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

CANCELLED June 29, 2007 TO-2002-185 Missouri Public Service Commission

FILED Missouri Public Service Commision

(RT)(FC)

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

## 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

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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.

Issued: February 20, 2002	Effective: March 22, 2002
By JAN NEWTON, P Southwestern Bell Telephone, L.P., d/b/a S	resident-Missouri Missouri AR-292002
St. Louis, M	

Service Commission

(CT)



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Missouri Public

**REC'D** FEB 2 0 2002

Service Commission

Access Services Tariff No supplement to this tariff will be issued Section 7 9th Revised Sheet 37 except for the purpose Replacing 8th Revised Sheet 37 of canceling this tariff. ACCESS SERVICES CANCELLEN SPECIAL ACCESS SERVICE-(Continued) 7. RECEIVED MAR 2 9 2002 7.2 Service Descriptions-(Continued) MKD AUG 26 1994 7.2.8 High Capacity Service Public Service Commission MISSOURI A. Basic Channel Description MO. PUBLIC SERVICE COMM. A High Capacity channel is a channel for the transmission of nominal 64.0 kbps(1) or 1.544 or 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by (FC)

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, (c) between a Network Reconfiguration Service Hub and a Transport Resource Management Service Hub at 1.544 Mbps transmission, or (g) between a Network Reconfiguration Service Hub and a Telephone Comapny Hub at 1.544 Mbps transmission.

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

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

B. Technical Specifications Packages

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(AT)

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Parameters
Parameters
Error-Free Seconds
X
Package HC3
X

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

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

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

Access Services Tariff No supplement to this tariff will be issued Section 7 except for the purpose 8th Revised Sheet 37 of canceling this tariff. Replacing 7th Revised Sheet 37 ACCESS SERVICES RECEIVED 7. SPECIAL ACCESS SERVICE-(Continued) 7.2 Service Descriptions-(Continued) AUG 25 1993 7.2.8 High Capacity Service MISSOURI Public Service Commission A. Basic Channel Description A High Capacity channel is a channel for the transmission of nominal 64.0 kbps(1) or 1.544 or 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by

the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub, or Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission.

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

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

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:

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

Effective: SEP 2 7 1993

(RT)

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 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

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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.

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

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B. Technical Specifications Packages

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(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.

Issued: OCT 01 1992 By A. D. ROBERTSON, Assistant Vice President-External Affairs AN 10 1993 Southwestern Bell Telephone Company St. Louis, Missouri 93-116 MO PUBLIC SERVICE COM

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

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

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.

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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.

Effective: 🛥

Issued: AUG 0 9 1991

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

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MISSOURI Public Service Commission

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

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**Public Service Commission** 

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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

			CANCELLED Package HC-
	ō	1	$\frac{10}{2} \qquad \begin{array}{c} \text{SEP 3 0 1991} \\ SEP 3 0 19$
Parameters			Public Service Commission
Error-Free Seconds		X	MISSOURI

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

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

Issued: JUN 0 4 1991

Effective: AUG 0 5 1991

FILED

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

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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 Hbps 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>0</u>	1	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Brror-Free Seconds		x				

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

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

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(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 MMSGGUR 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

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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	ō	<u>1</u>	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>	
Error-Free Seconds		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 CELLED

MAR 26 1990 BY 4 f S # 31 Public Service Commission

(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

OCT 1 \_1289<sup>00</sup>898! 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

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JUN 22 1988

MISSOURI

Public Service Commission

### 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.

- 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

	CANCELLE	)				
	CANCEL	······	Packag	e HC-		
	OCT 1 1989 BY 32 R S. # By 32 R	$3^{01}$ $\frac{1}{2}$	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Parameters	BY 3 KS	amission				
Error-Free Seco	NAISSOUR	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 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	JUL 8 1988 esident-Missouri Division JUL 8 1988
Southwestern B	ell Telephone Company uis, Missouri Public Service Commissio

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

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1st Revised Sheet	37
Replacing Original Sheet	37
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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>	<u>4</u>	
Error-Free Seconds		v					

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 Epeference PUB 62411.



(1) Available only as a channel of a 10544 Mbps facility between two Tele, 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.

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Issued:

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

Effective:

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### ACCESS SERVICES

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Section 7

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)
  - 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  $5^{\circ}$  peak-to-peak and over 4-300 Hz shall not exceed  $10^{\circ}$  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 (93) 1986 1111 1 253 ⊃ [<u>|</u>|! 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 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)

Service Commission

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 29, 2007 TO-2002-185 Missouri Public	2	N, Assistant Vice Presic stern 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:

CIBit RateDS-15(1)1.544 Mbps (DS1)DS-27274.176 Mbps (DS4)DS-313.152 Mbps (DS1C)DS-4444.736 Mbps (DS3)DS-536.312 Mbps (DS2)

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

AT) D. Service to Service Through Connect Arrangement

1. High Capacity Service Arrangement

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

2. Multiplexed Service Arrangement

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

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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

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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

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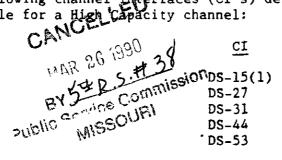
No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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 Southwestern Bell Telephone Company St. Louis, Missouri

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SEP 2 5 1989

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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

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

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

Compatible channel interfaces are set for the haragraph 7.3.5, H., following.

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

Automatic Loop Transfer BY HS HOR COMMISSION The Automatic Loop Transfer Provides protection on a 1xN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare 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 Public Service Commission

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(CP) (CP)

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### (CP)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 Biblic 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
DS-44	44.736 Mbps (DS3)	-00 5420
DS-53	6.312 Mbps (DS2)	JUL 8 1988 BY 372 R S # 38 BY Juice Commission

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2nd Revised Sheet 38

Section 7

Compatible channel interfaces are set forth in Paragruph 7. 3590)JAI 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 13544 Mbps facility to a Telephone Company Hub.

Effective:

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Issued:

JUN 27 1986

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

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### ACCESS SERVICES

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

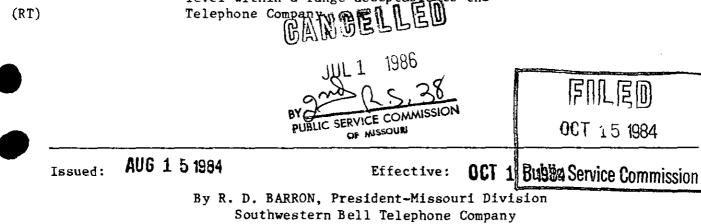
is two-wire or four-wire and the IC terminal location interface is four-wire. This service will support effective two-wire or four-wire transmission.

Ъ. **Illustrative** Applications

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

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

(RT)



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

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Access Services Tariff

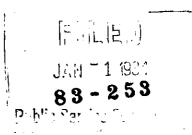
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Section 7

- 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 Tariff Section 7 6th Revised Sheet 39 Replacing 5th Revised Sheet 39

# ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE-(Continued)

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

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

2. Transfer Arrangement

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

3. Central Office Multiplexing BSE

(RT)   (RT)					
(FC)		a. DS3 to DS1			
(RT)   (RT)		An arrangement that conve channels using digital time	-	el to 28 DSl	
	Issued:	August 27, 1993	Effective:	September 27, 1993	
	By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company				

St. Louis, Missouri

CANCELLED June 29, 2007 TO-2002-185 Missouri Public Service Commission

FILED Missouri Public Service Commision

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) Optional Features, BSEs and Functions Ε.

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(AT) 1. Automatic Loop Transfer BSE

> The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare 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.

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- (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 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.

Issued: MAR 2 6 1993

Effective:

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SEP 25 1993

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

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## 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.

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- 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 Nbps channel to four DS1 channels using digital time division multiplexing.

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

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

### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

SEP 2 5 1989

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 SE 39 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. 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

SEP 2 5 1989

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

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

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MISSOURI Public Service Commission

7. SPECIAL ACCESS SERVICE-(Continued)

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 DSl 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

Effective: OCT 1.6 1987.

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

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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 multiplevice in Commit DS1 channels using digital time division multiplexing. Service Commission DS1 to DS1 . DS1C to DS1 .

Access Services Tariff

Replacing Original Sheet 39

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1st Revised Sheet 39

Section 7

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 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 .-

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

Effective:

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
  - 7.2.1 Analog Services-(Continued)
  - 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 37 43 401 - 100039 45

- Echo Control

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

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

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Effective: JAN 0 1 1984

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

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

# ACCESS SERVICES

	7. SPEC	CIAL ACCESS SERVICE-(Continued)	
	7.2 Ser	ervice Descriptions-(Continued)	
	7.2.8	B High Capacity Service-(Continued)	
	E. 0	Optional Features, BSEs and Functions-(Continued)	
	3.	3. Central Office Multiplexing BSE-(Continued)	
(RT)     (RT)			
(FC)		b. DSl to Voice	
		An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel of this DSI to the Hub can also be used for a MegaLink Data, Metallic Service, DovLink or WATS Access Lines.	
(FC)		c. DSI 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.	4. Clear Channel Capability BSE	
		Clear Channel Capability is an optional feature that provides the customer with an in useable bandwidth from 1.344 Mbps to 1.536 Mbps of an unconstrained data stream network. Clear Channel Capability is provided only on 1.544 Mbps High Capacity s requires the customer signal at the channel interface to conform to Bipolar with Eigh Substitution (B8ZS) line code format as set forth in the technical reference for high c the end of Paragraph 7.2. Customer equipment must be compatible with this method of providing the unconstrained signal.	across the ervice and t Zero capacity at
	Issued:	August 27, 1993Effective:September 27, 1993	
		By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company	

St. Louis, Missouri

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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)

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- MISSOURI (AT) 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 eth 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.

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

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

### ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
  - 7.2 Service Descriptions-(Continued)
  - 7.2.8 High Capacity Service-(Continued)
  - E. Optional Features 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. DSl to Voice

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

f. 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 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

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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)

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- 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

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

DEC 4 1992 BY 3rd R.S.

Public Service Commission MISSOURI

### 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 Bight Zero Substitution (B8ZS) line code format as set forth in the technical reference for high capacity at the end of Paragraph 7.2. Customer equipment must be compatible with this method of providing the unconstrained signal.

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

Public Service Commission

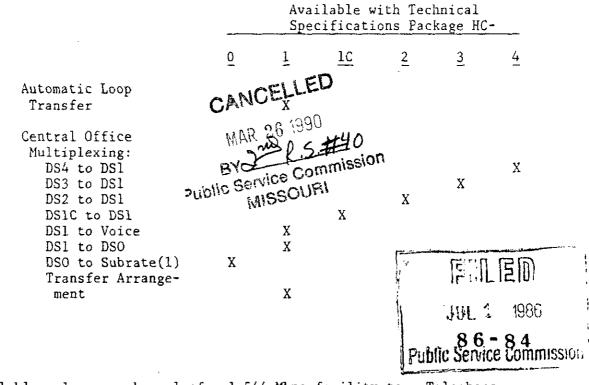
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(CP)ACCESS SERVICES

- 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.

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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

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Public Service Commission

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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")

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		JUL 1 1986 BY ChR.S.40 PUBLIC SERVICE COMMISSION
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 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.

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

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

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

(AT) existing customers.

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June 29, 2007

TO-2002-185

**Missouri Public** 

Service Commission

Issued: August 26, 1994

Effective: September 26, 1994

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

FILED Missouri Public Service Commision

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

### 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)

(AT) 5. Extended Superframe Format BSE

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

6. Power Over The Interface

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

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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

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ACCESS SERVICES

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

APR 2 0 1990

MISSOURI Public Service Commission

(AT) 5. Extended Superframe Format

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

6. Power Over The Interface

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

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Issued: MAY 0 7 1990

Effective: JUN 0 6 1990

By R. D. BARRON, President-Missouri Division 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 and Functions-(Continued)

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

0

1

Issued: FEB 2 2 1990	Effective:	MAR 2 6 19	90	FILED
(1) Available only on a channel of a Company Hub.	1.544 Mbps fa	cility to a	Telephone	
Capability	X	թսթլ	JUN 6 BY ALR ic Service MISSO	1990 544 40.01 Commission
Transfer Arrange- ment Clear Channel	X		CANCEL	LED
DSO to Subrate(1)	X			
DSl to Voice DSl to DSO	X X			
DS2 to DS1 DS1C to DS1		x	X	
DS3 to DS1			x	K (
Multiplexing: DS4 to DS1				x
Central Office				
Transfer	X			
Automatic Loop				

Access Services Tariff Section 7 Original Sheet 40.01

Available with Technical Specifications Package HC-

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4

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

Public Service Commission.

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

(CP)

(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.

Issued:	August 26, 1994	Effective:	September 26, 1994	
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St. Louis, Missouri

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

#### 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-

Issu	ued: AUG 2 7 1993		]	Effective	SEP 2 7 1993
(1)	Available only on a cha Company Hub.	nnel of a l.	.544 Mbps	facility	Public Service Commiss
					SEP 2 7 1993
					FILED
	Interface		X		
	Format Power Over the		Х		
	Capability Extended Super:	frame	Х		
	ment Clear Channel		Х		PUDIC MISSUUM
	Transfer Arrang		v		SEP 261994 BY 6 U. R.S. # H Public Service Commission MISSOURI
	DS1 to DS0 DS0 to Subrate	e(1) X	Х		SET I. R.S. " 4
	DS1 to Voice		x		261994
	DS3 to DS1			X ·	CANCELLED
	Central Office Multiplexing:				
	Automatic Loop Transfer		x		
		<u>0</u>	<u>1</u>	3	

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Section 7

Access Services Tariff

Replacing 4th Revised Sheet 41

5th Revised Sheet 41

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

### ACCESS SERVICES

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#### 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.

					th Techn is Packa	
	<u>0</u>	<u>1</u>	<u>1C</u>	2	<u>3</u>	<u>4</u>
Automatic Loop						
Transfer		х				
Central Office						
Multiplexing:						
DS4 to DS1						Х
DS3 to DS1					X	
DS2 to DS1				Х		
DS1C to DS1			X			
DSl to Voice		Х				
DSl to DSO		Х				
DSO to Subrate(1)	X					
Transfer Arrange-						-
ment		X			CANCE	LLED
Clear Channel						
Capability		X				-
Extended Superframe		-				5 1993
Format		X			SEPE	~ c # H
Power Over the					(Th)	5.2.
Interface		X		B	Y 2	e Commi
		••		Pub	lic Seiva	5 199] 9.5.#4 Se Commi SOURI
				•	WIC	,

(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.

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

### ACCESS SERVICES

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

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7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

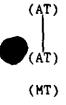
MISSOURI Public Service Commission

E. Optional Features and Functions-(Continued)

(MT)

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

			ilable w cificati			2-
	<u>0</u>	<u>1</u>	<u>1C</u>	2	<u>3</u>	4
Automatic Loop Transfer		X				
Central Office Multiplexing: DS4 to DS1 DS3 to DS1 DS2 to DS1 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 ANCE APR 11 SY <u>小林</u> Service MISS	1993 J	her htt
					ILED	
				JUN	<b>6</b> 199	90
			Pub	lic Servi	ice Cor	nmissior
(1) Available only on a channel of a Hub.	1.544 Mt	ops fac	ility to	a Tele	phone (	Company



Issued: MAY 0 7 1990

Effective: JUN 0 6 1990

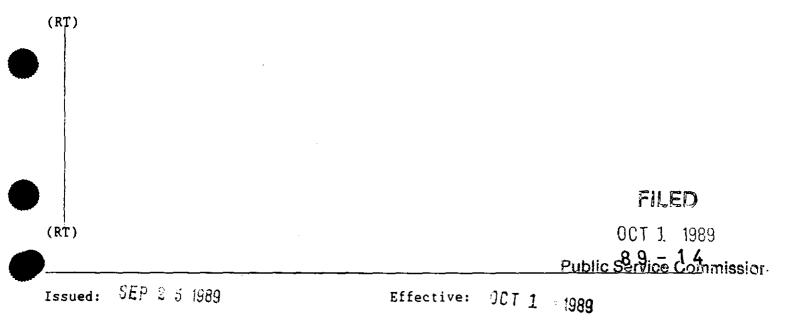
Access Services Tariff Section 7 2nd Revised Sheet 41 Replacing 1st Revised Sheet 41 Original Sheet 41.01 1st Revised Sheet 42 2nd Revised Sheet 43 1st Revised Sheet 44 1st Revised Sheet 45 1st Revised Sheet 46 2nd Revised Sheet 47 Publichde Revesed Shee 8128 1st Revised Sheet 49 through 1st Revised 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

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(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.



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## (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 with iterface codes and net with iterface codes that the IC must specify when ordering Specify iterface commission included is an available which available the sector of the sector o Included is an example which explains the specific-characters. of the code, a glossary of channel interface codes, impedance levels, network channel codes and compatible channel interfaces.

Example: If the 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  $\underline{1}$ data (30 baud)

Public Convice Commission 7.3.1 Glossary of Channel Interface Codes and Options CRUCEDURI 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

JHL 1 1985 **86 - 84** Service Commission

TG1 and TG2

Access Services Tariff

JUN 27 1986

Section 7

Sheet

Issued: JUN 27 1986

#### 1 1986 Effective:

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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)
        - Echo Control-(Continued) .

#### Effective Four-Wire Transmission

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

	Echo Return Loss	Singing <u>Return Loss</u>
Two-Wire Interface		
(Return Loss) • Four-Wire Interface	24 dB	18 dB
(Equal Level Echo Path Loss)	20 dB	14 dB

- Improved Return Loss

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

Stan	dard	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  $\pm 1.5$  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 dess loss, plus equals more loss). The attenuation distortion between 304 Hz and 3004 Hz shall be within -1.0 dB and+5 0 dB. All 1984 **83-253** 

- Signal-to-C Notch Noisell 1 1986 The Signal-to-C Notch holdsecratic shall not be less than 30 dB. BY \_\_\_\_\_\_ PUBLIC SERVICE COMMISSION OF MISSOURI

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

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.

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

CANCELLED June 29, 2007 TO-2002-185 Missouri Public Service Commission

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 Originl Sheet 62 1st Revised Sheet 63 2nd Revised Sheet 64 through 2nd Revised Sheet 67

#### ACCESS SERVICE

(MT)

7. SPECIAL ACCESS SERVICE-(Continued)

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

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DEC 4 1992 BY 2 \*\* 41.01 Public Service Commission MISSOURI

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JUN 6 1990

Public Service Commission

Issued: MAY 0 7 1990

Effective: JUN 0 6 1990

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

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Effective:

JUL 1 1986

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

(AT)

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June 29, 2007

TO-2002-185

Missouri Public

Service Commission

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

> FILED Missouri Public Service Commision

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except for the purpose		lst Revised Sheet 42
of canceling this tariff.	Rei	lacing Original Sheet 42
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7. SPECIAL ACCESS SERVICE	E-(Continued)	
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7.3 Channel Interface an	nd Network Channel Codes-(Conti	nued) 30N 27 1900
	•	
7.3.1 Glossary of Chann	nel Interface Codes and Options	Public Service Commission
Code Option	Definition	
DS -	digital hierarchy interface	
- 15	1.544 Mbps (DS1) format per PU	
- 15E	8-bit PCM encoded in one 64 kt	
- 15F	8-bit PCM encoded in two 64 kH	
- 15G	8-bit PCM encoded in three 64	
· - 15H	14/11-bit PCM encoded in six 6	
- 15J	1.544 Mbps format per PUB 4145	
- 15X	1.544 Mbps format per PUB 4145 format	of plus extended framing
- 15L	1.544 Mbps (DS1) with SF signa	lino
- 27	274.176 Mbps (DS4)	
- 27L	274.176 Mbps (DS4) with SF sig	maling
- 31	3.152 Mbps (DS1C)	
- 31L	3.152 Mbps (DS1C) with SF sign	aling
- 44	44.736 Mbps (DS3)	
- 44L	44.736 Mbps (DS3) with SF sign	aling
- 63	6.312 Mbps (DS2)	-
- 63L	6.312 Mbps (DS2) with SF signa	ling



Issued: JUN 27 1989

Effective: JUL 1 1000

Access Services Tariff

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Original Sheet 42

Section 7

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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.

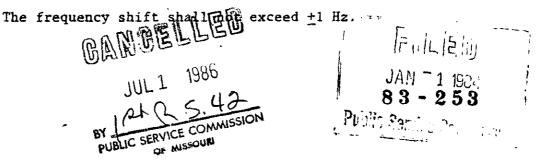
- Intermodulation Distortion

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  $5^{\circ}$  peak-to-peak and over 4-300 Hz shall not exceed 10° peak-to-peak.

- Frequency Shift



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Access Services Tariff Section 7 5th Revised Sheet 43 Replacing 4th Revised Sheet 43

# ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

# (RT)

(RT)

Issued: January 10, 1997

February 10, 1997

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

CANCELLED June 29, 2007 TO-2002-185 Missouri Public Service Commission

FILED Missouri Public Service Commision

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

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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 () Video II.

#### Business Video I

Business Video I is a digital channel capable of two way two point video/audio transmission. This video convice in multiplication broadcast quality video, but has less stringent technical parameters and it has some noticeable motion impairment. The bandwidth for Business Video I is 384 kbps.

### Business Video II

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

Effective:

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Issued: FEB 0 9 1993

APR 1 9 1993

APR 1 9 1993

PUBLIC SERVICE COMM.

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

Access Services Tariff Section 7 3rd Revised Sheet 43 Replacing 2nd Revised Sheet 43 1st Revised Sheet 44 ACCESS SERVICES 1st Revised Sheet 45 1st Revised Sheet 46 RECEIVED 2nd Revised Sheet 47 2nd Revised Sheet 48 1st Revised Sheet 49 OCT 5 1992 Through 1st Revised Sheet 54 MC. PUBLIC SERCICE COMIZnd 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

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Issued: OCT - 5 1992

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Effective:

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

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7. SPECIA	AL A(	CES	S SERVI	CE-(Continued) JUN 27 1986
7.3 Char	nnel	Int	erface	and Network Channel Codes-(Continued) MISSUURI
7.3.1 (	Gloss	sary	of Cha	nnel Interface Codes and Options- Cubio Service Commissio
<u>(</u>	Code	<u>0</u>	ption	Definition
	DU	-		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
			C	framing format
	DX	-		duplex signaling interface at IC POT
	DY	-		duplex signaling interface at End User's POT
	ΕA	- E		Type I E&M Lead Signaling. IC at POT or End User
				at POT originates on E Lead.
	EA	- M		Type I E&M Lead Signaling. IC at POT or End User
	<b>T</b>	*		at POT originates on M Lead.
	EB	- E		Type II E&M Lead Signaling. IC at POT or End User
	EB	- M		at POT originates on E Lead. Ture II FSM Load Signaling IC at BOT or End Upon
	μ.υ	. 11		Type II E&M Lead Signaling. IC at POT or End User at POT originates on M Lead.
	EC	-		Type III E&M signaling at IC terminal POT
	ĒΧ	- A		tandem channel unit signaling for loop start or
				ground start and IC supplies open end (dial tone,
				etc.) functions.
	ΕX	- B		tandem channel unit signaling for loop start or
				ground start and IC supplies closed end (dial tone,
				etc.) functions.
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Issued: JUN 27 1986

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Access Services Tariff Section 7 1st Revised Sheet 43 Replacing Original Sheet 43

### ACCESS SERVICES

7.	SPECIAL	ACCESS	SERVICE-(	(Continued)
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SILCIAL ROOLDD SERVICE- (Concluded)	
7.2 Technical Service Descriptions for Special Access Servic	
7.2.1 Analog Services-(Continued)	AUG 1 1 KUY
B. Voice Grade Services-(Continued)	MISSOURI
7. Voice Grade 7 (VG7) Special Access Service-(Continu	eaublic 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
  - Description а.

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

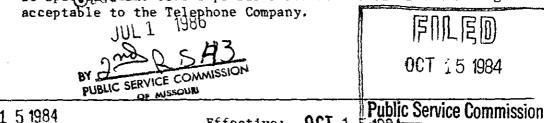
b. Illustrative Application

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

- SSN Access Line - SSN Station Line

c. Optional Features

- C-Condition - IC spectfilebullebu User's premises receive level within a range



OCT 1 5-1984

Effective:

AUG 1 5 1984 Issued:

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

VG7 is available only with specific facility methage ELLED combinations as set forth in Paragraph 7.2.1, 9.14., 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 wi 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

OCT 1 5 1984 SFRS SERVICE COMMISSION OF MISSOURI

83-253 Public Service Communities

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Access Services Tariff

Original Sheet 43

Section 7

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 44 Replacing 2nd Revised Sheet 44

# ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

(RT)

Issued: January 10, 1997

February 10, 1997

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

CANCELLED June 29, 2007 TO-2002-185 Missouri Public Service Commission

FILED Missouri Public Service Commision

Access Services Tariff Section 7 2nd Revised Sheet 45 Replacing 1st Revised Sheet 45 1st Revised Sheet 46 ACCESS SERVICES 2nd Revised Sheet 47 **MECINED** 2nd Revised Sheet 48 1st Revised Sheet 49 Through 9 1993 FEB 1st Revised Sheet 54 2nd Revised Sheet 55 MICEDIEI Through Public Commine 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

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APR 19 1993

Issued: FEB 0 9 1993

APR 1 9 1993 DINNE SERVICE Effective:

No supplement to this

tariff will be issued

except for the purpose

of canceling this tariff.

CANCELLED June 29, 2007 TO-2002-185 Missouri Public Service Commission 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.

Section 7 "Ist Revised Sheet-45-Replacine Off Phall Sheet 145 NGUCIVE

Access Services Tariff

JUN 27 1986

# (CP)ACCESS SERVICES

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

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

7.3.1 Glossary of Channel Interface Codes and Options-(Co

Code		Option	Definition
NO	-	S	no signaling interface, transmission only 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
	-	5	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 opera-
			tion, terminate function by IC or End User
SF	-		single frequency signaling within VF band at
			either IC POT or End User's POT
TT	-		telegraph/teletypewriter interface at either
			IC POT or End User's POT
	~	2	20.0 milliamperes
	-	3	3.0 milliamperes
	-	6	62.5 milliamperes
WA	-		wideband bandwidth interface at End User's POT
	-	1	limited bandwidth
	-	2	nominal passband from 29,000 to 44,000 Hz
WB	-		wideband data interface at IC POT
	-	185	18.75 kbps, synchronous
	~	19A	up to 19.2 kbps asynchronous
	-	195	19.2 kbps synchronous
	-	23A	up to 230.4 kbps, asynchronous
	-	235	230.4 kbps, synchronous
	-	40S	40.8 kbps, synchronous
	-	50A	up to 50.0 kbps, asynchronous
	-	50S	50.0 kbps, synchronous
			JUL 1 1986
			86-84

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

Issued: JUN 27 1986

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

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

#### Effective Four-Wire Transmission

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

	Echo	Singing
	<u>Return Loss</u>	<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	ard	RL		Imgr	ered	<u>RL</u>
<u>Stand</u> ERL SRL	රා	<b>BBINI</b>	25	RIL	已初	dB
SRL	2.5	<b>BBIRI</b>	শত	SRL	13.5	$d\mathbf{B}$

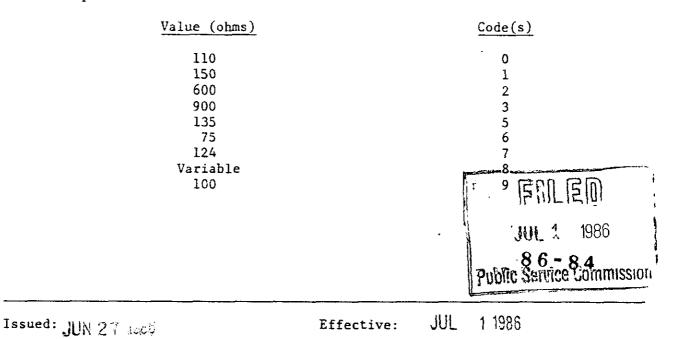
- Loss Variation

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 within -1 0 dB and +2 0 dB within 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 1st 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) **WISSORKI** 7.3.1 Glossary of Channel Interface Codes and Options Commission Code Option Definition WC wideband data interface at End User's POT 18 18.75 kbps, synchronous 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

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#### ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued) 7.
- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
  - 7.2.1 Analog Services-(Continued)
  - Voice Grade Services-(Continued) Β.
    - 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  $4^{\circ}$  peak-topeak and over 4-300 Hz shall not exceed 9° peak-to-peak.

JUL 1. 1986

PUBLIC SERVICE COMMISSION OF MISSOURI

- Frequency Shift 山也し 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

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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	
MTI	NT	
MT2	NU	
MT3	NV	
TGC	NQ	
TG1	NŴ	
TG2	NY	
VGC	LQ	
VG1	LB	
VG2	LC .	FALED
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Issued: JUN 27 1986

Effective: JUL 1 1986

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

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#### 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 BAR BELOREE many.
- Improved return loss at four-wire point of interface, applicable to each two-wire leggof effective four-wire channel.

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		BY CHEVICE COMMISSION		0CT 15 1984
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Issued:	NON T 9 104	Effective:	UCI	1 5,1984 Public Service Commission
	By R. D	. BARRON, President-Missour:	í Dív	Ision
	So	uthwestern Bell Telephone Co	omnan	17

St. Louis, Missouri

Access Services Tariff Section 7 Original Sheet 47

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#### 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) 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.

- c. 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

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

# ACCESS SERVICES

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

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

	Service Desig	gnator	Network Channel Code			
	VG3 VG4 VG5 VG6 VG7 VG8 VG9 VG10 VG11 VG12 VGW VGW VGW VGW VGW APC AP1 AP2 AP3 AP4 WA1 WA11 WA11 WA11 WA2 WA3 WA4 WD1 WD2 WD3 DA1 DA2 DA3 DA4 HCO HC1 HC2			LD LE LF LG LH LJ LN LN LP LR SE (star	dard) oved)	FILED
	HC3 HC4			HF HG	Public	0CT 16 1987 To-87-43 Service Commissior
Issued:	OCT 1 4 1987		Effective:	DCT 16		
	By R	. D. BARRON, P Southwestern B St. Lou	resident-Misso	ouri Divis:		

Access Services Tariff

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

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### (CP)ACCESS SERVICES

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

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

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

Service Designator Code	Network Channel	
Code           VG3           VG4           VG5           VG6           VG7           VG8           VG9           VG10           VG11           VG12           APC           AP1           AP2           AP3           AP4           WA1           WA2           WA2A           WA3           WA4           WD1           WD2           WD3           DA1           DA2           DA3           DA4           HCO	Code LD LE LF LG LH LJ LK LN LN LP PQ PE PF PJ PK WJ WQ CANCELLED OCT 10 1987 WR WD CANCELLED OCT 10 1987 WR WP Public Service Commis MISSOURI WF XA XB XG XH HS	ision
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Effective: JUL 11230

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

The C-Message Noise shall be less than:

	Limit (dBrnCO)(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	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 Ishall, 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 NGELLED 83-253 more loss). n <sub>I</sub>BR⇔

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

DEC 2 9 1983 Issued:

No supplem	ent to this			Access Services Tariff
	l be issued			Section 7
	the purpose			1st Revised Sheet 49
of canceli	ng this tariff.			Replacing-Original_Sheet_49
		(CP)ACCES	S SERVICES	REGEIVED
7. SPECIA	AL ACCESS SERVIC	E-(Continued	)	JUN 27 1986
7.3 Chan	nel Interface a	ind Network C	hannel Codes-(Co	ntinued)
7.3.5 Co	ompatible Channe	l Interfaces		MISSUUKI Public Service Commission
ТЪ	ve following tab	les show the	interface codes	(CI's) which are compatible
11	ic following cut	tes show one	THOUTTON COOC	(or b) which are comparise
A. M	fetallic			
	Compatibl	le CI's	Compatit	ole CI's
	4AH5-B**	2DC8-1	4AH6-D**	2DC8-2
	4AH5-B**	2DC8-2	2DC8-1	2DC8-2
	4AH6-C**	2DC8-1	2DC8-3	2DC8-3
	4AH6-C**	2DC8-2	4DS9*	2DC8-1
	4AH6-D***	2DC8-1	4DS9*	2DC8-2

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

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Effective: JUL 1 1986

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JUL 1 1986

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

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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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  $3^{\circ}$  peak-to-peak and over 4-300 Hz shall not exceed  $8^{\circ}$  peak-to-peak.

- Frequency Shift

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Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

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

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(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)

B. Telegraph Grade

Compatible CI's		Compatib	Compatible CI's		Compatible 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**	10IAS	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		2TT2-6	
4AH6-D**	10IA8	4DB2-10	4TT2-2	2TT2-6		4TT2-2	
_		4DB2-10	2TT2-6			····	
4AH6-D**	2TT2-2	4DB2-43 +		4TT2-2		4TT2-2	
4AH6-D**	4TT2-2	4DB2-43 +	2TT2-6				
4AH6-D**	2TT2-6	2		4TT2-6		4TT2-6	

\* 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 assignment data.
+ Supplemental channel assignment information required. Public Service Commission ++ Available to existing customers only.

Issued: JUN 27 1986

Effective: JUL 1 1988

#### ACCESS SERVICES

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Original Sheet 50

Access Services Tariff

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

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Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

Access-Services Tariff

Replacing Original Sheet 51

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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-(CANTIONSERVICE Commission

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade

Compatible CIs		Compatib:	le CIs	Compatible CIs		
4 <u>AB</u> 2	4AB2	4AR5-B+	2013	4AE6-D+ 4DE2		
4 <u>4</u> 82	2ACZ	4AH6-C+	2013			
4AB2 4AB2	ZACZ ZACZR	4AE6-D+	2CT3	4AH5-B+ 4DX2		
4452		here a	0010	4AH6-C+ 4DX2		
	4AC2	4A85-B+	20A2	4AH6-D+ 4DX2		
4AB2	4AC2R	4AR6-C+	2DA2			
1450	1000	4AH6-D+	2DA2	4A75-B+ 4DY2		
4AB2	4SF2	4AH5-B+	4DA2	4AH6-C+ $4DY2$		
		4AH5-3+	4DA2S	4AH6-D+ 4DY2		
2AC2	2102	4AH6-C+	4DA2			
2AC2	4AC2	44E6-C+	4DA2S			
4AC2	4AC2	4AH6-D+	4DA2			
• •	•	4AH6-D+	4DA2S			
4AH5-B+	4432	4AH5-B+	6DA2			
4AH6-C+	4AB2	4AH5-B+	6DA2S			
4AH6-D+	4AE2	4АНб-С+	6DA2			
		4AH6-C+	6DA2S			
4AH5-B+	2AC2	4АНБ-D+	6DA2	4AH5-B+ 4EA2-E		
4AH5-B+	2AC2R	4AE6-D+	6DA2S	4AH5-B+ 4EA2-M		
4AH6-C+	24C2					
4AH6-C+	24C2R	4AH5-B+	4DB2	4анб-с+ 4еаг-е		
44H6-D+	2402	чанб-с+	4DB2	ЧАНБ-С+ ЧЕА2-м		
4ah6-d+	2AC2R	4AE6-D+	4DB2			
4ah5-b+	4AC2			4AH6-D+ 4EA2-E		
4AH5-B+	4AC2R	4AH5-B+	2DE2	4AH6-D+ 4EA2-M		
4анб-с+	<b>4AC2</b>	чанб-с+	2DE2	4AH5-B+ 6EA2-E		
4анб-с+	4AC2R	4AH6-D+	2DE2	4AH5-BE DEAZ-M		
4AH6-D+	4AC2	4AH5-B+	4DE2	4AH6-CF (6EA2LE)		
4AH6-D+	4AC2R	4анб-с+	4DE2	4AH6-C+ 6EA2-M		
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+ Available to customers selecting the multiplexed four-wire-high capacity analog channel interface option and providing subsequent system and channel assignment data.

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

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 「Original Sheet S1 」「ビジビ」」、「ビリ

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Public Service Commission

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

	<u>Limit (d</u>	<u>3rnCO)(1)</u>
Channel Mileage (mi)	Type Vl	Type V2
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	. 37	43
401 - 1000	39	45

- Improved Return Loss

The Return Loss (RL), expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), on two-wire ports of a four-wire point of interface shall be equal to or greater than: F. L [2].)



(1) Where facility network conditons will support the parameters, Type V1 will be provided. Where the Type V12badameters cannot be supported, Type V2 will be provided. PUBLIC SERVICE COMMISSION OF MISSOURI

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Effective: JAN 0 1 1984

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

### (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)

Compatible	CI3	Compatible	CIS	Compatible	CIS
4AE6-D+ 6	5e42-e	4AE6-C+	2GS3-C	4AH6-C+	2L.R2
4AH6-D+ (	Sea2-M	4AE6-C+	2GS3-M	4AH6-D+	2L.R2
		4AH6-D+	2GS2	4AR5-8+	4LR2
4AE5-8+ (	5292-2	4 <u>AH6-D+</u>	2GS2-M	4AH6-C+	4LR2
4AE5-B+ 6	SEB2-M	4AE6-D+	2953	4AE6-D+	4LR2
44E6-C+ (	5E32-E	4анб-d+	2GS3-C		
<u>4А∃б-С+</u> б	5E32-M	чанб-d+	2GS3-M	4AE5-B+	21.52
4AH6-D+ (	5EB2-E	4 <u>a=</u> 5-b+	4GS2	4 <u>AH5</u> -B+	2LS2-M
4AH6-D+ (	Seb2-M	4анб-с+	4GS2	4aff-B+	2LS3
4AH5-B+ 8	SEB2-E	4деб-d+	4GS2	4AH5-B+	2LS3-M
4AE5-B+ 8	8e32-M	4A35-B+	6GS2	4AE6-C+	2LS2
4AE6-C+ 8	8282-2	4анб-с+	6GS2	4анб-с+	2LS2-M
4AH6-C+ 8	BEB2-M	4анб-d+	6GS2	4AH6-C+	2LS3
4436-D+ 8	8EB2-E			44H6-C+	2LS3-M
4AH6-D+	8eb2-M	4AE5-B+ ·	21.12	4днб-д+	2LS2
		4AH6-C+	21.42	4AH6-D+	2LSZ-M
		4AH5-D+	2LA2	4анб-D+	2LS3
				4АН6 D+-	2LS3-M
		4AH5-B+	21.32	4AE5-B+	4LS2
		44E6-C+	21.32	4AE5-C+	4LS2
		4анб-d+	2LB2	4днбD+	4LS2
				4AH5-B+	2N02
4A25-3+	2003	4AH5-B+	2LC2	чанб-с+	2N02
4AH6-C+	2603	44E6-C+	2LC2	4AH6-D+	2NO2
4AH6-D+	2603	4AH6-D+	2LC2	4A <i>R</i> 5B+	4N02
				4ae5- <b>8+</b>	4N02-S
4AH5-B+	2GS2	4af5-8+	21.03	ЧАН6-С+	4NO2
		4AE6-C+	2L03		4N02-5-100 000
		4AH6-D+	21,03	4AH6-D+	
	2653-C			4AH6-D+	
-	2GS3-M			4AH5-B+	2PR2, 104 1 1000
	2652			4AH6-C+	2PR2 JUL 1 1986
	2652-M			4AH6-D+	2PR2 86-84
4AE6-C+	2GS3	4AH5-B+	2L.72	4AH5-B+	HPR2 Service Commission
to customer a		the multi-	alared for		I UDIO OCIVICO OCIUIIODIUI

+ 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

JUL 1 1986 Effective:

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

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Access Services Tariff

Section 7 Red Public Service Commission

# Access Services Tariff Section 7 Original Sheet 52

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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.

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JUL 1 1986 PUBLIC SERVICE COMMISSION OF MISSOURI

DEC 2 9 1983 Issued:

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By R. D. BARRON, Vice President-Missouri Southwestern Bell Telephone Company St Louis Missouri P.S.C. Mo.-No. 36

(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 的自己 12 JUN 27 1986 7.3 Channel Interface and Network Channel Codes-(Continued) MISSUURI **Public Service Commission** 

C. Voice Grade-(Continued)

SPECIAL ACCESS SERVICE-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

Compatibl	Le Cla	<u>Compatib</u>	le CIS	<u>Compatib</u>	<u>le Cls</u>
4AH6-C+	4PR2	2013	8EB2-M	2DB2	2N02
4AH5-D+	4PR2			4DB2	2N02
		2CT3	8EC2	4DB2	4102
4AE5-B+	2RV2-T			4DB2	4N02-S
4АНб-С+	2RV2-T	2013	4SF2		
4A76-D+	2972-T			2DB3 -	29R2
4AH5-B+	4772-T	2DA2	2DA2	4082	2PR2
4AH6-C+	4RV2-T	4DA2	2DA2	4DB2	4PR2
4AH6-D+	4RV2-T	4DA2-S	2DA2		
		4DA2	4DA2	4003	2DE2-
4AH5-B+	2772	4DA2	4DA2-S	4DD3	4DE2
ЧАН6-С+	2772	4DA2-S	4DA2-S		
4анб-D+	2TF2	6DA2	2DA2	4DS9	4 <u>A</u> B2
4a85-8+	4TF2	6da2-s	2DA2		
чаеб-с+	4TF2	6DA2	4DA2	4ds9-#	2AC2
4анб-d+	4TF2	6DA2	4DA2-S	4DS9	2AC2-R
		6da2-s	4DA2	4DS9 <b>-</b> *	4AC2
2013	2CT3	6DA2-S	4DA2-S	4DS9 <b>-</b> ₽	4AC2-R
		6DA2	6DA2		
		6DA2	6DA2-S	4DS9 <b>-</b> *	2013
2CT3	4DX2	6da2-s	6da2-s		
				4DS9-=	2DA2
2013	4EA2-E	2DB2	2DA2	4DS9	4DA2
2013	4EA2-M	4DB2	2DA2	4DS9	4DA2-S
2013	6EA2-E	4DE2	4DA2	4DS9	5DA2
2013	6EA2-M	4DB2	4DA2-S	4DS9 <b>-</b> ₽	6DA2-S
		4DB2	6DA2	Į.	THE THE
2013	6EB2-E	4DB2	6DA2-S	4DS9_#	4DB2 5 5 5
2CT3	6EB2-M			4DS9	2DE2 TUILICIU
2 <b>CT</b> 3	8EB2-E	4D82	4D82	4DS9	4 <b>DE2</b> JUL <b>1</b> 1986
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	nalas ste	ting the	multinleve	d four-wir	ephigh (capacity an and channel assign

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

JUN 2 7 1986 Issued:

11395 Effective:

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

### ACCESS SERVICES

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DEC. 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  $10^{\circ}$  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.

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Effective: JAN 0 1 1984

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

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

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### (CP)ACCESS SERVICES

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

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

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MISSUURI Public Service Commission

JUN 27 1986

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C. Voice Grade-(Continued)

	Compatib	<u>le CIs</u>	Compatib	le CIS	Compatib	le CIs
	4DS9-#	4DX2	4DS9 <b>→</b> *	21.03	4DX2	6EA2-E
	-			-	4DX2	6EA2-M
	4DS9	4DY2	4DS9-*	2L.72	-	
			4DS9_₹	4L.R2		
					4DX2	6EB2-E
			4DS9-*	2LS2	4DX2	6EB2-M
			4DS9_#	2LSZ-M	4 <b>D</b> X2	SEBZ-E
	4059-*	4EA2-E	4DS9-*	2L.S3	4DX2	8EB2-M
	4DS9-*	4EA2-M	4DS9#	2LS3-M		
	4DS9-*	6EA2-E	4DS9-*	4LS2	4DX2	8EC2
	4DS9-*	6EA2-M				
	-		4DS9_*	2N02	4DX2	2LS2
	•		4DS9-*	402		
	4DS9-*	6EB2-E	4DS9-*	4N02-S	4DX2	2RV2-T
	4DS9_₹	6EB2-M			4DX2	4RV2-T
	4DS9-*	8E32-E	4DS9 <b>-</b> ≇	2PR2		
	4DS9#	8EB2-M	4DS9-#	4PR2	40 <u>x2</u>	4SF2
	4DS9-*	2603	4DS9-#	2372-T	6EA2-E	4DY2
			4DS9 <b>-</b> ₹	4RV2-T	6EA2-M	4DY2
	4DS9	2GS2				
	4DS9	2GS2-M	4DS9-#	4SF2		
	4DS9-*	2GS3				
	4DS9-*	2GS3-C	4DS9-=	21F2		
	4DS9	2GS <b>3-M</b>	4DS9-*	4TF2		
	4dS9 <b>→</b> ª	4GS2				
	4DS9-*	6GS2	4 <b>DX2</b>	4DX2	4еа2-е 4еа2-е	4ea2-e 4ea2-m
	4DS9_₽	2LA2	4DX2	4DY2	4EA2-M	4EA2-M
	4DS9-*	ZLBZ			6EA2-E	4EA2-E
			4DX2	4EA2-E	6EA2-E	1512 M
	4DS9-*	2LC2	4DX2	4EA2-M	6EA2-M	HEASE LED
						Jut. 1 1986
* 4DS9-15, 4DS	9-31, 4DS	0-63, 4DS	6,44, 4DS	6,27		86-84
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St. Louis, Missouri

## Access Services Tariff Section 7 Original Sheet 54

### ACCESS SERVICES

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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)
    - Voice Grade 11 (VG11) Special Access Service Reserved For Future Use
    - 12. Voice Grade 12 (VG12) Special Access Service Reserved For Future Use
    - 13. Voice Grade 13 (VG13) Special Access Service Reserved For Future Use

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

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No supplement to this tariff will be issued except for the purpose of canceling this tariff. Repl	Access Services Tariff Section 7 2nd Revised Sheet 55 acing 1st-Revised-Sheet-55 IDE RENNED
(CP)ACCESS SERVICES	REGEIVED
7. SPECIAL ACCESS SERVICE-(Continued)	JUN 2 7 1986
7.3 Channel Interface and Network Channel Codes-(Con	(tinued) MISSUURI
7.3.5 Compatible Channel Interfaces-(Continued)	Public Service Commission

.Compatible CIs Compatible CIs Compatible CIs 4SF2 8EB2-M 4RV2-T 4EA2-E 4EA2-M 6EA2-M 6EA2-E 4SF2 4EA2-M 6EA2-E 4SF2 6EB2-E 4SF2 6EA2-M 6EA2-E 6EA2-E 4SF2 6EB2-M 4SF2 6EA2-M 6E12-M 6EA2-M 4SF2 8EB2-E 4SF2 8EB2-M 8EB2-E 4072 BEB2-M 4DY2 8EC2 4DY2 4EA2-E 6EB2-2 6EB2-M 4EA2-E 4EA2-M 6EB2-E 8EC2 4EA2-E 4EA2-M 6EB2-M 8EC2 HEA2-M 4EA2-E 8EB2-2 8EB2-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 8EB2-M 4EA2-M 6EB2-E 6EA2-E 8EC2 6E32-E 6EB2-Z 6EB2-M 6E32-E 6EA2-E 6EE2-M 8EC2 6EB2-E 6EB2-E 6E32-M 6EA2-M 8E32-E 6EBZ-M 8EC2 6EE2-M 6EB2-M 6EA2-M 6EB2-E 8EC2 8EB2-M 8E32-E 8EB2-E 6EA2-E 8E32-2 6EB2-M 8E32-M 6EA2-E 6EB2-E 6EX2-B 2G02 8EB2-M 6EA2-M 8E32-E 6EX2-3 2003 6232-M 8E32-M 8EB2-M 6EA2-M 8E32-E 8EB2-E 6EX2-A 2GS2 8EB2-2 8E32-M 6EX2-A 2GS2-M 8EB2-M 8EB2-M 6EX2-A 2GS3 2LS2 6EA2-E 6EX2-A 2GS3--C 2LS2 2LS28EB2-E 6EA2-M \_\_\_\_ 2GS3-M 2LS2 6EX2-A 8EB2-M 4GS2 FE 6EX2-A 2RV2-T 6E42-E ED 6652 17 ...IL 3EB2-E 2RV2-T 6EX2-A k 6EA2-M 2RV2-T 2RV2-T 8EB2-M 6EA2-E 4RV2-T 6EX2-B 2LA2 JUL 1 4RV2-T 8EB2-E 6EA2-M 4RV2-T 1986 86-84 Public Service Commission

C. Voice Grade-(Continued)

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Effective: JUL 1 1888

By R. D. BARRON, President-Missouri Divísion Southwestern Bell Telephone Company St. Louis, Missouri P.S.C. Mo.-No. 36

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

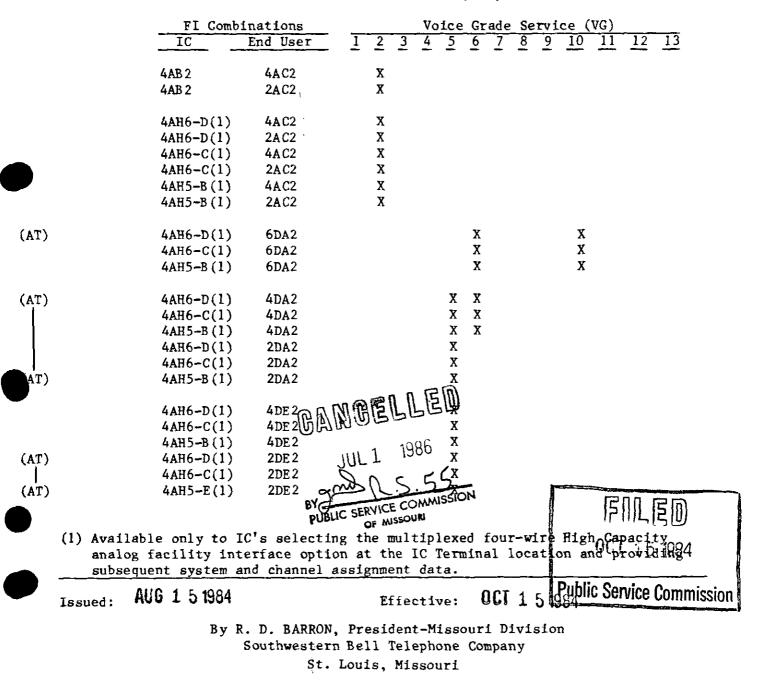
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### ACCESS SERVICES

- 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)

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

### 14. Available Facility Interface (FI) Combinations

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	e 7 8 9 10 1 E 1 2 13
4AB2	4AC2		Х				GANUSSE
4AB2	2AC2		Х				OCT 1 5 1984
4AH6-D(1)	4AC2		Х				int Dr Kh
4AH6-D(1)	2AC2		Х				AS JON
4AH6-C(1)	4AC2		Х				BY PUBLIC SERVICE COMMISSION
4AH6-C(1)	2AC2		X				PUBLIC SERVICE
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.

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

Section 7 2nd Revised Sheet 56

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Access Services Tariff

### (CP)ACCESS SERVICES

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

JUN 27 1986

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Public Service Commission

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

- . .

C. Voice Grade-(Continued)

Compatib	le CIs	Compatin	ole CIs	Compatib	<u>le CIs</u>
6EX2-B	2LB2	2L02	21.52	4102	2DA2
		2L02	21.53	4N02-5	2DA2
6EX2-B	2LC2	2L03	21.52	4NO2	4DA2
		4L02	2L.S2	4N02	4DA2-S
		4102	2LS2-M	4N02-S	4DA2
5EX2-B	2L03	4LOZ	2LS3	4N02-S	4DA2-5
		4102	21.53-M	4N02	6DA2
6ex2-b	2LR2	4L02	4L.52	4N02	6DA2-S
6EX2-8	4LR2			4N02-5	6DA2
		2L.R2	2LR2	4N02-5	6DA2-S
6ex2-a	2LS2	4LR2	2LR2		
6EX2-4	2LS2-M	4LR2	4LR2	4N02	2DE2
6EX2-A	2LS3			4N02-S	2DE2
6ex2-A	21.53-M	2LS2	2002	4802	4DE2
6ex2-a	4LS2	2LS2	4G02	4N02-S	4DE2
		2LS3	2G02		
2602	2GS2	2LS3	4602	2N02	2N02 .
2602	2GS3-C	4LS2	2G02	2N03	2N02
2603	ZGS2	4LS2	4G02	2N02 '	4N02-S
2603	2GS3			4N02	2N02
4602	2GS2	2LS2	2LA2	4N02	4N02
4G02	2682-M	<b>4LS2</b>	2L.\2	4N02	4N02-S
4602	2GS3			4NC2-S	4NC2-S
4G02	2683-C	2LS2	2LB2		
4602	2053-M	4LS2	2LB2	2N03	2932
4602	4GS2			4N02	4PR2
4G02	6GS2	2LS2	2LC2		
hean		4LS2	2LC2	4RV2-0	2RV2-T
4GS2	2G02			4872-0	4RV2-T
4GS2	2G03	4LS2	2L02	hand	
2022	21.00	41.52	2L03	4SF2	
2GS2	21.02			4SF2	2AC2-RE
2GS2 2GS3-C	4L02	2N02	2DA2	4SF2	4AC2 11
2633-C 2653-C	2L02 4L02	2N02	4da2 4da2-s	4SF2	4AC2-R 1 1986
2033-0 4052	4LU2 2L02	2N02 2N02	4DA2-5 6DA2	4SF2	4DY2 86-84
4GS2	4L02	2N02 2N02	6DA2-S	7052	4DY2 86-84
	THVE	#11AE	UNAC-Q	4SF2	Provide Service Commission

Issued: JUN 27 1986

JUL 1 1986 Effective:

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

Access Services Tar	tiff
Sectio	on 7
lst Revised Sheet	56
Replacing Original Sheet	: 56

### ACCESS SERVICES

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

						•		- /														
,	7.2	Teci	hnica	al Serv:	ice :	Descrip	tions	s fo	r S	peo	cia	1 A	cce	5 <i>5</i>	Ser	vic	e-[(	Cont	ninue DC	刚	ΞD	
	7.2	.1	Analo	og Serv:	ices	-(Conti	Inued)	)									นเ					i.
	B.	Vo:	ice (	Grade Se	ervi	ces-(Co	ontinu	ued)										AU	G 1	, , ,		;
		14	. A	vailable	e Fa	cility	Inter	rfac	е (	(FI)	) C	omb	ina	tio	ns-	(Ço	nti	nued	DilS5	our	ł	
				FI C	ombi	nations	š					Vo	ice	Gr	ade	Se	Puh	lị <u>c</u> S	ervice	Cor	nmiss	ion <sub>l</sub>
			-	IC		End Use	er		1	2	3	4	5	<u>6</u>	7	8	9	10	11	12	13	
(CT)				4AH6-D (	1)	4DX2											х					
				4AH6-C()	1)	4DX 2											X					
				4AH5-B (	•	4DX2											X					
				4AH6-D(	•	9DY2					X				X	x						
			4	4AH6-D(	1)	6DY2					Х				X	X						
				4AH6-D(	1)	4DY2					Х				X	X						
_				4AH6-C(	1)	9DY2					X				X	Х						
				4AH6-C(	-	6DY2					Х				Х	Х						
				4AH6-C(		4DY2					X				X	X						
				4AH5-B (		9DY2					X				X	X						

4AH5-B(1)6DY2 4AH5-B(1) 4DY2 4AH6-D(1)9EA2 4AH6-D(1)6EA2-E 4AH6-D(1)6EA2-M 4AH6-D(1)4EA2-E



Х

Х

X

Х

Х

X

X X

X Х

X

X Х X

Х

X X

X

X

(1) Available only to IC's selecting the multiplexed four-wingerHigh-Ca analog facility interface option at the IC Terminal location and subsequent system and channel assignment data. <del>-90</del> 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

### ACCESS SERVICES

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Original Sheet 56

Section 7

Access Services Tariff

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Technical Service Descriptions for Special Access Service, (Gontinued),

- 7.2.1 Analog Services-(Continued)
- B. Voice Grade Services-(Continued)
  - FI Combinations Voice Grade Service (VG) IC End User 2 3 4 5 5 <u>7</u> 8 <u>9</u> 10 11 12 13 4AH5-D(1) 4DX2 Х 4DX2 Χ 4AH6-C(1)4DX2 Х 4AH5 - B(1)4AH6-D(1) 9DY2 Х Х Х 6DY2 X Х Х 4AH6-D(1)BANBELLED Χ 4AH6-D(1)4DY2 Х Х Х 4AH6-C(1)9DY2 Х 4AH6-C(1)6DY2 Х OCT 1 5 1984 Х Х 4AH6-C(1)4DY2 Х 4AH5 - B(1)9DY2 Х Х Х X 4AH5-B(1)6DY2 Х PUBLIC SERVICE COMMISSION Х Х 4AH5 - B(1)4DY2 Х BĄ х 9EA2 X Х 4AH6-D(1)6EA2-E Х Х X 4AH6 - D(1)4AH6-D(1) 6EA2-M Х Х Х Х 4AH6-D(1) 4EA2-E Х X X
  - 14. Available Facility Interface (FI) Combinations-(Continued)

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

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

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

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MISSUUKI Public Service Commission

### (CP)ACCESS SERVICES

7. SPECIAL ACCESS S	ERVICE-(Continued)
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7.3 Channel Interface and Network Channel Codes-(Continued) JUN 27 1986

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

Compatil	ole CIs
	-
4S72	· 2682
4SF2	2GSZ-M
4SF2	2CS3
4SF2	2GS3-C
4SF2	2GS3-M
4SF2	4GS2
4SF2	6GS2
4SF2	2LA2
4SF2	2L32
4SF2	2LC2
4SF2	2L03
4SF2	2LR2
4SF2	4LR2
4SF2	2LS2
4SF2	2LS2-M
<sup>4</sup> SF2	2LS3
4SF2	2LS3-M
4SF2	4LS2
4SF2	2RV2-T
4SF2	4RV2-T
2TF3	2TF2
4TF2	2TF2
4TF2	4TF2



Issued: JUN 27 1986

Effective: JUL 1 1986

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

P.S.C. Mo.-No. 36 Access Services Tariff No supplement to this Section 7 tariff will be issued 1st Revised Sheet 57 except for the purpose of canceling this tariff. Replacing Original Sheet 57 ACCESS SERVICES SPECIAL ACCESS SERVICE-(Continued) ĥ 7. Technical Service Descriptions for Special Access Service-(Continued) ED 1 7.2 7.2.1 Analog Services-(Continued) AUG 1 -1 100 i Voice Grade Services-(Continued) В. Available Facility Interface (FI) Combinations-(Continued MISSUURI 14. ervice Commission FI Combinations Voice Grade Service= End User 6 8 9 10 12 13 IC 1 2 4 11 3 5 <u>7</u> 4EA2-M Х X 4AH6 - D(1)Х 9EA2 X X 4AH6-C(1)Х X 6EA2-E Х Х 4AH6-C(1)4AH6-C(1)6EA2-M X Х Х Х 4EA2-E X X X 4AH6-C(1)4EA2-M Х Х X 4AH6-C(1)Х X X 4AH5-B(1)9EA2 6EA2-E Х Х X 4AH5-B(1) 4AH5-B(1)6EA2-M X Х Х Х 4EA2-E X Х Х 4AH5-B(1) 4EA2-M X Х X 4AH5 - B(1)4AH6-D(1)8EB 2-E X Х Х 4AH6-D(1)8EB 2-M X Х X Х 6EB 2-E Х Х X 4AH6-D(1)6EB 2-M X Х X 4AH6-D(1)X Х 4AH6 - C(1)8EB 2-E X 8EB 2-M X X Х Х 4AH6-C(1)X X Х 4AH6-C(1)6EB 2-E 6EB 2-M X X Х 4AH6 - C(1)X Х X 8EB 2-E 4AH5 - B(1)Х X X Х 4AH5-B(1) 8EB 2-M X X 4AH5 - B(1)6EB 2-E X , CANBEL 4AH5 - B(1)6EB 2--M 2GO 2 4AH6-D(1)1986 2GO 2 Х 4AH6-C(1)JUL 1 X 2GO 2 4AH5-B(1)Assion (AT) 4AH6-D(1)6GS2(2) PUBLIX SERVICE COM 4GS2 4AH6-D(1)OF MISSOURI X X 4AH6-D(1)2GS3 X 2GS 2 X X 4AH6 - D(1)(1) Available only to IC's selecting the multiplexed four-wire High Capacity analog facility interface option at the IC Terminal location and 21 subsequent system and channel assignment data. (2) This facility interface combination is applicable with Centrex C.O. Service only. OCT 15 1984 AUG 1 5 1984 Issued: Effective: UCT 1 5 1984 Public Service Commission By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

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

Access Services Tariff

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Section 7 Original Sheet 57

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)

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

IC	inations End User	1	2	3	4	5	6	7	8	9	<u>.ce' (</u> 10	11	12	13
~		<u>^</u>	=	ž	-	ž	≚	<u>-</u>	÷	4	10	<u></u>	<u></u>	
4AH6-D(1)	4EA2-M			Х				Х	Х					
4AH6-C(1)	9EA2			Х				Х	X					
4AH6-C(1)	6EA2-E			Х				Х	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					
4AH5-B(1)	9EA2			X				Х	Х					
4AH5-B(1)	6EA2-E			Х				Х	Х					
4AH5-B(1)	6EA2-M		-	X				Х	Х	Х				
4AH5-B(1)	4EA2-E			Х				Х	Х					
4AH5-B(1)	4EA2-M			X		·		X	X					
4AH6-D(1)	8EB2-E			х				х	X					
4AH6-D(1)	8EB2-M			X				X	X	Х				
4AH6-D(1)	6EB2-E			Х				Х	Х					
4AH6-D(1)	6EB2-M			Х				Х	Х					
4AH6-C(1)	8EB2-E			X				X	X					
4AH6-C(1)	8EB2-M			X				X	Х	Х				
4AH6-C(1)	6EB2-E			X				X	Х					
4AH6-C(1)	6EB2-M			X				X	X					
4AH5-B(1)	8EB2-E			Х				Х	Х					
4AH5-B(1)	SEB2-M			X			ត ក	2197	X	Х				
4AH5-B(1)	6EB2-E	~	n	<b>NX</b>	26	i۱L	ΓL	580	X					
4AH5-B(1)	6EB2-M		別	lVA i	y e	50		х	X					
4AH6-D(1)	2G02	x		იՐ	Τı	. 5 '	198 <sup>1</sup>	+	1					
4AH6-C(1)	2G02	Х		1	r .	<i>II X</i>		$\mathbf{n}$	/	Ť		[	, je	
4AH5-B(1)	2602	X		18	2	K	2	MISS	ION	Í				· · ·,
4AH6-D(1)	4GS2		₽UF	JS SIL	SERV	NCE 6	OURI	X		1 1.		JAN		íS9
4AH6-D(1)	2GS3			X				Х		l.		83	9	2 5
4AH6-D(1)	2GS2	Х		X.				Х		F.	<b>5</b> -1-11		<b>,</b>	

(1) Avail analog facility interface option at the IC Terminal location and providing subsequent system and channel assignment data.

Issued: DEC 2 9 1983

JAN 0 1 1984 Effective:

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

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, 4GS2-G, 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-27

FILED)

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:

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1988

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

### ACCESS SERVICES

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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 ST 58 Public Service Commission MISSOURI

FILED

OCT 16 1987 TO-87-42-Public Service Commission

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Effective: OCT 16 1987

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

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) NISSUUKI 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)

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CANCELLED OCT 16 1937 BY 380 B S#E Public Service Commission MISSOURI

				FILED
				JUL 1 1986 86-84 Public Service Commission
Issued:	JUN 27 1986	Effective:	JUL	1 1986
		A. D. BARRON, President-Miss Southwestern Bell Telephone St. Louis, Missouri		
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Access Services Tariff Section 7 lst Revised Sheet 58 Replacing Original Sheet 58

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### 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)[4]CSO[[2]]

	14.	Available	Facility Inte	erface	(FI)	C					11			
		FI Comb	inations				Voi	ce	Gr	ade Se	₽₽1¢	e <mark>ic(ឱ</mark> Gi	<u>vice</u> C	ommissio
		IC	End User	1	2	3	4	5	<u>6</u>	<u>7</u> <u>8</u>	<u>69</u>	<u>+0</u>	<u>l 12</u>	- <u>13</u>
T)		4AH6-C(1)	6GS2(2)			X				x				
•		4AH6-C(1)	4GS2			X				X				
		4AH6-C(1)	2GS3			X				X				
		4AH6-C(1)	2GS 2	X		X				Х				
T)		4AH5-B(1)	6GS2(2)			X				X				
-,		4AH5-B(1)	4GS2			X				Х				
		4AH5-B(1)	2GS 3			X				х				
		4AH5-B(1)	2GS 2	X		X				Х				
		4AH6-D(1)	<b>2LA</b> 2		x					x				
		4AH6-C(1)	21A2		Х					х				
		4AH5-B(1)	2LA2		X					X				
		4AH6-D(1)	2LB 2		х					x				
		4AH6-C(1)	2LB2		X					X				
		4AH5-B(1)	2LB 2		X					X				
		4AH6-D(1)	2LC2		X					x				
		4AH6-C(1)	2LC2		X					X				
		4AH5-B(1)	2LC2		X					X				
		4AH6-D(1)	2L03		x				X					
		4AH6-D(1)	2L02	X										
		4AH6-C(1)	2L03		X				X					
		4AH6-C(1)	<b>2L</b> O2	X	,	~~~	86	<b>7</b> 55 9	271 P					
		4AH5-B(1)	2L03		X [	的私	NN.		X		1M			
		4AH 5-B(1)	<b>2</b> LO2	X	C	96	ເປັນ	(W)	<b></b> (	566	9			
		4AH6-D(1)	4LR2		x		ງກາ	_ 1		1986				
		4AH6-D(1)	2LR 2		Х		An	~		~~~				
		4AH6-C(1)	4LR 2		Х <sub>ВУ</sub>	91	- unit	<b>-</b> /)	_S	.58				
		4AH6-C(1)	2LR 2		Xpl	JBLI	C SER	VIC	E CO	OMMISS	ION			
		4AH5-B(1)	4LR2		Х				SSOI					
		4AH5-B(1)	<b>2LR</b> 2		X									
	analog subsec	g facility in quent system	IC's selection nterface option and channel	on at t assignm	the nent	IC da	Tern ta.	nin	al	locat	ion e	nd pr 00	ovidi T 15	1934
(2)	This i	acility int	erface combin	ation 1	s a	ppl	icat	o i e	WI	in ce	ntrex		Serv	ice only
Issu	ied:	AUG 1 5 1984		E	Effe	cti	lve:	Ū	CT	151	98 <b> </b> PI	ublic S	ervice	Commiss
		By 1	R. D. BARRON,								n			
			Southwester	n Bell		-		Со	mpa	iny				

St. Louis, Missouri

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

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### ACCESS SERVICES

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

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Original Sheet 58

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Section 7

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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)

	inations				Vo	<u>ice</u>	Gr	ade	Se	r <u>vi</u>	ce (	VG)			
IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13	
4AH6-C(1) 4AH6-C(1) 4AH6-C(1) 4AH5-B(1) 4AH5-B(1) 4AH5-B(1)	4GS2 2GS3 2GS2 4GS2 2GS3 2GS2	x x		X X X X X X X				X X X X X X X							
4AH6-D(1) 4AH6-C(1) 4AH5-B(1)	2LA2 2LA2 2LA2		X X X					X X X				A	n (	ទ៣	
4AH6-D(1) 4AH6-C(1) 4AH5-B(1)	2LB2 2LB2 2LB2 2LB2		X X X					X X X		BA	OC.	月1日 「15	1984		
4AH6-D(1) 4AH6-C(1) 4AH5-B(1)	2LC2 2LC2 2LC2		X X X					X X X		8Y/	071	25	5	MISSION	
4AH6-D(1) 4AH6-D(1) 4AH6-C(1) 4AH6-C(1) 4AH5-B(1) 4AH5-B(1)	2LO3 2LO2 2LO3 2LO2 2LO3 2LO2	x x x	x x x				x x x								
4AH6-D(1) 4AH6-D(1) 4AH6-C(1) 4AH6-C(1) 4AH5-B(1) 4AH5-B(1)	4LR2 2LR2 4LR2 2LR2 4LR2 4LR2 2LR2		X X X X X X								-] ۲.ل		1 190 - <b>2</b> 1		
,	IC's selecting	the		tip	lex	red	for	ır-w	ire	Puh Hi	17 . C.				

Issued: DEC 2 9 1983

Effective: JAN 0 1 1994

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

Access Services 1a	ETTT
Secti	on 7
lst Revised Shee	et 59
Replacing Original Shee	et 59

### 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)

MISSOURI Public Service Commission

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

ı		FI Comt	inations				Vo	ice	Gr	ade	Se	rvi	ce (	(VG)			
		IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13	
¥						_				_	-		_	-			
•		4AH6-D(1)	4LS 2		Х	Х				X							
		4AH6-D(1)	2LS 2	X	X	X				X	X						
		4AH6-D(1)	2LS 3		X	X				X							
		4AH6-C(1)	<b>4LS2</b>		Х	X				Х							
		4AH6-C(1)	2LS 2	X	X	X				X	X						
		4AH6-C(1)	2LS 3		X	Х				X							
RT)																	
		4AH5-B(1)	4LS2		X	X				X							
		4AH5-B(1)	2LS 2	X	Х	Х				Х	X						
		4AH5-B(1)	2LS 3		X	X				X							
		4AH6-D(1)	4N02	X	X			Х	X	Х		X					
		4AH6-D(1)	<b>2N</b> 02	X	X			X		X							
		4AH6-C(1)	4NO2	X	X			Х	X	Х		Х					
		4AH6-C(1)	2NO2	X	X			X		Х							
		4AH5-B(1)	4N02	X	X			Х	X	Х		X					
		4AH5-B(1)	2NO2	X	X			X		X							
		4AH6-D(1)	4RV2-T			х				х							
(RT)		4AH6-D(1)	2RV2-T			X											
		4AH6-C(1)	4RV2-T			X				X							
RT)		4AH6-C(1)	2RV2-T			X											
		4AH5-B(1)	4RV2-T			X				<u> </u>	n n	r2	តា				
(RT)		4AH5-B(1)	2RV2-T			X	Gl	A	1 U	E	L		U				
							0.										
								٦ſ	ųΓ	1	198	36					
								3M	R.	0 c	2 6	5					
							BY⊂	<u>1 (</u>		7	2	$\mathcal{D}_{\mathcal{T}}$					
			IC's select	•		-	PUB	LIC S	SERV	n <b>CE</b>	CON	MIS	SION	151	ת חר	20	- )
	(1) Availa	ble only to	IC's select	ing ti	ne i	muli 	t1p.	lexe	edor:	10437		Lije	Hig	njca	Pac 1	堅切	
			nterface opt						n1na	ai.	loca	a tipi (	on a:				1
-	subseq	uent system	and channel	assi	gme	ητ (	αατι	а,						0CT	15	1934	
	<u></u>																1
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		Þ	Southweste									الل ان م	<b>U</b>				
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Access Services Tariff Section 7 Original Sheet 59

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### 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				Vo	ice	Gr	ade	Se	rvi	.ce_(	VG)			
IC	End User	1	2	3	4	5	6	7	8	<u>9</u>	10	11	12	13
4AH6-D(1) 4AH6-D(1) 4AH6-D(1) 4AH6-C(1) 4AH6-C(1) 4AH6-C(1)	4LS2 2LS2 2LS3 4LS2 2LS2 2LS2 2LS3	x x	X X X X X X X	X X X X X X X	-		-	X X X X X X X X	x x	_		-		LED
4AH5-B(1) 4AH5-B(1) 4AH5-B(1) 4AH5-B(1)	6LS2 4LS2 2LS2 2LS3	x	X X X X	X X X X				X X X X	x		13	DCT EK	151 V	59
4AH6-D(1) 4AH6-D(1) 4AH6-C(1) 4AH6-C(1) 4AH5-B(1) 4AH5-B(1)	4N02 2NC2 4N02 2N02 4N02 2N02	X X X X X X	X X X X X X			X X X X X X	x x x	X X X X X X		x <sup>r</sup> x x	PUBLIC	SER	ICE C	OMMISSION
4AH6-D(1) 4AH6-D(1) 4AH6-C(1) 4AH6-C(1) 4AH5-B(1) 4AH5-B(1)	4RV2-T 2RV2-T 4RV2-T 2RV2-T 4RV2-T 2RV2-T	·		X X X X X				X X X X X X		-		UN 8 9	<u>)</u> –	1 19 <sup>-1</sup> 2 <b>5 3</b>

(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 assignent data.

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			AC	CESS SERVI	CES			MEU		ቻ 🕴
	7. SPECIAL	L ACCESS SE	RVICE-(Contin	uued)			<u> </u>	AUG	14222	
•	7.2 Techr	nical Servi	ce Descriptio	ons for Spe	ecial Ac	cess S	ervice-	-(Contin	issuur!	ŀ
	7.2.1 Ar	nalog Servi	ces-(Continue	d)			P		vice Commis	ssion
	B. Voic	ce Grade Se	rvices-(Conti	nued)						
	14.	Available	Facility Int	erface (F)	[) Combi	nation	s-(Cont	tinued)		
•		FI Com	binations		Voice	Grade	Servia	e (VG)		
		IC	End User	1 2 3	3 4 5	6 7	89	10 11	12 13	
(RT)   (RT)										
(AT)		4DB2	2DA2		X					
þ		4DB 2	4DA2		X	X		Х		
(AT)		2DB2(2)	2DA2		X	Х				
			1							
		4DB 2	6DA2			Х		Х		
(AT)		2DB 2	2NO2		X					
		4DB 2	4N02			X				
(AT)		4DB 2	2NO2		X					
		4DD3	4DE 2		X					
(CT)		4DD3	2DE 2		X					
()										
		4DS9(1)	4AC2	X						
		4DS9(1)	2AC2	X						
		400/(1/	21102	21						
_		4DS9(1)	6DA2			x		x		
AT)		4DS9(1)	4DA2		X	x		41		
(AT)		4DS9(1)	2DA2		X	<b>41</b>				
(111)		4007(1)	LUIIL			_				
		4DS9(1)	4DE 2	GAN	BR Iv	I G M				
(AT)		4DS9(1)	2DE 2	「防風」とう	06 LEU	550				
\ <i>}</i>		4007(1)	LDUL	0	<i>n</i>					
		4DS9(1)	4DX 2	JUL	1 198	36	x			
				~~~	20 -	c\$			and the set of the set	<i>'</i>
(AT)	<ol> <li>See Par</li> <li>For VG- point of</li> </ol>	ragraph 7.3 -6, availat circuits.	3.3, following ble only when	BY FUELIES	IT (************************************	mission d to e	Nexisting	F one-wa	NLED 17.53、1954	
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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

Access Services Tariff

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Original Sheet 60

DEC 2 9 1003

Public Service Commission

Public Service Compression

Section 7

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- 7.2.1 Analog Services-(Continued)
- B. Voice Grade Services-(Continued)
  - FI Combinations Voice Grade Service (VG) End User IC <u>56</u> <u>7</u> 8 9 10 11 <u>12</u> <u>13</u> 6DA2 6DA2 Х 6DA2 4DA2 Х 4DA2 6DA2 Х 4DA2 4DA2 Х -4DB2 6DA2 Х х 4DB2 Х 4N02 4DD3 4DE2 Х 2DE2 2DD3 X 4DS9(1)4AC2 Х 2AC2 Х 4DS9(1)4DS9(1) 6DA2 Х X 4DS9(1)4DE2 Х GANGELLED 4DS9(1)4DX2 Х TL 5 1984 行此民创 PUBLIC SERVICE CONMISE JA!I ~ 1 1984) 64 83-253
  - 14. Available Facility Interface (FI) Combinations-(Continued)

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

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except for the purpose	lst Revised Sheet 61
of canceling this tariff.	Replacing Original Sheet 61
ACCESS SERVICES	EGEIVED
7. SPECIAL ACCESS SERVICE-(Continued)	AUG 1 1 1204
7.2 Technical Service Descriptions for Special	Access Service-(Continued)
7.2.1 Analog Services-(Continued)	Public Service Commission
B. Voice Grade Services-(Continued)	• **** ·- ******************************

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Access Services Tariff

		FI Co	mbinations			Va	oice	Gra	ade	Se	rvi	ce (	(VG)			
		IC	End User	1	2 3	3 4	5	6	7	8	9	10	11	12	13	
		4DS9(1)	9DY2		5	X			x	X						
		4DS9(1)	6DY2			K			X	X						
		4DS9(1)	4DY2			ĸ			X	X						
		4DS9(1)	9EA2		3	ĸ			X	X						
		4DS9(1)	6EA2-E			X			X	Х						
		4DS9(1)	6EA2-M		2	K			Х	X	X					
_		4DS9(1)	4EA2-E		2	X			X	X						
		4DS9(1)	4EA2-M		3	x			X	X						
		4DS9(1)	8EB 2-E		3	R			x	x						
		4DS9(1)	8EB 2-M		2	X			Х	Х	Х					
		4DS9(1)	6EB 2-E			X			Х	X						
		4DS9(1)	6EB 2-M		3	ĸ			X	X						
		4DS9(1)	2G0 2	X												
(AT)		4DS9(1)	6GS2(2)		2	R			X							
		4DS9(1)	4GS2			X			X							
		4DS9(1)	2GS2	X		X			X							
		4DS9(1)	2GS3		2	X			X							
(CT)		4DS9(1)	2LB 2		x				X							
(CT)		4DS9(1)	<b>2LA</b> 2		ÖA	NA				D						
(CT)		4DS9(1)	2LC2		X	un ce		<u>-</u> (23	X	g						
					、	JŲL	1	1981	0							
				_		and	R		۲ ۵	/				on n	E D D	
(AT)	(1) See Par (2) This fa	agraph 7. cility in	3.3, followin iterface combi	g, for nation	sy <u>darfa.</u> Public	lana: Stär	tìòn Icab	<b>بر مر</b> آ⁄ه' ۱	<u>0</u> 893.+		`ent	rov		>       L	,比世	İ
(11)	Service		ICTIACE COMUL	nacion	1 -19 -	appi.	NI-ACH	ле і УК	wurd	r1 · ~		LCX			F 400	6
				P									0	1 I I	5 1984	+ 
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14. Available Facility Interface (FI) Combinations-(Continued)

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ţ	No supplement to this tariff will be issued except for the purpose of canceling this tariff.	Access Services Tariff Section 7 DE Original Sheet 61
	ACCESS SERVICES	DEC 29 1883
	7. SPECIAL ACCESS SERVICE-(Continued)	AFIC COLLAR
	7.2 Technical Service Descriptions for Special	Access Pservice, (Continued)
	7.2.1 Analog Services-(Continued)	

- B. Voice Grade Services-(Continued)
  - 14. Available Facility Interface (FI) Combinations-(Continued)

FI Com	binations				٧o	ice	Gr	ade	Se	rvi	ce (	VG)		
IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13
				-										
4DS9(1)	9DY2			X				х	X					
4DS9(1)	6DY2			Х				Х	Х					
4DS9(1)	4DY2			Х				Х	Х					
4DS9(1)	9EA2			X				x	x					
4DS9(1)	6EA2-E			x				x	x					
4DS9(1)	6EA2-M			x				X	x	Х				
4DS9(1)	4EA2-E			X				X	x	**				•
4DS9(1)	4EA2-M			X				X	X					
-039(1)	<b>4137</b> - 11		•	Δ				Δ.	Д					
4DS9(1)	8EB2-E			X				X	X					
4DS9(1)	8EB2-M			X				Х	Х	Х				
4DS9(1)	6EB2-E			X				Х	Х				•	
4DS9(1)	6EB2-M			X				X	Х					
4DS9(1)	2602	x												-9
	(							**		_		ากอด	211 6	LED
4DS9(1)	4GS2			X				X		(h	1/14	101	56	500
4DS9(1)	2GS2	X		X				X		U	10030		•	
4DS9(1)	2GS3			X		•		X			ſ	i TJ	5 1:	184
4DS9(1)	2LB2	x						X			100	K. 14	IC –	6
4DS9(1)	2LA2	X						X		B		SERV	ICE CO	OMMISSION
4DS9(1)	2LC2	x						х		÷۲-	0.0	QF T	W7900	· ·
4039(1)	2162	Δ						А		5			, j L, İ	电
										Ĺ		JAN	- 1	(\$2.)
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(1) See Paragraph 7.3.3, following, for explanation.

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

	No supplement to this tariff will be issued except for the purpose of canceling this tariff.	Access Services Tariff Section 7 Original Sheet 62
	ACCESS SERVICES	DEC 2 S MOR
)	7. 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.

FI Com	Voice Grade Service (VG)													
IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13
			-	~	-	-		-	-	-				
4DS9(1)	2L02	х												
4DS9(1)	2L03		X					Х	•					
4DS9(1)	4LR2		X											
4DS9(1)	2LR2		X											
4DS9(1)	4LS2		x	x				x						
4DS9(1)	2LS2	X	Х	Х				X X	Х			•		
4DS9(1)	2LS3	•	x	X				Х		•				
4DS9(1)	4N02	x	X			х	X	X		х				
4DS9(1)	2NO2	X	X			X		х						
4DS9(1)	4RV2-T			x				x						
4DS9(1)	2RV2-T			x				X					•	
4DX2	4DX2									X				

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

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