Power Over the Interface	X	X X X X X X X		SY 4th	1993 . RS	H
				F	ILED	
				JUN	6 199	0
			Pub	lic Servi	ice Corr	missior
(1) Available only on a channel of a 1 Hub.	L.544 Mt	ops fac	ility to	a Tele	phone C	ompany

Issued: MAY 0 7 1990

Effective: JUN 0 6 1990

Access Services Tariff Section 7 2nd Revised Sheet 41 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 Publit2nderevesed/Shee848 1st Revised Sheet 49 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 Original Sheet 62 1st Revised Sheet 63 2nd Revised Sheet 64 through

2nd Revised Sheet 67

CANCELLED Public Service Commission MISSOURI

(CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- (AT) Information previously found in Section 7.3 may be found in the approved Technical Reference Publications.



No supplement to this tariff will be issued except for the purpose of canceling this tariff.

(CP)ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued) 7.

7.3 Channel Interface and Network Channel Codes

This Section explains the channel interface codes and net in the section explains the channel codes that the IC must specify when ordering Specify Service Commission Included is an available or the section the section of the sectio Included is an example which explains the specific-characters.of-thecode, a glossary of channel interface codes, impedance levels, network channel codes and compatible channel interfaces.

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 1989 current/low-frequency control signals or slow-speed 1 data (30 baud)

Glossary of Channel Interface Codes and Options 7.3.1 CRUCE OUNI Definition Code Option

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 AH analog high capacity interface В 60 kHz to 108 kHz (12 channels) С 312 kHz to 552 kHz (60 channels) 564 kHz to 3084 kHz (600 channels) D Centrex tie-trunk termination СТ data stream in VF frequency band at End User's point of DA termination S sealing current source and sink provided by Southwestern

DB

data stream in VF frequency band at IC point of termination location

VF for TG1 and TG2 10 VF for 43 telegraph carrier-type signals, 43

Bell Telephone

TG1 and TG2 JHL 1 1985 Service Commission

Access Services Tariff

JUN 27 1986

Section 7

Sheet

Issued: JUN 27 1986

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 Criginal Sheet 41

REGELVED

MESOURI

Public Service Commission

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)
 - d. Transmission Performance-(Continued)
 - Echo Control-(Continued) .

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)	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:

Standard RL		RL		Improved		RL	
ERL	5	dB	•	ERL	20	dB	
SRL	2.5	dB		SRL	13.5	dB	

- 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 list article between 304 Hz and 3004 Hz shall be within -1.0 dB and+5 0 dB. All 1924 **R3-253**

- Signal-to-C Notch NoisHIL 1 1986 The Signal-to-C Notch noisecratio shall not be less than 30 dB. BY ______ PUBLIC SERVICE COMMISSION OF MISSOUN

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

ACCESS SERVICES





7.2 Service Descriptions-(Continued)



Access Services Tariff No supplement to this tariff will be issued Section 7 #eetn41.01 except for the purpose REU of canceling this tariff. (CP)ACCESS SERVICES JUN 27 1986 7. SPECIAL ACCESS SERVICE-(Continued) 7.3 Channel Interface and Network Channel Codes-(Continued) WI22DAKI 7.3.1 Glossary of Channel Interface Codes and Option Public Service Commission Code Option Definiti DC direct current or voltage monitoring interface with series RC combination 1 (McCulloh format) 2 Telephone Company-energized alarm channel 3 Metallic facilities (DC continuity) for direct current/low-frequency control signals or slowspeed data (30 baud) DATAPHONE Select-A-Station (and TABS) interface at IC DD point of termination DATAPHONE Select-A-Station (and TABS) interface at the DE End User's point of termination



Issued: JUN 27 1986

Effective:

3861 F 1386

ACCESS SERVICES

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



Access Services Tariff 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

CANCELED August 18, 2012 Missouri Public Service Commission JI-2013-0048

(AT)

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

No supplement to this tariff will be issued		Access Services Tariff Section 7
except for the purpose		lst Revised Sheet 42
of canceling this tariff.	Re	placing Original Sheet 42
Ŭ	(CP)ACCESS SERVICES	REGEIVED
7. SPECIAL ACCESS SERVIC	E-(Continued)	
, · · · · · · · · · · · · · · · · · · ·	- (JUN 27 1986
7.3 Channel Interface a	nd Network Channel Codes-(Cont	inued)
		12 5
7.3.1 Glossary of Chan	nel Interface Codes and Option	Public Service Commission
Code Option	Definitio	n
DS - - 15 - 15E	digital hierarchy interface 1.544 Mbps (DS1) format per P 8-bit PCM encoded in one 64 k	÷
- 15F	8-bit PCM encoded in two 64 k	
- 15G	8-bit PCM encoded in three 64	
· - 15H	14/11-bit PCM encoded in six	
- 15J	1.544 Mbps format per PUB 414	
- 15K	1.544 Mbps format per PUB 414	
	format	
- 15L	1.544 Mbps (DS1) with SF sign	aling
- 27	274.176 Mbps (DS4)	
- 27L	274.176 Mbps (DS4) with SF si	gnaling
- 31	3.152 Mbps (DS1C)	
- 31L	3.152 Mbps (DS1C) with SF sig	naling
- 44	44.736 Mbps (DS3)	
- 44L	44.736 Mbps (DS3) with SF sig	naling
- 63	6.312 Mbps (DS2)	
- 63L	6.312 Mbps (DS2) with SF sign	aling



Issued: JUN 27 1985

Effective: JUL 1 1000

Access Services Tariff

DEC 20 100

Public Service Classification

RES

Original Sheet 42

Section 7

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

- 7. 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)
 - d. 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-topeak and over 4-300 Hz shall not exceed 10° peak-to-peak.

- Frequency Shift



Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

Issued: January 10, 1997

(RT)

February 10, 1997

By KAREN E. JENNINGS, President-Missouri Southwestern Bell Telephone Company St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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

ACCESS SERVICES

RECIVED FEB 9 1993

MESCII

Public Service Committee ...

SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(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 FEB 1 0 1997 # 43 5 Th R 0 Video II.

Business Video I

Business Video I is a digital channel capable of two way two point video/audio transmission. This video convice of two way two point broadcast guality 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. FILED

Effective:

ÁT)

Issued: FEB 0 9 1993

APR 1 9 1993

APR 1 9 1993

But Manager DUBLIC SERVICE COMM.

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

Ac	cess	Service	es Tari	ff
		5	Section	ı 7
	3rd	Revis ed	Sheet	43
Replacing	2nd	Revised	Sheet	43
	1st	Revised	Sheet	44
ACCESS SERVICES	1st	Revised	Sheet	45
		Revised		
	2nd	Revised	Sheet	47
	2nd	Revised	Sheet	48
ост 5 1992	1st	Revised	Sheet	49
		Throug	yh	
MO. PUBLIC SERVICE COM	ļst	Revised	Sheet	54
	2nd	Revised	Sheet	55
		Throug	zh	
	2nd	Revised	Sheet	57
	4th	Revised	Sheet	58
	1st	Revised	Sheet	59
		Throug	gh	
	1st	Revised	Sheet	61
	1	Original	Sheet	62
	1st	Revised	Sheet	63
	2nd	Revised	Sheet	64
		Throu	gh	
	2nd	Revised	Sheet	67

CANCELLED APR 19 1993 # 43 BY 4 th R.S. # 43 Nin Community BY Hice Commission Public Service Commission MISSOURI

È.

DEC 41992

Issued: OCT - 5 1992

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Effective: NOV 5-1992

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

of cancel:	Ū			
				(CP)ACCESS SERVICES
7. SPECIA	AL A(CES	SS SERVI	CE-(Continued) JUN 27 1986
7.3 Chai	nnel	Int	erface	and Network Channel Codes-(Continued)
7.3.1 (Gloss	sary	/ of Cha	nnel Interface Codes and Options- Public Service Commissi
<u>(</u>	Code	2	<u>ption</u>	Definition
	Ua	-		digital access interface
		-	24	2.4 kbps
		-	48	4.8 kbps
		-	56	56.0 kbps
		-	96 A	9.6 kbps
		-	B	1.544 Mbps format per PUB 41451 1.544 Mbps format per PUB 41451 plus D4
		-	C	1.544 Mbps format per PUB 41451 plus extended
			U	framing format
	DX	-		duplex signaling interface at IC POT
	DY	-		duplex signaling interface at End User's POT
	ΕA	- E	2	Type I E&M Lead Signaling. IC at POT or End User
				at POT originates on E Lead.
	EA	- 1	1	Type I E&M Lead Signaling. IC at POT or End User
	T'D	r	~	at POT originates on M Lead.
	EB	- I	<u>.</u>	Type II E&M Lead Signaling. 1C at POT or End User
	EB	- 1	4	at POT originates on E Lead. Type II E&M Lead Signaling. IC at POT or End User
	60	1	1	at POT originates on M Lead.
	EC	-		Type III E&M signaling at IC terminal POT
	ĒΧ	- 4	4	tandem channel unit signaling for loop start or
				ground start and IC supplies open end (dial tone,
				etc.) functions.
	ΕX	- 1	В	tandem channel unit signaling for loop start or
				ground start and IC supplies closed end (dial tone,
				etc.) functions.
				1, stu 1 1986

Issued: JUN 27 1986

1 1335 Effective: JH.

Public Service Sofamission

Access Services Tar:	iff
Section	n 7
lst Revised Sheet	43
Replacing Original Sheet	43

EIISSOUR

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)
-----------------------------	------------

7.2	Technical	Service Descriptions	for Special	Access	Service-(到到留照到人厅问	į
7.2	l Analog	Services-(Continued)				AUG 1 1 1003	Ì

- 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 VGB 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 BELLEU



Effective:

OCT 1 5-1984

Issued: AUG 1 5 1984

(RT)

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

St. Louis, Missouri

ACCESS SERVICES

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

VG7 is available only with specific facility methage ELLED 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-Conditioning
 - IC specified End User's premises receive level withi acceptable to the Telephone Company for effective range transmission.

Issued: DEC 29 1983

Effective: JAN 0 1 1984

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

QCT 1 5 1984 NFR? SERVICE COMMISSION OF MISSOURI

83-253 Public Service Communities

DEC 2 0 1983

DECEN

Access Services Tariff

Original Sheet 43

Section 7

Public Service Commission

Access Services Tariff Section 7 3rd Revised Sheet 44 Replacing 2nd Revised Sheet 44

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

Issued: January 10, 1997

February 10, 1997

By KAREN E. JENNINGS, President-Missouri Southwestern Bell Telephone Company St. Louis, Missouri

No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose 2nd Revised Sheet 44 of canceling this tariff. Replacing 1st Revised Sheet 44 ACCESS SERVICES FEB 9 1993 SPECIAL ACCESS SERVICE-(Continued) MISSOUTH 7.2 Service Descriptions-(Continued) Publis Service Com and J (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: Audio Bandwidth Provision 14TV6-7 7kHz 2-Way (Transport) Compatible channel interfaces are set forth in the Technical References listed in Paragraph 7.2, preceding. D. **Optional Peatures 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 CANCELLEU each monitor. Public Service Commission MISSOUF FILED

APR 19 1993

APR 1 9 1993 Bffective: MAD 1 100 MO. PUBLIC SERVICE COMM.

Issued: FEB 0 9 1993 By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company St. Louis, Missouri
No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 <u>Ist Revised Sheet 44</u> Replacing Original Sheet 44 JUN 2 7 1986

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued) MISSUUKI

ACCESS SERVICES

7.3.1 Glossary of Channel Interface Codes and Options- Reblic Service 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
	-	С	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
LC	-		registered port open end 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
ĹR	-		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
	-	М	Southwestern Bell Telephone CO TAS Concentrator

ED F 1986 JUL 1 86-84 Public Service Commission

Issued: JUN 27 1986

Effective: JUL 1 1980

Access Services Tariff

REGE

Original Sheet 44

DEC 2.9 (280

Public Service Commission

JAN ~ 1 1987 83 - 253

Publicien

Section 7

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

7. 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)
 - 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:

		Limit (dB	BrnCO)(1)
<u>Channel Mi</u>	leage (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 Useris premises or IC terminal location ______ shall be not fess than the Forlowing limits:

> JUL 1 1986 BY ARS.44 PUBLIC SERVICE COMMISSION

(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

No supplement to this Access Services Tariff tariff will be issued except for the purpose 2nd Revised Sheet 45 of canceling this tariff. Replacing 1st Revised Sheet 45 1st Revised Sheet 46 ACCESS SERVICES 2nd Revised Sheet 47 RECIVED 2nd Revised Sheet 48 1st Revised Sheet 49 Through 9 1993 FEB 1st Revised Sheet 54 2nd Revised Sheet 55 MICECUTI Through Public Scatter Comministind Revised Sheet 57 4th Revised Sheet 58 1st Revised Sheet 59 Through 1st Revised Sheet 61 Original Sheet 62

> 1st Revised Sheet 63 2nd Revised Sheet 64

> > Through

Section 7

2nd Revised Sheet 67

FILED

APR 19 1993

Issued: FEB 0 9 1993

APR 1 9 1993 - DINNE SERVICE C

Effective

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



No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose d-Sheet-45 of canceling this tariff. Repla (CP)ACCESS SERVICES JUN 27 1986 7. SPECIAL ACCESS SERVICE-(Continued) MISSUURI 7.3 Channel Interface and Network Channel Codes-(Continued) Public Service Commission 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 Bell Telephone, sink provided by customer PG program transmission - no dc signaling 1 nominal frequency from 50 to 15,000 Hz 3 nominal frequency from 200 to 3,500 Hz ŝ nominal frequency from 100 to 5000 Hz 8 nominal frequency from 50 to 8,000 Hz PR protective relaying(1) RV 0 reverse battery signaling, one-way operation, originate by IC Т reverse battery signaling, one-way operation, 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 18S 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 FRILLED 405 40.8 kbps, synchronous 50A up to 50.0 kbps, asynchronous 50S 50.0 kbps, synchronous 1986 յոլ 1 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. Issued: JUN 27 1986 Effective: JUL 1123. JUL 1 1988 By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company

St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 Original Sheet 45

DEC 20 1053

ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued) 7.
 - 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)
 - Public Service Commission Voice Grade 8 (VG8) Special Access Service-(Continued) 8.
 - d. Transmission Performance-(Continued)
 - Echo Control-(Continued)

Effective Four-Wire Transmission

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

	Echo Return Lo	Singing ss <u>Return Loss</u>
Two-Wire Interface		
(Return Loss)	24 dB	18 dB
Four-Wire Interface	20 dB	14 dB
(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:

Stand	lard RL	- Impr	ored)	<u>RL</u>
ERL	1ard RL 2.BBRNC	IS BRIL		dB
SRL	2. 切路的也	SRL	13.5	dB

- Loss Variation

1986 JUL 1 -----The long term loss variation from the nominal 1004 EML shall not exceed +1.82418 - Attenuation Distortion of Missouri JAN - 1 1934 The attenuation distortion between 404 Hz and 2804 Hz shall be within -1 0 dB and +2 0 dB with 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.

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose lst Revised Sheet 46 of canceling this tariff. Replacing Original Sheet-46 REG Z (CP)ACCESS SERVICES SPECIAL ACCESS SERVICE - (Continued) 7. JUN 27 1986 7.3 Channel Interface and Network Channel Codes-(Continued) **WISSDAKI** 7.3.1 Glossary of Channel Interface Codes and Options Commission Cod*e* Option Definition WC wideband data interface at End User's POT 18.75 kbps, synchronous 18 19 for 12-wire interface: 19.2 kbps, synchronous for 10-wire interface: up to 19.2 kbps, asynchronous up to 230.4 kbps, asynchronous 23 23S 230.4 kbps, synchronous 40 40.8 kbps, synchronous 50 for 12-wire interface: 50.0 kbps, synchronous for 10-wire interface: up to 50.0 kbps, asynchronous WD. wideband bandwidth interface at IC POT 1 nominal passband from 300 to 18,000 Hz 2 nominal passband from 28,000 to 44,000 Hz 3 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:



Access Services Tariff Section 7 Original Sheet 46

RECENTEN

11310131

Public Service Commission

ドル上国の

JAN 7 1 1934

Public Ser

83-253

.....

ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued) 7.
- 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)
 - Transmission Performance-(Continued) d.
 - 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-topeak and over 4-300 Hz shall not exceed 9° peak-to-peak.

JUL 1. 1986

PUBLIC SERVICE COMMISSION OF MISSOURI

- Frequency Shift 上也世 The frequency shift shall not exceed +1 Hz.

BY

DEC 2 9 1983 Issued:

Effective: JAN 0 1 1994

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.3 Digital Hierarchy Channel Interface Codes (4DS)

This interface is available to customers that select the maltiplexed four-wire DSX-1 or higher facility interface option at the customerdesignated 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:

Access Services Tariff

Replacing 1st Revised Sheet 47

2nd Revised Sheet 47

REGEIVED

JUN 27 1986

WISSOAKI

Section 7

Interface Code and Speed Option	Nominal Bit Rate (Mbps)	Digital <u>Hierarchy Level</u>
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 Code	Network Channe Code	1
MTC	MQ	
MT1	NT	
MT2	NU	
MT3	NV	
TGC	NQ	
TG1	NW	
TG2	NY	
VGC	LQ	
VG1	LB	
VG2	LC	SHILIED
		JUL 1 1986
	-	8-6 = 8.4
	i P	ublic Service Lommission

Issued: JUN 27 1986

Effective: JUL 1 1986

Access Services Tariff Section 7 1st Revised Sheet 47 Replacing Original Sheet 47

AUG 1 -2 1204

ACCESS SERVICES

7. 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)
 - 8. Voice Grade 8 (VG8) Special Access Service-(Continued) #1105UUKI Public Service Commission

e. 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

(RT)

- IC specified End User premises receive level within a range acceptable BARBE Cole Company.
- Improved return loss at four-wire point of interface, applicable to each two-wire legg of effective four-wire channel.

		9 m R S 47	
		PUBLIC SERVICE COMMISSION	0CT 15 1984
		OF MISSOURI	
Issued:	AUG 1 5 1984	Effective: OC	Fublic Service Commission
	By R. D. B	ARRON, President-Missouri Div	vision
		western Bell Telephone Compar	
		St. Louis, Missouri)

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 Original Sheet 47

REGERER

DEC 29 223

1.13207.4

Public Service Commission

OF MISSOURI

RΥ

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued) 7.

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) GANGELLED
 - e. Available Facility Interface Combinations

VG8 is available only with specific facility interface 151984 combinations as set forth in Paragraph 7.2.1, B.14.001 following. PUBLIC SERVICE COMMISSION

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

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.

Ъ. 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.

- с. Optional Features
 - C-Conditioning
 - IC specified End User premises receive level within algrange acceptable to the Telephone Company for effective four-wire 83 - 253 transmission.
 - Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

(AT) (AT)

Access Services Tariff Section 7 ... 2nd Revised Sheet 48 Replacing 1st Revised Sheet 48 RECEIVED

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

OCT-1 3 1987

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

	Codo	Network Channel
	Code	Code
	VG3	LD
	VG4	LE
	VG5	LF
	VG6	LG
	VG7	LH
	VG8	LJ
	VG9	LK
	VG10	LN
	VG11	LP
	VG12	LR .
	VGW	SE (standard)
	VGŴ	SF (improved)
	APC	PQ
	AP1	PÉ
	AP2	PF
	AP3	PJ
	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
	HCO	HS
	HC1	- HC
	HC1C	HD FILED
	HC2	HE
	HC3	HF OCT 16 1987
	HC4	
		Public Service Commission
Issued: 00	CT 1 4 1987	Effective: DCT 16 1987

St. Louis, Missouri

...

Access Services Tariff

JUN 27 1986

Replacing Control Englished

Section 7

ŞĦqë

49

48

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

· *** •

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

WI22DAKI 7.3 Channel Interface and Network Channel Codes-(Continued) Wissouri Public Service Commission

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

Service Designator Code	Network Channel Code
Code VG3 VG4 VG5 VG6 VG7 VG8 VG9 VG10 VG11 VG12 APC	LD LE LF LG LH LJ LX LN LP LR PQ
AP1 AP2 AP3 AP4 WA1 WA2 WA2A WA2A WA3 WA4 WD1 WD2 WD3 RD1	PE PF PJ PK. WJ WQ WI WR OCT 1G 1987 WN WP B Sold B.S.#48 WP WB WB WE Public Service Commission WF
DA1 DA2 DA3 DA4 HC0 HC1 HC1C HC2 HC3 HC4	XA XB XG XH HS HC HD HD HE HF HF HG 86 - 84 Public Service Commission

Issued: JUN 27 1986

JUL 1 1996 Effective:

. ..

- -

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 Original Sheet 48

的昆齿岛的

1.13301.81

Public Service Commission

ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued) 7.
- DEC っっ 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)
 - B. Voice Grade Services-(Continued)
 - 9. Voice Grade 9 (VG9) Special Access Service-(Continued)
 - Transmission Performance d.
 - C-Message Noise

The C-Message Noise shall be less than:

	Limit (d)	BrnCO)(1)	
Channel Mileage (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	

- 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	Impr	oved	RL
ERL	5 dB		20	
SRL	2.5 dB	SRL	13.5	dB

- 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 be within So -3.0 dB and 12.0 dB (minus equals less loss, plus equals GANGELLED 83 - 253 more loss). ⊃ _Ihtta

of Residue :

VICE COMMISSION

(1) Where facility network conditions will support the parameters, Type VI will be provided. Where the Type V1 parameters Sanot be supported, Type V2 will be provided.

DEC 2 9 1983 Issued:

No supplement	to this			Access Services Tariff
tariff will be	issued			· Section 7
except for the	purpose			1st Revised Sheet 49
of canceling t	his tariff.			Replacing-Original_Sheet_49
		(CP)ACCE	SS SERVICES	REGEIVED
		E-(Continue		JUN 27 1986
7.3 Channel	Interface a	ind Network	Channel Codes-(Co	
7.3.5 Compat	ible Channe	l Interface	S	NISSUURI Public Service Commission
The fo	lowing tab	les show th	e interface codes	(CI's) which are compatible
A. Metal	lic			
	Compatib]	le CI's	Compatit	ole CI's
	4AH5-B** 4AH5-B**	2DC8-1 2DC8-2	4AH6-D** 2DC8-1	2DC8-2 2DC8-2
	4AH6-C**		2DC8-3	2DC8-2 2DC8-3
	4AH6-C**	2DC8-2	4DS9*	2DC8-1
	4AH6-D**	2DC8-1	4DS9*	2DC8-2
	4,010 D	2000 1		
		,		
			•	

* 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-44, 4DS6-27
** Available to customers selecting the multiplexed four-wire high capacity analog channel interface option and providing subsequent system and channel assignment data.

Issued: JUN 27 1986

Effective: JUL 1 1986

FILED

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 Original Sheet 49

DEGEIWED

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

BEC 2 0 1203

Public Service Commission

- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
 - 7.2.1 Analog Services-(Continued)
 - 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 and the trequency sheet and the trequency sheet and the treatment of th

JAN - 1 (S2) JUL 1 1986 83-253 Public Section 5.49 PUBLIC SERVICE COMMISSION OF MISSOURI

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

Access Services Tariff Section 7 lst Revised Sheet 50 Replacing Original Sheet 50

(CP)ACCESS SERVICES -

7. SPECIAL ACCESS SERVICE-(Continued)

120 REG 15

> WIZZUNKI Public Service Commission

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

7.3.5 Compatible Channel Interfaces-(Continued)

B. Telegraph Grade

JUN 27 1936

Compati	ble CI's	Compatib	ole_CI's	Compa	tibl	e CI's
10IA8	10IA8			4DB2-43	÷	2TT2-2
4AH5-B***	10IA8	4AH6-D**	4TT2-6	4DB2-43	+	4TT2-2
				4DB2-43	+	4TT2-6
				4DB2-43	+	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**	10IA8	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	10IA8	2TT2-3	++	4TT2-2
4AH6-C**	4TT2-6	4DB2-10	2TT2-2	2TT2-6		2TT2-б
4AH6-D**	10IA8	4DB2-10	4TT2-2	2TT2-6		4TT2-2
		4DB2-10	2TT2-6			
4AH6-D**	2TT2-2	4DB2-43 +	101A8	4TT2-2		4TT2-2
4AH6-D**	4TT2-2	4DB2-43 +	2TT2-6			
4AH6-D**	2TT2-6			4TT2-6		4TT2-6

FILED * 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-44, 4DS6-27 ** Available to customers selecting the multiplexed four wire high capacaty analog . channel interface option and providing subsequent system and channel assign-ment data. Supplemental channel assignment information required. Public Service Commission + ++ Available to existing customers only. Issued: JUL 1 1986

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

Effective:

ACCESS SERVICES

DEC 2 5 1000

IN Section 7

Original Sheet 50

Access Services Tariff

- 7. 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)
 - 9. Voice Grade 9 (VG9) Special Access Service-(Continued)
 - e. 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

GANGELLED FILED JUL 1 1986 R 5.50 PUBLIC SERVICE COMMISSION BY _ OF MISSOURI



Effective: JAN 0 1 1984

Access-Services Tariff

Replacing Original Sheet 51

JUN 27 1986

WIZZAAKI

MC NSection 7

Sed Sheet 51

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

(CP)ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(CANTIONSERVICE Commission

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade

Compatible	e CIs	Compatible	e CIa	Compatible	e_CIs
4 <u>48</u> 2	4A32	4AE5-B+ 4AE6-C+	2013 2013	4AE6-D+	4DE2
4AB2	2ACZ	4AE6-D+	-	4485-8+	
4AB2	ZACZ ZACZR	4AC0~D+	2013	4AH6+C+	4DX2 4DX2
4432	4 AC2	4A85-B+	2010		
4482			2DA2	чанб-д+	4DX2
4852	4AC2R	4AH6-C+	2DA2	b	1000
11470	1000	4AH6-D+	2DA2	4A35-8+	4DY2
4AE2	4SF2	4AH5-B+	4DA2	4AH6-C+	4DY2
		4AH5-3+	4DA2S	чаеб-d+	4DY2
2AC2	2402	4AH6-C+	4DA2		
ZAC2	4AC2	44E6-C+	4DA2S	•	
4AC2	4102	4AH6-D+	4DA2		
•		4AH6-D+	4DA2S		
4AH5-B+	4432	4AE5-B+	6DA2		
4AH6-C+	4432	4AH5-B+	6DA2S		
4AH6-D+	4AB2	4анб-с+	6DA2		
		4AH6-C+	6DA2S		
4AH5-B+	2AC2	4анб-р+	6DA2	4AH5-3+	4EA2-E
4aa5B+	2AC2R	4ae6-d+	6DA2S	4A35-3+	4EA2-M
4AE6-C+	2402				
4анб-с+	24028	4AH5-B+	4DBZ	4A26-C+	4EA2-2
Чанб-д+	2402	чанб-с+	4DBS	чанб-с+	4EA2-M
4AH6-D+	2AC2R	4AE6-D+	40B2		
4ah5-b+	4AC2			4AH6-D+	4EA2-E
4af5-b+	4AC2R	4AH5-B+	2DE2	4AE6-D+	4EA2-M
чанб-с+	4AC2	чанб-с+	2DE2	4AH5-B+	6EA2-E
ЧАНБ-С+	4AC2R	4AR6-D+	2DE2 🕅	4AH5-B∓	SEA2-M
4AH6-D+	4AC2	4AH5-B+	4DE2	4AH6-C+	6EA2LE
4AH6-D+	4AC2R	4AH6-C+	4DE2	4AH6-C+	6EA2-M
			Ň	JUL	1 1986
			Į.		
					-84
				Fudiic Serv	ice Commission
			اله م م	1.4	

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

Issued: JUN 27 1986

Effective: JUL 1 1986

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued) Access Services Tariff Section 7 (noriginal Sheet S1 いビジビリン

DEC 2 9 1883

Public Service Commission

JAN - 1 193-1

83 - 253

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

10. 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	(dBrnCO)(1)			
<u>Channel Mileage (mi)</u>	Type Vl	<u>Type V2</u>			
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: P.11210)



(1) Where facility network conditons will support the parameters; Type V1~will be provided. Where the Type Virbanameters cannot be supported, Type V2 will be provided. PUBLIC SERVICE COMMISSION OF MISSOURI

DEC 2 9 1983 Issued:

Effective: JAN 0 1 1984

Red

Access Services Tariff

JUN 27 1986

MISSUURI

Public Service Commission

Section 7

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

(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)

	<u>Compatibl</u>	e CI3	<u>Compatible</u>	<u>e CIs</u>	<u>Compatible</u>	e CIs
	4AE6-D+	6 2 42-E	4AE6-C+	2983-C	4AH6-C+	2LR2
	4AE6-D+	6242-M	4AE6-C+	2GS3-M	4AH6-D+	2L.R.2
			4AH6-D+	2652	4A35-8+	41.32
	4AE5-8+	6292-2	4AH6-D+	2GS2-M	4AH6-C+	4LR2
	4AE5-B+	6EB2-M	4AH6-D+	2 9 53	4AE6-D+	41.82
	44E6-C+	6E32-E	4анб-д+	2683-C		
	4A36-C+	6E32-M	4AH6-D+	2GS3-M	4AE5-B+	2 <u>1</u> .52
	4AH6-D+	6EB2-E	4 <u>AB5-</u> B+	4GS2	4AH5-B+	21.S2-M
	4AH6-D+	6232-M	4анб-с+	4GS2	4af5-B+	21.53
	41H5-B+	SEB2-E	4анб-д+	4GS2	4AE5-B+	2LS3-M
	4AE5-B+	8eb2-M	4AE5-B+	6GS2	4AE6-C+	2LS2
	44H6-C+	8EB2-E	4AE6-C+	6G\$2	4AH6-C+	21.52-M
	4анб-с+	8EB2-M	4анб-д+	6GS2	4AH6-C+	2L\$3
	4AE6-D+	8EB2-E			44Нб-С+	21_53-M
	4AE6-D+	8eb2-M	4AE5-B+	21.12	4AH6-D+	2LS2
			4AH6-C+	2LA2	4анб D+	2LS2-M
			4AH5-D+	21.A2	4анб-D+	2LS3
					4AH6-D+	2LS3-M
			4AH5-3+	21.32	4AE5-B+	4LS2
			4AE6-C+	21.32	4AES-C+	4LS2
			4анб-д+	2LB2	4AH6-D+	4LS2
					4 <u>a</u> ff - B+	2N02
	4 <u>A25-</u> 3+	2003	4A35-B+	2LC2	4AH6-C+	2N02
	4AH6-C+	2603	44E6-C+	2L C2	4AH6-D+	2NO2
	4AH6-D+	2003	4AH6-D+	2LC2	4A.75B+	402
					4A£5-B+	4N02-S
	4ae5-B+	2GS2	4af5-8+	2L03	4AH6-C+	402
	4AH5-B+	2GS2-M	4AH6-C+	2103	4AH6-C+	4N02-5-10 (2)
	4AH5-B+	2G\$3	4AH6-D+	21.03	4486-D+	
	4AH5-B+	2 6\$3- C			4AH6-D+	4N02-S'
	4AH5-B+	2GS3-M			4AH5-B+	2PR2 111 1 1000
	4AR6-C+	2GS2			4AH6-C+	2PR2 JUL 1 1986
	4AH6-C+	2052-M			4AH6-D+	2PR2 86-84
	4 <u>486-</u> C+	2 GS 3	4AH5-B+	2L.72	4AH5_B+ ∰	Public Service Commission
to	customer	selecting	the multi	nlexed for	ur-wire hi	oh=canacity=anabno

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

Issued: JUN 27 1986

Effective: JUL 1 1986

Access Services Tariff Section 7 Original Sheet 52

DEC 2 9 1883

Public Service Commission

F: 11 2'0,

JAN - 1 (60)

Public S

83-253

ACCESS SERVICES

- 7. 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)
 - 10. 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.

GANGELLED

JUL 1 1986 PUBLIC SERVICE COMMISSION OF MISSOURI

DEC 2 9 1983 Issued:

Effective: JAN 0 1 1984

(CP)ACCESS SERVICES

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

7.

Access Services Tariff Section 7 1st Revised Sheet 53 Replacing Original 53 KEUE 1211 JUN 27 1986 7.3 Channel Interface and Network Channel Codes-(Continued) **WISSUNKI Public Service Commission**

C. Voice Grade-(Continued)

SPECIAL ACCESS SERVICE-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

Compatibl	le CIs	<u>Compatio</u>	le CIs	<u>Compatib</u>	<u>le CIs</u>
4AH6-C+	4232	2013	8EB2-M	2DB2	2N02
4АНб-D+	4PR2			4DB2	2N02
		2CT3	8EC2	4DB2	4102
4ae5-8+	2272-T			4DB2	4N02-S
4АНб-С+	2872-T	2 01 3	4S72		
4AH6-D+	28V2-T			2083	2PR2
4A35-8+	4R72-T	2DA2	2DA2	4DB2	2P32
4AH6-C+	4RV2-T	4DA2	2DA2	4DB2	42R2
4AH6-D+	4RV2-T	4DA2-S	2DA2		
		4DA2	4DA2	4003	2DE2-
4AF5-2+	2772	4DA2	4DA2-S	4003	4DE2
4анб-с+	2 T F2	4DA2-S	4DA2-S		
4анб-D+	2TF2	6DA2	2DA2	4DS9	4AB2
4485-8+	4TF2	6DA2-S	2DA2		
4аеб-с+	4TF2	6DA2	4DA2	4DS9-7	2AC2
4AH6-D+	4TF2	6DA2	4DA2-S	4DS9 ₹·	2AC2-R
		6DA2-S	4DA2	4DS9-*	4AC2
2013	2073	6DA2-S	4DA2-S	4DS9- -	4AC2-R
		6DA2	6Da2		
		6DA2	6DA2-S	4DS9- *	2013
2CT3	4012	6DA2-S	6da2-s		
				4DS9	2DA2
2CT3	4EA2-E	2DB2	2DA2	4DS9	4DA2
2013	4EA2-M	4DB2	2DA2	4DS9	4DA2-S
2013	6EA2-E	4DB2	4DA2	4DS9-=	5DA2
2013	6EA2-M	4DB2	4DA2-S	4DS9 - ≞	6da2-s
		4DB2	6DA2	ſ	
2CT3	6EB2-E	4DB2	6DA2-S	4DS9-#	4DB2 5 1 5 1
2CT3	6EB2-M			4DS9	DE2 TO LILLE U
2013	8EB2-E	4DB2	4DB2	4DS9-#	4DE2
					JUL 1 1986
					86-84
o custome	ers selec	ting the	multiplexe	d four-wir	ephigh (capacity analo and chamel assign=
arface of	ntion and	providin		ot cuctom	្រាត្តបុទ្ធភ្លូ សូចាមរបស់ សូខាណ៍សារ

+ Availabl ğii , channel interface option and providing subsequent system and cna ment data.

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

Issued: JUN 27 1986

Effective: 1 13-5

ACCESS SERVICES

DEC 2 9 1093

1. Samo

JAN - 1 1934

253

mer Section 7,

Original Sheet 53

Access Services Tariff

- 7. 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)
 - 10. 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-to-peak and over 4-300 Hz shall not exceed 15° peak-to-peak.

- Frequency Shift

The frequency shift shall not exceed +3 Hz.

e. Available Facility Interface Combinations

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

GANGELLED

JUL 1 1986 PUBLIC SERVICE COMMISSION BY OF MISSOURI

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

Access Services Tariff Section 7 1st Revised Sheet 54 Replacing Original Sheet 54

RECEI

JUN 27 1986

WISSORKI

Public Service Commission

VED

1

ł

(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)

	<u>Compatib</u>	le CIs	<u>Compatib</u>	le CIs	Compatib.	le CIs
	4DS9-0	4DX2	4059→*	2L03	4DX2 4DX2	6EA2-E 6EA2-M
	4DS9-*	4D12	4DS9 - * 4DS9 - *	21.72 . 41.72		
			-		4DX2	6E32-E
			4DS9 - ₹	ZLS2	4DX2	6EB2-M
			4DS9_#	21.52-M	40%2	8EB2-E
	4DS9-*	4EA2-E	4DS9-8	2L.S3	4DX2	8EB2-M
	4DS9*	4EA2-M	4DS9	2LS3-M		
	4DS9-*	6EA2-E	4DS9-*	4LS2	4DX2	BEC2
	4DS9	6EA2-M				
			4DS9_*	2302	4DX2	2LS2
	•		4DS9-*	4N02		
	4DS9-*	6EB2-E	4DS9-*	4N02-S	4 DX2	2RV2-T
	4DS9-3	6EB2-M			4DX2	4RV2-T
	4DS9-3	8E32-E	4DS9_≇	2222	1000	1470
	4DS9+#	8E32-M	4DS9-#	4PR2	4DX2	45F2
	4DS9	2603	4DS9	2972-T	6ea2-e	4DY2
			4DS9 - ≢	4RV2-T	6EA2-M	4DY2
	4DS9	2GS2		h		
	4DS9	2GS2-M	4DS9=	4SF2		
	4DS9	2GS3				
	4DS9-*	2653-C	4DS9	21F2		
	4DS9	2GS3-M	4DS9	4TF2		
	4DS9_≢ 4DS9_≢	4GS2 6GS2	4DX2	4DX2	4EA2-E	42A2-E
	4029	0032	4082	4012	4EA2-E	4EA2-M
	4DS9	2LA2	4DX2	4DY2	4EA2-M	4EA2-M
	4DS9-*	2LB2			6EA2-E	4EA2-E
			4DX2	4EA2-E	6EA2-E	-4EA2-M
	4DS9 - ♥	2LC2	4 DX 2	4EA2-M	6EA2-M	HEAZ-E'IL (ED)
						Jut. 1 1986
* 4DS9-15, 4DS	9-31, 4DS	0-63, 4DS	6,44, 4DS	6,27	¥	86-84
Issued: JUN 2	7 1986		E	ffective:	JUL	1986
	By R	. D. BARR	ON, Presie	dent-Misso	uri Divisi	on

Southwestern Bell Telephone Company St. Louis, Missouri

ACCESS SERVICES

DEC 20 KES

LISSUURI

Original Sheet 54 (7)

Section 7

Access Services Tariff

7. 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)
 - 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

同时心意识 GANGELLED JAN 7 1 1984, 253 JUL 1 1986 BY PUBLIC SERVICE COMMISSION OF MISSOURI DEC 2 9 1983 Effective: JAN 0 1 1984 Issued:

. .. .

No supplement to this tariff will be issued except for the purpose of canceling this tariff.		Access Services Tariff Section 7 2nd Revised Sheet 55 8 1st-Revised-Sheet-55 10 10 10 10 10 10 10 10 10 10 10 10 10 1
(CP)ACCESS SERVICES	REGEIVED
7. SPECIAL ACCESS SERVICE-(C		JUN 2 7 1986
7.3 Channel Interface and N	etwork Channel Codes-(Continu	eđ) MISSUJKI
7.3.5 Compatible Channel In	terfaces-(Continued)	Public Service Commission

.Compatible CIs Compatible CIs Compatible CIs 4SF2 8EB2-M 4RV2-T 4EA2-E 4EA2-M 6EA2-M 4SF2 6EA2-E 4EA2-M 6EA2-E 4SF2 6EB2-E 4SF2 6EA2-M 6EA2-E 6EA2-E 4SF2 6EB2-M 4SF2 6E12-M 6E12-M 6EA2-M 4SF2 8E32-E 4SF2 SEB2-M 8EB2-E 4072 BEB2-M 4DY2 SEC2 4DY2 6EB2-2 4EA2-E 6EB2-M 4EA2-E 4EA2-M 6EB2-E 8EC2 4EA2-E 4EA2-M 6EB2-M 8EC2 4EA2-M HEA2-E 8EB2-2 8E32-E 4EA2-E 6EA2-E 8EC2 4EA2-M 4EA2-E 8EB2-M 8EB2-E 6EA2-M 8EC2 4EA2-E 8E32-M 4EA2-M 8EB2-E 4EA2-M 8E32-M 8E32-M 4EA2-M 6EB2-E 6ĖA2-E 6E32-2 6232-2 8EC2 6EB2-M 6E32-E 5EA2-E 6EE2-M 8EC2 6E62-E 6EB2-E 6E32-M 6EA2-M 8E32-E 6232-M 8EC2 6EE2-M 6EB2-M 6EA2-M 6EB2-E 8EC2 8E32-M 8EB2-E 8EB2-E 6EA2-E 8E32-M 8E32-E 6232-M 6EA2-E 6EX2-B 2G02 6EB2-E 8EB2-M 6EA2-M 8232-E 6EX2-3 2003 8E92-M 6E32-M 8EB2-M 6EA2-M 8E32-E 8EB2-E 6EX2-A 2GS2 8EB2-M 8E32-E 6EX2-A 2GS2-M 8EB2-M 8EB2-M 6EX2-A 2GS3 21.52 6EA2-E 6EX2-A 2GS3--C ZLS2 2LS2 8EB2-E 6EA2-M ____ 2GS3-M 21.52 6EX2-A 8EB2-M 4GS2 IE 6EX2-A 2RV2-T 6E42-E ED 6652 17 ...IL 8EB2-E ZRV2-T 6EX2-A k 6EA2-M 2RV2-T 2772-T 8EB2-M 6EA2-E 4RV2-T 2LA2 JUL 1 6EX2-8 4RV2-T 8EB2-E 6EA2-M 4RV2-T 1986 86-84 Public Service Commission

C. Voice Grade-(Continued)

Issued: JUN 27 1986

Effective: JUL 1 1988

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 lst Revised Sheet 55 Replacing Original Sheet 55

AUG 1 2 1924

EAISSOURI

ACCESS SERVICES

- 7. 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

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



Access Services Tariff Section 7 Original Sheet 55

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

DEC 20 1003

后派国的

Dyrtin Ph

ANT1 1930 83-253

- 7.2 Technical Service Descriptions for Special Access Service-(Continued); JRI 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 Comł	oinations				Vo:	ice	e Grade Service (VG)	
IC	End User	1	2	3	4	5	6 7 8 9 10 E E E 13	
4AB2	4AC2		Х				GANOGSE	
4AB2	2AC2		х				OCT 1 5 1984	
4AH6-D(1)	4AC2		Х				int Dr 5h	
4AH6-D(1)	2AC2		Х				HE KS USE	
4AH6-C(1)	4AC2		Х				BY PUBLIC SERVICE COMMISSION	
4AH6-C(1)	2AC2		Х				PUBLIC SERVICE OF MISSOURI	
4AH5-B(1)	4AC2		Х					
4AH5-B(1)	2AC2		X					
4AH6-D(1)	6DA2						x	
4AH6-C(1)	6DA2						X X	
4AH5-B(1)	6DA2						X X	
4AH6-D(1)	4DE2				-	X		
4AH6-C(1)	4DE2					Х		
4AH5-B(1)	4DE2					Х		

(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.

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

Access Services Tariff Section 7 2nd Revised Sheet 56

Replacing_1st_Revised_Sheet_56

RE

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

JUN 27 1986

WISSOAKI

Public Service Commission

5

- 7.3 Channel Interface and Network Channel Codes-(Continue)
 - 7.3.5 Compatible Channel Interfaces-(Continued)

- . .

C. Voice Grade-(Continued)

Compatible CIs		<u>Compatil</u>	ole CIs	Compatible CIs					
6EX2-B	2LB2	2L02	2LS2	4102	2DA2				
		2102	21.53	4N02-5	2DA2				
6EX2-B	2LC2	2L03	21.52	4NC2	4DA2				
		4L02	2L.S2	4102	4DA2-S				
		41.02	2LS2-M	4N02-S	4DA2				
SEX2-B	2L03	4L02	2LS3	4N02-S	4DA2-5				
	-	4102	2LS3-M	4N02	6DA2				
62X2-B	2LR2	4602	41.52	4N02	6DA2-S				
6EX2-8	4LR2			4N02-5	6DA2				
		2L.R2	2LR2	4N02-5	6DA2-S				
GEX2-A	2LS2	4LR2	2LR2		<u></u>				
6EX2-4	21_52-M	4LR2	4LR2	402	2DE2				
6EX2-A	2LS3			4N02-5	2DE2				
6EX2-A	21.53-M	2LS2	2602	4102	4DE2				
6ex2-a	41.52	2LS2	4G02	4N02-S	4DE2				
•		2 LS 3	2G02	-					
2602	2GS2	2LS3	4602	2002	2N02				
2602	2GS3-C	4LS2	2G02	2N03	2N02				
2603	2GS2	4LS2	4G02	2N02	4N02-S				
2603	2GS3			4802	2N02				
4G02	2GS2	2LS2	2LA2	402	4N02				
4602	2652-M	4LS2	2LA2	4N02	4N02-5				
4G02	2GS3			4NC2-S	4NC2-S				
4G02	2GS3-C	2LS2	2LB2						
4602	2GS3-H	41-52	2LB2	21103	2932				
4602	4GS2			4N02	4PR2				
4GO2	6GS2	2LS2	2LC2						
		4652	2LC2	4772-0	2RV2-T				
4G\$2	2G02			4772-0	4RV2-T				
4GS2	2603	4LS2	2L0 2						
		41.82	2L03	4SF2	2402				
2G32	21.02			4SF2	2AC2-85 [5 []				
2G\$2	4L02	2N02	2DA2	4SF2	4AC2 11				
2G\$3-C	2L02	2102	4DA2	4SF2	4AC2-R 1 1986				
2GS3-C	4L02	2002	4DA2-S		JUL 1900				
4GS2	2L02	2N02	6DA2	4SF2	4DY2 86-84				
4GS2	4L02	2N02	6DA2-S	4SF2	Bervice Sommission				

Issued: JUN 27 1986

Effective: JUL 1 1986

·· JUL [1300

Access Services Tari	lff
Section	ı 7
lst Revised Sheet	56
Replacing Original Sheet	56

X

X

X

Х

X Х

X

X X

X X

Х X

X Х

Х

X X

X X

X X

X Х X

Х

X X

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued) 7.

4AH5-B(1)

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)

4AH6-D(1)4AH6-D(1)

4AH6-D(1)

4AH6-D(1)

4DX2

9DY2

6DY2

4DY2

9DY2

6DY2

4DY2 9DY2

6DY2

4DY2

9EA 2

6EA2-E

6EA2-M

4EA2-E

	7.2 Tech	nical Service	Descriptions	for	Speci	al A	cces	s Ser	vice-[(Contin	1 1 1 1 1 1 1 1 1 1 1	VED	
	7.2.1 A	nalog Service	s-(Continued)										t,
	B. Voi	ce Grade Serv	lces-(Continu	ed)						AU(31		
	14.	Available Fa	acility Inter	face	(FI)							JRI Commis	sion
		FI Comb:	inations			Vo	ice	Grade	Servi	ce y	VG) L		
		IC	End User	1	2 3	4	5	<u>6 7</u>	<u>8 9</u>	10	<u>11</u> <u>1</u>	2 13	
I)		4AH6-D(1)	4DX2						х				
		4AH6-C(1)	4DX 2						X				

х

Х

Х

X

X

X

Х

Х

X

X

Х

X

Х

(CT

GANBELLED 1986 JUL 1 PUBLIC SERVICE COMMISSI BY C

(1) Available only to IC's selecting the multiplexed four-wine-High-Ga analog facility interface option at the IC Terminal location and subsequent system and channel assignment data. 130 1 Effective: OCT 1 5 1984 AUG 1 5 1984 Issued:

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

No supplement to this Access Services Tariff tariff will be issued Section 7 Original Sheet 56 except for the purpose ににじらせてに知 of canceling this tariff. ACCESS SERVICES DEC 2 0 1003 7. SPECIAL ACCESS SERVICE-(Continued) 1.1011 7.2 Technical Service Descriptions for Special Access Service, (Gontinued), 7.2.1 Analog Services-(Continued) B. Voice Grade Services-(Continued) 14. Available Facility Interface (FI) Combinations-(Continued) FI Combinations Voice Grade Service (VG)

FI COMDINACIONS				voice Grade Service (VG)												
IC		End User	1	2	3	4	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	9	<u>10</u>	<u>11</u>	<u>12</u>	13	
4AH5-D	(1)	4DX2									Х					
4AH6-C	(1)	4DX2									Х					
4AH5-B	(1)	4DX2									X					
4AH6-D	(1)	9DY2			х		•		x	Х						
4AH6-D	(1)	6DY2			Х				Х	Х						
4AH6-D	(1)	4DY2			Х				Х	Х			~	nE	in) -	
4AH6-C	(1)	9DY2			Х				Х	Х		<u>-0</u>	ßII	145	50	
4AH6-C	(1)	6DY2			Х				Х	¥n,	۱V ،	U VA) 5 0	20		
4АН6-С	(1)	4DY2			X				Х	ΥÜ	ريزار	00	_	mul	4	
4AH5-B	(1)	9DY2			X				X	X		ഫി	LTP	1980	`	
4AH5-B	(1)	6DY2			Х				Х	X		υŪ	iv	01.	56	_
4AH5-B	(1)	4DY2			X				X	X		15	<u>- K</u>	S	MISSI	54
4 АН6- D	(1)	9EA2			х			•	x	X	BY .	BLIC S	ERVIC	E COR	MISSIG	
4AH6-D	(1)	6EA2-E			Х				Х	Х	6 8					
4AH6-D	(1)	6EA2-M			Х				Х	Х	Х					
4AH6-D	(1).	4 EA2 -E			X				Х	Х						

(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.

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

后正国际

J/N = 1 (95). 8 3 - 2 5 3

Access Services Tariff Section 7 2nd Revised Sheet 57 Replacing 1st Revised Sheet 57

REGEIVED

MISSUUKI Public Service Commission

(CP)ACCESS SERVICES

7.	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)

<u>Compatib</u>	le CIs
4SF2	· 2GS2
4SF2	2GS2-M
4SF2	2GS3
4SF2	2GS3-C
4SF2	2GS3-M
4SF2	4GS2
4SF2	6GS2
4SF2	2LA2
	<u> 2472</u>
4SF2	2L32
hame	
4SF2	2LC2
4SF2	2L03
	_
4SF2	21.R2
4SF2	4L.R2
4SF2	2LS2
4SF2	2LS2-M
4S72	2LS3
4SF2	2LS3M
4SF2	4LS2
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4SF2	2RV2-T
45F2	4RV2-T
2 T F3	2TF2
4TF2	2TF2
4TF2	4TF2
	7152



Issued: JUN 27 1986

Effective: JUL 1 1986

		P.S.	C. Mo	No. 36	1						
	ent to this					A	cces	s Ser	vices Ta		
	1 be issued						1.01	Pout	Secti sed Shee		
	the purpose ng this tari	Ff.			F	Renlac			nal Shee		
or cuncerr			SS SERV	ICES	-		8	·			
7. SPECIAL	L ACCESS SERV	/ICE-(Continue	d)				Ĩ	ា	ເສັຍເອ	ត្តា ភាហ	с. <u>по</u> я-3
7.2 Tech	nical Servic	Descriptions	for Sp	ecial	Acces	ss Ser	vice	- (con	탈顺왕	三日の	
7.2.I A	nalog Servic	es-(Continued)	-					1.	410 - 1	100 -	
B. Voi	ce Grade Ser	vices-(Continu	ed)				,), i 	AUG 1-1		
14.	Available !	acility Inter	face (F	I) Com	binat	tions-	-(Cot	nt inue Finic	a), MISSU Service		inn
	FI Comb	Inations		V	oice	Grade	set	vice-	(NG.)	20111111122	
	IC	End User	$\frac{1}{1}$	2 3 4	5	<u>6</u> <u>7</u>	8	<u>9 10</u>	11 12	2 13	
	(AU(D(1)	(TA) M		v		v	v				
	4AH6-D(1) 4AH6-C(1)	4EA2-M 9EA2		X X		X X	X X				
	4AH6-C(1)	6EA2-E		x		X	x				
	4AH6-C(1)	6EA2-M		X		X		X			
	4AH6-C(1)	4EA2-E		X		x	X	-			
	4AH6-C(1)	4EA2-M		х		х	X				
	4AH5-B(1)	9EA2		x		x	Х				
	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		х	X				
	4AH6-D(1)	8EB 2-E		X		X	X X	v			
	4AH6-D(1)	8EB 2-M		X X		X X	x	X			
	4AH6-D(1)	6EB 2-E		X			X				
	4AH6-D(1)	6EB 2 – M 8EB 2 – E		X		X X	X				
	4AH6-C(1) 4AH6-C(1)	8EB 2-M		x		X	x	x			
	4AH6-C(1)	6EB 2-E		X		X		л			
	4AH6-C(1)	6EB 2-M		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				Ψ					
	4AH5-B(1)	6EB 2M	ß	AÑI		le	Ø				
	4AH6-D(1)	2GO 2	y w	(, , w <							
	4AH6-C(1)	2 GO 2	Х			1986					
	4AH5-B(1)	2GO 2	X	JUL Q	- ±		7				
	4AH6-D(1)	6GS2(2)	٥١	Am	الح بح	2	SION				
	4AH6-D(1)	4GS2	P	UBLIK SE	RVICE						
	4AH6-D(1)	2GS3	•	X	op Miss	X					
	4AH6-D(1)	2GS 2	X	X		X					
		IC's selecting terface option									مر بر فر ا
		and channel as				ar 10	-4-1		מווזקן <u>י</u>	121N)	
		rface combinat				with	Cen	rex C			Ly.
Issued:	AUG 1 5 1984		Effec	tive:	OCT	151	1984		OCT _18) 1304	
		D. BARRON, Pre outhwestern Be	ll Tel	ephone			on	Publi	c Service	Commis	sior
		St. Lou	ıs, Mi	ssouri							

Access Services Tariff

DEC 20 (203

his will

Original Sheet 57

Section 7

ഉളക്യ

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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-(Continued)

FI Combinations Voice Grade Service (VG) IC End User <u>13</u> 1 2 3 <u>4 5 6</u> 7 <u>8 9 10 11</u> <u>12</u> 4AH6-D(1)4EA2-M Х х х Х 4AH6-C(1)9EA2 Х Х Х Х Х 4AH6-C(1)6EA2-E Х 4AH6-C(1)6EA2-M Х Х Х Х 4AH6-C(1)4EA2-E Х х Х 4AH6-C(1)4EA2-M Х Х Х Х 4AH5 - B(1)9EA2 Х X 4AH5-B(1) 6EA2-E х Х Х Х Х Х 6EA2-M 4AH5 - B(1)4EA2-E Х Х 4AH5~B(1) Х Х Х Х 4AH5-B(1)4EA2-M 8EB2-E Х 4AH6-D(1)Х Х X 4AH6-D(1) 8EB2-M Х X Х 4AH6-D(1)6EB2-E Х X Х Х 4AH6-D(1)6EB2-M Х Х Х Х Х 4AH6-C(1)8EB2-E 8EB2-M Х Х 4AH6-C(1)Х Х 4AH6-C(1)6EB2-E X Х Х Х X Х 4AH6-C(1)6EB2-M Х Х 4AH5-B(1)8EB2-E Х X Х 4AH5-B(1) SEB2-M Х GANCE X 4AH5 - B(1)6EB2-E Х Х 6EB2-M 4AH5-B(1)OGT 1 5 1984 2G02 Х 4AH6-D(1) Х 2G02 4AH6-C(1)PUBLIS SERVICE COMMISSION 4AH5-B(1) 2G02 Х 1 (SE 4AH6-D(1)4**G**S2 X 2**GS**3 Х 253 4AH6-D(1) 2GS2 Х Х. х 4AH6-D(1)ワットド・イ (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.

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

Access Services Tariff Section 7 4th Revised Sheet 58 Replacing 3rd Revised Sheet 58 Through 1st Revised Sheet 61 Original Sheet 62 RECEIVED

ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

OCT 2 3 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
 Available WAL

 Supervisory Signaling
 Channel Interfaces

 L0
 2LS2, 2LS3, 4LS2, 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-44, 4DS6-27

 G0
 2GS2, 2GS3, 2GS3-C, 4GS2, 4GS2-C, 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-27

 G0
 2GS2, 2GS3, 2GS3-C, 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-27

FLED

FEB 1 1988

Public Service Commission

Issued: OCT 2 2 1987

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

Effective:

FEB

1988

Access Services Tariff Section 7 3rd Revised Sheet 58 Replacing 2nd Revised Sheet 58

ACCESS SERVICES

RECEIVED

7. SPECIAL ACCESS SERVICE-(Continued)

OCT 1 3 1987

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

MISSOURI Public Service Commission

C. Voice Grade-(Continued)

No supplement to this

tariff will be issued

(AT)

(AT)

except for the purpose

of canceling this tariff.

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

CANCELLED

FEB 1 1988 BY 40 A SEL58 Public Service Commission MISSOURI

FILED

OCT 16 1987 TO-87-42 Public Service Commission

Issued: OCT 1 4 1987

Effective: OCT 16 1987

Access Services Tariff Section 7 2nd Revised Sheet 58 Replacing 1st Revised Sheet 58 Through 1st Revised Sheet 61 Original Sheet 61 JUN 2 7 1986 s-(Continued) NISSUURI) Public Service Commission

(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)

(RT)

CANCELLED OCT 16 1987 BY 380 B S#4 Public Service Commission MISSOURI

			FILED
			JUL 2 1986 8 6 - 8 4 Public Service Commission
Issued:	JUN 2 7 1986	Effective: JUL	1 1986
	Southw	ARRON, President-Missouri Da estern Bell Telephone Compan St. Louis, Missouri	
		· · · · · · · · · · · · · · · · · · ·	

Access Services Tariff Section 7 1st Revised Sheet 58 Replacing Original Sheet 58

1

ED

i. K

AUG 14 1004

ACCESS SERVICES

- 7. 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)
 - Available Facility Interface (FI) Combinations-(Continued) [6] CSALR 14.

	в.	Voic	e Grade Ser	vices-(Conti	nued)								1 1	• •	-	-		L. T
		14.	Available	Facility Int	erface	(FI	:) C	omb	ina	tio	ns-	(Co	nt1	nued)[[]]	SSOU	RI	
			FI Comb	inations				Vo	ice	Gr	ade	Se	171	er(ÎG).	ice C	ommi	ssion [
			IC	End User	ī	2	3	4	5	6	7					- 12]
					_	-	-	-	-	-	-	-	-					
(AT)			4AH6-C(1)	6GS2(2)			Х				Х							
			4AH6-C(1)	4GS 2			X				X							
			4AH6-C(1)	2GS3			X				X							
			4AH6-C(1)	2GS 2	X		Х				X							
(AT)			4AH5-B(1)	6GS2(2)			X				X							
			4AH5-B(1)	4GS2			X				Х							
			4AH5-B(1)	2GS 3			X				X							
			4AH5-B(1)	2GS 2	Х		X				X							
			4AH6-D(1)	2LA2		х					х							
			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					х							
			4AH6-C(1)	2LC2		x					X							
			4AH5-B(1)	2LC2		x					x							
			4AH6-D(1)	2LO 3		x				X								
			4AH6-D(1)	2103	Х					-								
			4AH6-C(1)	2102	4	x				X								
			4AH6-C(1)	2102	X					n								
			4AH5-B(1)	2L02	2		៣៤	n n i	NB.	Ry I	1 1	E	۲ <u>ارا</u>					
			4AH5-B(1)	2102	X		២្រ		jUJ	5	Տև	, [S	U					
			4AH6-D(1)	/1 D 0		v		-	11		198	Ľ						
			• •	4LR 2		X		JU	1	•	130	U I						
			4AH6-D(1) 4AH6-C(1)	2LR 2 4 LR 2		X	a	<u>M</u>	5) כ	0	:⊄						
				2LR2		ĴB	Ya	(<u> </u>		<u>}</u>	20						
			4AH6-C(1) 4AH5-B(1)	4LR2		4 	PUBLI	IC SE	RVIC	CE C	OWY	AISSI	ON					
			4AH5-B(1)	2LR 2		X				1220	URI		E.e.					
	(1) Av	vaila		IC's selecti	ing the	e mu.	ltin	lex	ced	foi	ır-ı	vire	e Hi	gh (Capa		ΞD	
				nterface opti	_		-						н				ng	
-		_	•	and channel													1934	
T)	<u>(2)</u> Ti	nis f	acility int	erface combir	ation	<u>is</u> a	app.	11C8	able	e wa	ith	Cer	ntre	ex C	.0.	Serv	ice c	omly.
-	Ізьцес	1: A	UG 1 5 1984			Eff	ect	ive	: [CT	1	5 1	98 4 F	Publi	ic Se	rvice	Comr	nission
			By]	R. D. BARRON,	Presi	lden	t-M:	isso	our:	1 D:	ivi	s101						
				Southwester														
				St.	. Louis	s, M	1580	our	ĩ									

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

DEC 20 1000

Original Sheet 58

ういっちり日間

Section 7

2

Access Services Tariff

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

IC	inations End User	1	2	<u>.</u>			_	_			<u>.ce (</u>	11	12	13
	End User	1	4	2	<u>4</u>	5	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u></u>	<u>12</u>	<u>13</u>
4AH6-C(1)	4GS2			X				X						
4AH6-C(1)	2G\$3			Х		•		х						
4AH6-C(1)	2GS2	X		Х				Х						
4AH5-B(1)	4GS2			Х				Х						
4AH 5- B(1)	2GS3			Х				Х						
4AH5-B(1)	2GS2	Х		Х				X						
4AH6-D(1)	2LA2		X					X						
4AH6-C(1)·	2LA2		Х					X						
4AH5-B(1)	2LA2 .		X					Х				1	n	2 lñ
4AH6-D(1)	2LB2 .		х					х	ſ	вŊ	NIN	图	LLI	ЗU
4AH6-C(1)	2LB2		Х					Х	l	ហ្វក	160 -	,		
4AH5-B(1)	2LB2		X					X			nC	115	1991	f J
4AH6-D(1)	2LC2		X					x		3	An	N/	5	\mathbf{X}
4AH6-C(1)	2LC2		X					Х		av	21	ي ا	COM	MISS
4AH5-B(1)	2LC2		X					Х		ទុបន	LIC SE	OF MA	COM	
4AH6-D(1)	2L03		X				X							
4AH6-D(1)	2L02	Х												
4AH6-C(1)	2L03		X				X							
4AH6-C(1)	2L02	Х		•										
4AH5-B(1)	2L03		X				X							
4AH5-B(1)	2L02	X												
4AH6-D(1)	4LR2		х						-		· -, г			
4AH6-D(1)	2LR2		X						,		-	Ξ.	2	,
4AH6-C(1)	4LR2		Х						Į		•			
4AH6-C(1)	2LR2	•	Х						١.		12	4 -	1 60	1
4AH5-B(1)	4LR2		X											
4AH5-B(1)	2LR2		Х							D I	ן היי ההו	33	- 2	ე პ
e only to	IC's selecti	ng the	mul	tit	lex	ed	for	ır-u	<i>i</i> r	e Hi	ieh (арас	citv	•

Issued: DEC 2 9 1983

Effective: JAN 0 1 1994

ACCESS SERVICES

7. 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 1 1007 MISSOURI Public Service Commission

REGEIVED

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

		FI Comb IC	inations End User	.	2	3	<u>Vo</u> 4	ice 5	Gr 6	ade 7	Se 8	rvi 9	<u>ce (</u> 10	(VG) 11	12	13	
		<u> </u>	Lind User	<u></u>	2	2	Ξ	2	2	÷	2	4	<u> </u>	<u></u>	<u> </u>	<u> </u>	
¥		4AH6-D(1)	4LS 2	•	Х	X				X							
		4AH6-D(1)	2LS 2	X	X	X				Х	X						
		4AH6-D(1)	2LS 3		X	X				X							
		4AH6-C(1)	4LS2		Х	х				Х							
		4AH6-C(1)	2L S 2	X	X	х				X	X						
		4AH6-C(1)	2LS 3		X	X				X							
(RT)			—														
()		4AH5-B(1)	4LS2		X	X				X							
		4AH5-B(1)	2LS 2	X	X	X				X	X						
		4AH5-B(1)	2LS 3		X	X				X							
		4AH6-D(1)	4N 02	X	X			X	X	X		X					
		4AH6-D(1)	2N02	X	X			X		X		••					
		4AH6-C(1)	4N02	X	x			X	X	x		Х					
		4AH6-C(1)	2NO2	X	X			X		X							
		4AH5-B(1)	4N02	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				Х							
RT)		4AH6-C(1)	2RV2-T			X											
		4AH5-B(1)	4RV2-T			X			_	_X.							
(RT)		4AH5-B(1)	2RV2-T			X	6	$\overline{\mathbb{N}}$	n (f)	E		_ <u> </u> 5	U				
							G										
								JI	ŲL	1	198	36					
								<u>~</u> ~	2	0 c		5					
							BYC	<u>5'L</u>	ا مسود	5	<u>> _</u>	<u>v</u>					
			•			_	PUB	LIC S	SERV	ICE	CON	MIS	SION	되	ת ה	<u>_</u>	
	(1) Ava13	lable only to	IC's select	ing th	ne i	mul'	tip.	lexe	edori	t ords	002	Ine	H1g.	hļĢa	RACI	欧川リ	
		og facility i							nina	al .	locá	1410	on a				1
	subse	equent system	and channel	assi	gne	nt (data	а,						OCT	15	1934	
	<u></u>				·												- 1
	Issued:	AUG 1 5 1984	ļ		E	ffe	cti	ve:	0	CT	1 5	5 97	Pabli	ic Sei	rvice	Comm	ission
		12 -	-04	120	n+1	M-1		-1 1	n .	ستي 4 م ا	<u> </u>				and the second secon		
		D.	y R. D. BARR Southweste									1210	υη				
				Lou					0	mpa	Li y						

Access Services Tariff Section 7 Original Sheet 59

DEC 2 0 1003

ACCESS SERVICES

7. 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	<u>1</u>	2	3	4	5	<u>6</u>	7	8	<u>9</u>	10	11	<u>12</u>	13
4AH6-D(1)	4LS2		x	х				X						
4AH6-D(1)	2LS2	х	Х	Х				Х	х					
4AH6~D(1)	2LS3		Х	х				Х						
4AH6-C(1)	4LS2		Х	X				Х						_
4AH6-C(1)	2LS2	х	Х	Х				Х	Х		_	- <i>1</i> 98	2 1	LED
4AH6-C(1)	2LS3		Х	Х				Х		ն) W D		己山	LIGU
4AH5-B(1)	6LS2		X	Х				Х		ษ	חראו	UC		
4AH5-B(1)	4LS2		Х	Х				Х				TJC	151	484 .
4AH5-B(1)	2LS2	х	X	Х				Х	X		Į	JUI	ነሳ	
4AH5-B(1)	2LS3		X	X				Х			16	t	1	69
											, 19		\sum	
4AH6-D(1)	4NO2	Х	X			х	Х	х		x ^p	N L	SERV	ICE C	OMMISSION
4AH6-D(1)	2NC2	х	X			x		Х		8		QF	MISSO	101 0
4AH6-C(1)	4N02	x	X			Х	X	х		х				
4AH6-C(1)	2NO2	Х	X			х		X						
4AH5-B(1)	4NO2	х	Х			Х	Х	X		х				
4AH5-B(1)	2NO2	X	X			х		Х						
4AH6-D(1)	4RV2-T			Х				Х	•					
4AH6-D(1)	2RV2-T	•		х				Х						
4AH6-C(1)	4RV2-T			Х				Х						
4AH6-C(1)	2RV2-T			х				Х						
4AH5-B(1)	4RV2-T			Х				Х		•	** **	· ·		
4AH5-B(1)	2RV2-T			Х			•	Х				1	ι.	لتر،
												$J\Lambda$	<u>)</u> – .	1 19]
										•	1	83		253
-											т - 	00		n. –
											1		-	

(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.

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

By R. D. BARRON, Vice President-Missouri Southwestern Bell Telephone Company

•	No suppleme tariff will except for of cancelin	l be issued the purpos	e			Repl		Revised S	ction 7 Sheet 60	
			AC	CESS SERV	VICES			MEUE	50050	0
	7. SPECIAL	ACCESS SE	CRVICE-(Contin	ued)			ł	AUG 1	· /~~)	1 1 1 1
•	7.2 Techr	nical Servi	ce Descriptio	ons for Sp	pecial Ac	ccess S	ervice-	- (Continue	•	- - 1
	7.2.1 An	nalog Servi	.ces-(Continue	d)			Pi		e Commiss	ion
	B. Voic	e Grade Se	rvices-(Conti	nued)						
	14.	Available	Facility Int	erface (1	FI) Comb:	ination	us-(Cont	inued)		
•		FI Com	binations		Voic	e Grade	Servic	e (VG)		
		IC	End User	1 2	3 4 5	6 7			2 13	
(RT) (RT)										
(AT) (AT)		4DB 2 4DB 2 2DB 2 (2)	2DA2 4DA2 2DA2		X X X	X		x		
		4 DB 2	6DA2			x		x		
(AT)		2DB 2	2NO2		X					
、		4DB 2	4N02			Х				
(AT)		4 DB 2	2 NO 2		Х					
		4DD 3	4DE 2		X					
(CT)		4DD3	2DE 2		X					
		4DS9(1) 4DS9(1)	4A C2 2A C2	X X						
•		4DS9(1)	6DA2			Х		х		
AT)		4DS9(1)	4DA2		X					
(AT)		4DS9(1)	2DA2		Х					
		4DS9(1)	4DE 2	្រកស	เ ด เซิโ _v	ា ៤៣				
(AT)		4DS9(1) 4DS9(1)	2DE 2	Uar	BELX	۵۵۳				
		4DS9(1)	4DX 2	JL	JL 1 19	86	x			
(AT)	(2) For VG- point o	ragraph 7.3 -6, availat circuits. 	3.3, following ble only when 34	new legs	FINKETIO BECTIVE:	ëd to e	existing	•	上民D 5 ¹ 954 ice Commis	sion
		Ву	R. D. BARRON, Southwester St.	, Preside	nt-Misso elephone	uri Div Compan	vision	an de anna a tha an an Anna anna anna an Anna anna ann		

ł

į.

ł

Access Services Tariff

ጠፍሱጌ

しいしい

Original Sheet 60

DEC 2 9 1003

Public Service Commission

Public Service Comprission

Section 7

'c ';|

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

7. 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)
 - FI Combinations <u>Voice Grade Service (VG)</u> End User IC 5 4 6 7 8 9 10 <u>11</u> <u>12</u> <u>13</u> 6DA2 6DA2 Х 6DA2 4DA2 Х 4DA2 6DA2 Х 4DA2 4DA2 Х -4DB2 6DA2 Х Х Х 4DB2 4N02 4DD3 4DE2 Х 2DE2 2DD3 X 4DS9(1) 4AC2 х 2AC2 X 4DS9(1) 4DS9(1) 6DA2 Х х 4DE2 4DS9(1)Х GANGELLED 4DS9(1) 4DX2 Х 7151984 行业民间 PUBLIC SERVICE CONMIS JA!I ~ 1 1924 64 83-253
 - 14. Available Facility Interface (FI) Combinations-(Continued)

(1) See Paragraph 7.3.3, following, for explanation.

Issued:

DEC 2 9 1983

, following, for explanat

Effective: JAN 0 1 1984

By R. D. BARRON, Vice President-Missouri Southwestern Bell Telephone Company