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

Access Services Tariff Section 7 6th Revised Sheet 1 Replacing 5th Revised Sheet 1

# ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE

(AT) The following list matches the Telephone Company's Basic Service Element (BSE) names to the industry standard names for each BSE.

	Telephone Company Names	Generic Name of ONA Service
	Automatic Loop Transfer	Automatic Protection Switching
	Bridging	Bridging
	<ul><li>Central Office Bridging Capability</li><li>Telegraph Bridging</li></ul>	
	Clear Channel Capability on 1.544 Mbps	Access To Clear Channel Transmission
	Conditioning	Conditioning
	Extended Superframe Format	Extended Superframe Conditioning
	Multiplexing	Multiplexing - Digital
	- Central Office Multiplexing	
   (AT)	Secondary Channel Capability	Secondary Channel Capability

(MT)

Issued: March 26, 1993

Effective: April 11, 1993



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

Access Services Tariff Section 7 5th Revised Sheet 1 Replacing 4th Revised Sheet 1

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ACCESS SERVICES

#### 7. SPECIAL ACCESS SERVICE

7.1 General

Special Access Service with the exception of the WATS Access Line and Network Reconfiguration Service provides a transmission path to connect customer (IC) designated premises(1), either directly or through a Telephone Company Hub where bridging, multiplexing or Network Reconfiguration Service functions are performed. The WATS Access Line, offered under Voice Grade Service, provides a transmission path connecting a customer-designated premises with the WATS serving office. Network Reconfiguration Service, found in Section 19, following, works in conjunction with Special Access Service allowing customers the ability to reconfigure their circuits. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

7.1.1 Channel Types

ΤT)

There are eight types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

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

Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements.

CANCELLED

APR 11 1993 BY 6th R.S. # Public Service Commission MISSOURI

-DEC - 4 1992

(1) Telephone Company Centrex CO-like switches and Telephone Company Answering : Service concentrators are considered to be customer premises for purposes of administering regulations and rates contained in this Tariff. DEC 4 1992

Issued: **DET** - 5 1992

Effective: 5 1902 By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company St. Louis, Missouri

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

Access Services Tariff Section 7 Ath Revised Sheet 1 Replacing 3rd Revised Sheet 1

ACCESS SERVICES

MAY 29 1991

7. SPECIAL ACCESS SERVICE

7.1 General

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MISSCURI Public Service Commission

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

Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements.

# CANCELLED

DEC 4 1992 BY  $\leq \pi R. S. \#$ Public Service Commission

Telephone Company Centrex CO-like switches and Telephone Company Answering (1) Service concentrators are considered to be customer premises for purposes of administering regulations and rates contained in this Tariff.

Issued: JUN 0 4 1991 Effective: AUG 0 5 1991

- 1991

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

, ublic Service Commission

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		General			Public	MISCOURI Service Commission
(TA)     (AT)		a transmission pat directly or throug functions are perf Service, provides ises with the WATS	rvice with the excep th to connect custom gh a Telephone Compa formed. The WATS Ac a transmission path 5 serving office. So but utilizing Telepho	er (IC) designa ny Hub where br cess Line, offe connecting a c pecial Access S	5 ACCES ted pred idging red und ustomer ervice	s Line provides mises(1), either or multiplexing er Voice Grade designated prem- includes all
		digital. Analog d	rovided by Special A connections are diff ns are differentiate	erentiated by s		
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			D. BARRON, Presider Southwestern Bell To	elephone Company		

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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

7.1 General

Special Access Service provides a transmission path **Company Special** Access Service Commission (IC) designated premises(1), either directly or through a Telephone Company. Hub where bridging or multiplexing functions are performed. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

7.1.1 Channel Types

There are nine types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

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

Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements.

CANCELLED OCT 16 1987 BY 380 B SEL Public Service Commission MISSOURI

FILED

Access Services Tariff

JUN 27 1986

WIZZUNKI

Replacing Ist Revised

2nd Revised Sheet 1

Section 7

Sheet\*

-ŀ-,

(1) Telephone Company Centrex CO-like switches and Telephone Company Answering Service concentrators are considered to be customer premises for Sugposes of administering regulations and rates contained in this Tariff Service Commission

Issued:

JUN 27 1986

Effective: JUL 1 1985

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

Access Services Tariff. lst Revised Sheet L Replacing Original Sheet I AUG 1 (22)

#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE

7.1 General

MISSOURI Public Service Commission

Special Access Service provides a transmission path to directly connect an IC terminal location and an End User's premises(1), two IC terminal locations, an IC terminal location and a Hub, two End User's premises or an End User's premises and a WATS or WATS-type serving office(2). Special Access Service includes all exchange access not utilizing Telephone Company end office switches. This type of Access Service is used, for example, by IC's for the provision of Private Line Service.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate. The specific types of services (e.g., Narrowband, Voice Grade, Wideband Digital) provided under Special Access Service are described in Paragraph 7.2, following.

7.1.1 Rate Categories

There are four basic rate categories which apply to Special Access Service:

- Access Connection
- Special Transport
- Features and Functions
- Special Access Line

Unless specifically stated otherwise, each of the rate categories will apply for each Special Access Service provided to an IC.

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	(1)				x CO-like a	VICE COMMISSION MENSSOURI Witches are c	conside	ered to be End Users'
(CT)	(2)	The User	Special Ac	ourposes of cess Servio s and a WA C or D Swi	ce used to TS or WATS-	provide the d type serving	onnector	ion between an Brd is only for use with OCT 15 1984
	Iss	ued:	AUG 1 5	1984		Effective:	OCT	<b>អភិវាទីទ</b> ervice Commission
					western Bel	ident-Missour 1 Telephone ( .s, Missouri		

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE

7.1 General

EUSSOURI Public Service Commission

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Access Services Tariff

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Section 7

Special Access Service provides a transmission path to directly connect an IC terminal location and an End User's premises(1), two IC terminal locations, an IC terminal location and a Hub, two End User's premises or an End User's premises and a WATS or WATS-type serving office(2). Special Access Service includes all exchange access not utilizing Telephone Company end office switches. This type of Access Service is used, for example, by IC's for the provision of Private Line Service.

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- Access Connection
- Special Transport
- Features and Functions
- Special Access Line

Unless specifically stated otherwise, each of the rate categories will apply for each Special Access Service provided to an IC.

GANGELLED 上市(上区(0). OCT 1 5 1984 PUBLIC SERVICE COMMISSION OF MISSOURI

- (1) Telephone Company Centrex CO-like switches are considered to be End Users' premises for purposes of this Tariff.
- (2) The Special Access Service used to provide the connection between an End User's premises and a WATS serving office is only for use with Feature Group C or D Switched Access Service.

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

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

# ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE

## 7.1 General

Special Access Service with the exception of the WATS Access Line and Network
Reconfiguration Service, provides a transmission path to connect customer (IC) designated
premises (1), either directly or through a Telephone Company Hub where bridging, multiplexing,
Network Reconfiguration Service or Frame Relay Service functions are performed. The WATS
Access Line, offered under Voice Grade Service, provides a transmission path connecting a
customer designated premises with the WATS serving office. Network Reconfiguration Service
found in Section 19, following, work in conjunction with Special Access Service allowing
customers the ability to reconfigure their circuits. Frame Relay Service is found in Section 16.
Special Access Service includes all exchange access not utilizing Telephone Company end-office switches.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

# 7.1.1 Channel Types

There are nine types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

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

Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements.

(1) Telephone Company Centrex CO-like switches and Telephone Company Answering Service concentrators are considered to be customer premises for purposes of administering regulations and rates contained in this Tariff.

Issued: January 3, 2003

Effective: February 2, 2003

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

(RT)

(RT)

Filed MO PSC

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

Access Services Tariff Section 7 3rd Revised Sheet 1.01 Replacing 2nd Rep Sheet 1.01

ACCESS SERVICES

#### SPECIAL ACCESS SERVICE

# AUG 26 1994

7.1 General

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# MO. PUBLIC SERVICE COMM.

Special Access Service with the exception of the WATS Access Line and Network Reconfiguration Service, provides a transmission path to connect customer (IC) designated premises(1), either directly or through a Telephone Company Hub where bridging, multiplexing, Network Reconfiguration Service, Transport Resource Management Service or Frame Relay Service functions are performed. The WATS Access Line, offered under Voice Grade Service, provides a transmission path connecting a customer designated premises with the WATS serving office. Network Reconfiguration Service and Transport Resource Management Service, found in Section 19, following, work in conjunction with Special Access Service allowing customers the ability to reconfigure their circuits. Frame Relay Service is found in Section 16. Special Access Service includes all exchange access not utilizing Telephone Company end-office switches.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

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There are nine types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

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

Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements CANCELLED



Telephone Company Centrex CO-like switches and Telephone Company (1)Service concentrators are considered to be customer premises for purposes of administering regulations and rates contained in this Tariff. SEP 2 6 1994

AUG 2 6 1994

Issued:

Effective: 2 R 1994 MISSOURI SEP By M. H. SCHULTEIS, Executive Director-External Affairs

Southwestern Bell Telephone St. Louis, Missouri

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

Access Services Tariff Section 7 2nd Revised Sheet 1.01 Replacing 1st Revised Sheet 1.01

#### ACCESS SERVICES

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MAY 2 4 1994

7. SPECIAL ACCESS SERVICE

7.1 General

MISSOURI

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The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

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

Customers can order a basic channel and select from 2 list transmission parameters and channel interfere RE OGRAFIS Table transmission parameters and channel interfaces, these effe to meet specific communications requirements.

JUL 1 5 1994

MISSOURI Public Service Commission

(1) Telephone Company Centrex CO-like switches and Telephone Company Answering Service concentrators are considered to be customer premises for purposes of administering regulations and rates contained in this Tariff.

MAX_0_4_000		JUL 1 5 1994
Issued: MAY 2 4 1994	Effective:	JON 9 1-400 Lawrence
	n Manager-Regula n Bell Telephon Louis, Missour	e Company

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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 1st Revised Sheet 1.01 Replacing Original Sheet 1.01

ACCESS SERVICES

FEB 9 1993

SPECIAL ACCESS SERVICE

7.1 General

MISSOURI Pretic Scivics Commission

Special Access Service with the exception of the WATS Access Line and Network Reconfiguration Service, provides a transmission path to connect customer (IC) designated premises(1), either directly or through a Telephone Company Hub where bridging, multiplexing or Network Reconfiguration Service functions are performed. The WATS Access Line, offered under Voice Grade Service, provides a transmission path connecting a customer designated premises with the WATS serving office. Network Reconfiguration Service, found in Section 19, following, works in conjunction with Special Access Service allowing customers the ability to reconfigure their circuits. Special Access Service includes all exchange access not utilizing Telephone Company end-office switches.

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

Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements. CANCELLED

JUL 151994

BY 2 nd R. S # 1.01 Public Service Commission MISSOURI

(1) Telephone Company Centrex CO-like switches and Telephone Company Answering Service concentrators are considered to be customer premises for purposes of administering regulations and rates contained in this Tariff.

	APR 1 9 1993	FI	IFD	
Issued: FEB 0 9 1993	Effective: TAN 1 1 1555		1007	_
By A. D. ROBERTSON,	Assistant Vice President-External estern Bell Telephone Company	AffaiAPR	19 1990	I
Southw		MO. PUBLIC	SERVICE	COMM.

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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 1.01

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#### ACCESS SERVICES

MAR 291993

#### 7. SPECIAL ACCESS SERVICE

(MT) 7.1 General

MISSOURI Public Servico Commission

Special Access Service with the exception of the WATS Access Line and Network Reconfiguration Service, provides a transmission path to connect customer (IC) designated premises(1), either directly or through a Telephone Company Hub where bridging, multiplexing or Network Reconfiguration Service functions are performed. The WATS Access Line, offered under Voice Grade Service, provides a transmission path connecting a customer designated premises with the WATS serving office. Network Reconfiguration Service, found in Section 19, following, works in conjunction with Special Access Service allowing customers the ability to reconfigure their circuits. Special Access Service includes all exchange access not utilizing Telephone Company end-office switches.

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- Speed (i.e., bit rate),
- Spectrum.

Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements.

CANCELLED APR 19 1993 BY <u>Lot</u> R.S. # 1. 01 Public Service Commission MISSOURI

1 1 1993

(1) Telephone Company Centrex CO-like switches and Telephone Company Answering Service concentrators are considered to be customer premises for purposes of administering regulations and rates contained in this Tariff.

Issued: MAR 2 6 1993

(MT)

Effective:

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri BARRON, President-Missouri Division Southwestern Bell Telephone Company MO. PUBLIC SERVICE COMM. No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff Section 7 4th Revised Sheet 2 Replacing 3rd Revised Sheet 2

#### ACCESS SERVICES

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

7.1 General-(Continued)

# 7.1.1 Channel Types-(Continued)

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this Tariff, there is no restriction against doing so.

Following is a brief description of each type of channel:

Metallic - A channel for the transmission of low-speed, varying signals at rates up to 30 baud.

Telegraph Grade - A channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

Voice Grade - A channel for the transmission of analog signals within an approximate bandwidth of 300-3000 Hz.

Wideband Analog - A channel for the transmission of wideband signals. The bandwidths are from 60 to 108 kHz (Group), from 312 to 552 kHz (Supergroup), from 564 to 3084 kHz (Mastergroup), from 300 Hz to 18 kHz, from 29 to 44 kHz or from 28 to 44 kHz.

Wideband Data - An analog channel for the transmission of synchronous serial data at rates of 19.2, 50.0 or 230.4 kbps or asynchronous serial data at rates of up to 19.2, 50.0 or 230.4 kbps.

MegaLink Data - A channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56.0 kbps. 56 kbps MegaLink Data channels are also provided in conjunction with Frame Relay Service.

High Capacity - A channel for the transmission of isochronous serial digital data at rates of 1.544, or 44.736 Mbps. High Capacity (1.544 Mbps) channels are also provided in conjunction with Frame Relay Service.

DovLink<sup>sm</sup> - A channel for the transmission of either synchronous or asynchronous data at speeds of 2.4, 4.8 or 9.6 kbps.

<sup>sm</sup>Service Mark of Southwestern Bell Telephone Company.

Issued: May 24, 1994 Effective: July 15, 1994 By M. H. SCHULTEIS, Division Manager-Regulatory & Industry Relations Southwestern Bell Telephone Company St. Louis, Missouri

CANCELLED - Missouri Public Service Commission - 02/16/2003 - IN-2003-0247



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

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#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

7.1.1 Channel Types-(Continued)

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this Tariff, there is no restriction against doing so.

Following is a brief description of each type of channel:

Metallic - A channel for the transmission of low-speed, varying signals at rates up to 30 baud.

Telegraph Grade - A channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

Voice Grade - A channel for the transmission of analog signals within an approximate bandwidth of 300-3000 Hz.

Wideband Analog - A channel for the transmission of wideband signals. The bandwidths are from 60 to 108 kHz (Group), from 312 to 552 kHz (Supergroup), from 564 to 3084 kHz (Mastergroup), from 300 Hz to 18 kHz, from 29 to 44 kHz or from 28 to 44 kHz.

Wideband Data - An analog channel for the transmission of syn chronous serial data at rates of 19.2, 50.0 or 230.4 kbps GANCELLED asynchronous serial data at rates of up to 19.2, 50.0 or 230.4 kbps.

JUL 151994 MegaLink Data - A channel for the digital transmission of synth R.S#2 chronous serial data at rates of 2.4, 4.8, 9.6 or 56.0 kyps4/26 R.S#2 Public Service Commission High Capacity - A channel for the transmission of isochronous ISSOURI serial digital data at rates of 1.544, 3.152, 6.312, 44.736 or

DovLink<sup>Sm</sup> - A channel for the transmission of either synchronous or asynchronous data at speeds of 2.4, 4.8 or 9.6 kbps.

(AT) <sup>Sm</sup>Service Mark of Southwestern Bell Telephone Company.

274.176 Mbps.

Issued: OCT - 5 1992

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DEC - 4 1992

4 1992

States Section?

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.

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

#### ACCESS SERVICES

	SPECIAL ACCESS SERVICE-(Continued)	RECEIVED
7.1	1 General-(Continued)	SEP 2 5 1989

7.1.1 Channel Types-(Continued)

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this Tariff, there is no restriction against doing so.

Following is a brief description of each type of channel:

Metallic - A channel for the transmission of low-speed, varying signals at rates up to 30 baud.

Telegraph Grade - A channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

Voice Grade - A channel for the transmission of analog signals CANCELLED

DEC 4 1992 BY 3rd

**Public Service Commission** 

Wideband Analog - A channel for the transmission of widesSOURI signals. The bandwidths are from 60 to 108 kHz (Group), from 312 to 552 kHz (Supergroup), from 564 to 3084 kHz (Mastergroup), from 300 Hz to 18 kHz, from 29 to 44 kHz or from 28 to 44 kHz.

Wideband Data - An analog channel for the transmission of synchronous serial data at rates of 19.2, 50.0 or 230.4 kbps or asynchronous serial data at rates of up to 19.2, 50.0 or 230.4 kbps.

MegaLink Data - A channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56.0 kbps.

High Capacity - A channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps. FILED

0CT 1 1989

Effective: OCT 1-Publie95ervice Commissio

Issued: SEP 2 5 1989

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

JUN 27 1986

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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

7.1.1 Channel Types-(Continued)

For purposes of ordering channels, each has been **Reblic Service Commission** type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this Tariff Charge in the restriction against doing so.

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Metallic - A channel for the transmission of low speed, warying signals at rates up to 30 baud.

Telegraph Grade - A channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

Voice Grade - A channel for the transmission of analog signals within an approximate bandwidth of 300-3000 Hz.

Program Audio - A channel for the transmission of audio signals. The nominal frequency bandwidths are from 50 to 15000 Hz, from 200 to 3500 Hz, from 100 to 5000 Hz or from 50 to 8000 Hz.

Wideband Analog - A channel for the transmission of wideband signals. The bandwidths are from 60 to 108 kHz (Group), from 312 to 552 kHz (Supergroup), from 564 to 3084 kHz (Mastergroup), from 300 Hz to 18 kHz, from 29 to 44 kHz or from 28 to 44 kHz.

Wideband Data - An analog channel for the transmission of synchronous serial data at rates of 19.2, 50.0 or 230.4 kbps or asynchronous serial data at rates of up to 19.2, 50.0 or 230.4 kbps.

Digital Data - A channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56.0 kbps. E

Issued:

JUN 27 1986

Effective: JUL 1 1986

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

#### ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued) 7.

7.1 General-(Continued)

7.1.1 Rate Categories-(Continued)

The following diagram depicts a generic view of the components of Special Access Service and the manner in which the components are combined to provide a complete Access Service.



SPECIAL ACCESS SERVICE



Issued:

# DEC 2 9 1983

Effective: JAN 0 1 1984

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

Access Services Tariff Section 7 1<sup>st</sup> Revised Sheet 2.01 Replacing Original Sheet 2.01

# ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE-(Continued)

- 7.1 General-(Continued)
- 7.1.1 Channel Types-(Continued)

Issued: January 10, 1997

Effective: February 10, 1997

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



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

Access Services Tariff Section 7 Original Sheet 2.01

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

- 7.1 General-(Continued)
- 7.1.1 Channel Types-(Continued)

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(AT) (AT) Business Video - a channel with two-way transmission capability for a standard 525-line/60-field monochrome or National Television Systems Committee (NTSC) - System M color video signal and an associated audio signal in 7 kHz range.

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Issued: FEB 0 9 1993

Effective: MAR 1 1 1999 BLIC SERVICE COMM

By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company St. Louis, Missouri No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

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

# ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE-(Continued)

- 7.1 General-(Continued)
- 7.1.1 Channel Types-(Continued)

Detailed descriptions of each of the channel types are provided in Paragraph 7.2, following.

The customer also has the option of ordering Voice Grade and analog and digital high capacity facilities (i.e., Group, Supergroup, Mastergroup, 1.544 Mbps, 3.152 Mbps, 6.312 Mbps, 44.736 Mbps and 274.176 Mbps) to a Telephone Company Hub for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the Hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in Paragraph 7.2, following.

AT) Additionally, the customer may specify optional features or BSEs for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features, BSEs and functions available are also set forth in Paragraph 7.2, following. AT)

> For example, a customer may order a 3.152 Mbps facility from a customerdesignated premises to a Telephone Company Hub for multiplexing to two 1.544 Mbps channels. The 1.544 Mbps channels may be further multiplexed at the same or a different Hub to Voice Grade or Wideband Analog (i.e., Group level) channels or may be extended to other customer designated premises. Optional features and BSEs may be added to either the 1.544 Mbps or Voice Grade channels.

#### 7.1.2 Rate Categories

There are four basic rate categories which apply to Special Access Service:

- Channel Terminations (described in Paragraph 7.1.2, A., following)
- Channel Mileage (described in Paragraph 7.1.2, B., following)
- Service to Service Through Connect Arrangements (described in Paragraph 7.1.2, C., following)
- Optional Features, BSEs and Functions (described in Paragraph 7.1.2, D., following)

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March 26, 1993

April 11, 1993 Effective:

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



(AT)

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Access Services Tariff Section 7 2nd Revised Sheet 3 Replacing 1st Revised Sheet 3

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

- 7.1 General-(Continued)
- 7.1.1 Channel Types-(Continued)

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Detailed descriptions of each of the channel types are provided in Paragraph 7.2, following.

The customer also has the option of ordering Voice Grade and analog and digital high capacity facilities (i.e., Group, Supergroup, Mastergroup, 1.544 Mbps, 3.152 Mbps, 6.312 Mbps, 44.736 Mbps and 274.176 Mbps) to a Telephone Company Hub for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the Hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in Paragraph 7.2, following.

Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are also set forth in Paragraph 7.2, following.

For example, a customer may order a 3.152 Mbps facility from a customerdesignated premises to a Telephone Company Hub for multiplexing to two 1.544 Mbps channels. The 1.544 Mbps channels may be further multiplexed at the same or a different Hub to Voice Grade or Wideband Analog (i.e., Group level) channels or may be extended to other customer designated premises. Optional features may be added to either the 1.544 **CANGELLED** Voice Grade channels.

7.1.2 Rate Categories

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- APR 11 1993 + BY 3 K.S. 3 Public Service Commissio There are four basic rate categories which apply to Special MISSOURI Service:
- Channel Terminations (described in Paragraph 7.1.2, A., following)
- Channel Mileage (described in Paragraph 7.1.2, B., following)
- Service to Service Through Connect Arrangements (described in Paragraph 7.1.2, C., following)
  - Optional Features and Functions (described in Paragraph 7.1.2, D., following)

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MAR 2.6 1990

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(CP)ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE-(Continued)

- 7.1 General-(Continued)
- 7.1.1 Channel Types-(Continued)



Detailed descriptions of each of the channel types are provided in Paragraph 7.2, following.

The customer also has the option of ordering Voice Grade and analog and digital high capacity facilities (i.e., Group, Supergroup, Mastergroup, 1.544 Mbps, 3.152 Mbps, 6.312 Mbps, 44.736 Mbps and 274.176 Mbps) to a Telephone Company Hub for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the Hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in Paragraph 7.2, following. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are also set forth in Paragraph 7.2, following.

For example, a customer may order a 3.152 Mbps facility from a customerdesignated premises to a Telephone Company Hub for multiplexing to two 1.544 Mbps channels. The 1.544 Mbps channels may be further multiplexed at the same or a different Hub to Voice Grade or Wideband Analog (i.e., Group level) channels or may be extended to other customer designated premises. Optional features may be added to either the 1.544 Mbps or the Voice Grade channels.

7.1.2 Rate Categories

There are three basic rate categories which apply to Special Access Service:

- Channel Terminations (described in Paragraph 7.1.2, A., following)
- Channel Mileage (described in Paragraph 7.1.2, B., following)
- Optional Features and Functions (described in Paragraph 7.1.2, C., following)



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JUN 27 1986

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#### ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
  - 7.1 General-(Continued)
  - 7.1.1 Rate Categories-(Continued)
    - A. Access Connection

This rate category provides a channel between the IC terminal location and the wire center serving the IC terminal location. This rate category varies by type of facility.

B. Special Transport

This rate category provides the actual physical transmission facilities between (1) an IC terminal location serving wire center and the End User's serving wire center, (2) an IC terminal location serving wire center and a Hub (3) a Hub and an End User's serving wire center, or (4) an End User's serving wire center and a WATS or WATS-type serving office (for Dedicated Access Line Service only). The facilities may be either analog or digital. This rate category has a fixed rate portion plus is distance-sensitive and varies by type of facility.

C. Features and Functions

This rate category provides available facility interface combinations (including signaling), Hub functions (i.e., bridging and multiplexing) and optional features or functions that improve the quality or utility of a service to meet specific communications requirements. In addition, there is a separate charge for Voice Grade Performance which is also included in this rate category. The Voice Grade Performance Charge applies for all Voice Grade Services (i.e., VG 1-3, 5-10) ordered by the IC.

D. Special Access Line

Special Access Line This rate category provides a channel between the wire center serving the End User's premises and the End User's premises This rate category varies by type of facility. by type of facility.

7.1.2 Facility Interface (FI) Combinations ALR S.H.3 When ordering Special Access PUBLIC SERVICE COMMISSION

When ordering Special Access Service, the IC must specify the facility interface (FI) that is desired for the service ordered. The FI defines the technical characteristics associated with the type of signaling and type

Issued:

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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 5th Revised Sheet 4 Replacing 4th Revised Sheet 4

# ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

# 7.1.2 Rate Categories-(Continued)

# A. Channel Termination

The Channel Termination rate category provides for the communications path between a customer designated premises and the serving wire center of that premises or for the communications path within a building which connects a

customer's facilities with a customer designated premises without routing through the serving wire center. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as an optional feature as set forth in Paragraph D., following. One Channel Termination Charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are both located in the same Telephone Company building.

B. Channel Mileage

The Channel Mileage rate category provides for the transmission facilities between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designated premises and a Telephone Company Hub, between two Telephone Company Hubs, or between a serving wire center associated with a customer designated premises and the WATS serving office. Channel mileage is portrayed in mileage bands. There are two rates that apply for each band, i.e., a flat rate per band and a rate per mile.

C. Service to Service Through Connect Arrangement

The Service to Service Through Connect Arrangement rate category provides for an interconnection of like services in a Telephone Company Hub or serving wire center as appropriate. This arrangement is an intraoffice connection that is provisioned in lieu of a channel termination to a customer designated premises. The through connection is provided in conjunction with Voice Grade Analog, MegaLink Data and High Capacity services. Additional Channel Mileage would apply if two like services are located in different Hubs or serving wire centers. The customer billed for the through connect arrangement will be responsible for all billing associated with the interconnection.

Issued:	August 26, 1994	Effective:	September 26, 1994	
	By M. H. SCHU	LTEIS, Executive Direc	ctor-External Affairs	
	S	outhwestern Bell Telep	hone	
		St. Louis, Missouri		FILED



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

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7.1 General-(Continued)

7.1.2 Rate Categories-(Continued)

A. Channel Termination

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The Channel Termination rate category provides for the communications path between a customer designated premises and the serving wire center of that premises or for the communications path within a building which connects a customer's facilities with a customer designated premises without routing through the serving wire center. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as an optional feature as set forth in Paragraph D., following. One Channel Termination Charge applies per customer designated premises ar which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are co-located in a Telephone SEP 261994 Company building.

#### B. Channel Mileage

The Channel Mileage rate category provides for the transmission Commissionbetween the serving wire centers associated with two Redstomet Moesignated premises, between a serving wire center associated with a customet designated premises, between a serving wire center associated with a customer designated premises and a Telephone Company Hub, between two Telephone Company Hubs, or between a serving wire center associated with a customer designated premises and the WATS serving office. Channel mileage is portrayed in mileage bands. There are two rates that apply for each band, i.e., a flat rate per band and a rate per mile.

C. Service to Service Through Connect Arrangement

The Service to Service Through Connect Arrangement rate category provides for an interconnection of like services in a Telephone Company Hub or serving wire center as appropriate. This arrangement is an intraoffice connection that is provisioned in lieu of a channel termination to a customer designated premises. The through connection is provided in conjunction with Voice Grade Analog, MegaLink Data and High Capacity services. Additional Channel Mileage would apply if two like services are located in different Hubs or serving wire centers. The customer billed for the through connect arrangement will be responsible for all billing associated with the interconnection.

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

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7.1 General-(Continued)

A. Channel Termination

7.1.2 Rate Categories-(Continued)

Access Services Tariff Section 7 3rd Revised Sheet 4 Replacing 2nd Revised Sheet 4 CANCELLED ACCESS SERVICES CANNEL 1891 FEB 20 1990 MAR 18 1991 FEB 20 1990 BY HER SATH BY AND SOURD BY HER COmmission BY HER COmmission BY HER COmmission BY HER COmmission BY HER SOUTHIC Service Commission MISSOUTHIC Service Commission RECEIVED 7. SPECIAL ACCESS SERVICE-(Continued)

The Channel Termination rate category provides for the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as an optional feature as set forth in Paragraph D., following. One Channel Termination Charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are co-located in a Telephone Company building.

B. Channel Mileage

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The Channel Mileage rate category provides for the transmission facilities between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designated premises and a Telephone Company Hub, between two Telephone Company Hubs, or between a serving wire center associated with a customer designated premises and the WATS serving office. Channel mileage is portrayed in mileage bands. There are two rates that apply for each band, i.e., a flat rate per band and a rate per mile.

(AT) C. Service to Service Through Connect Arrangement

> The Service to Service Through Connect Arrangement rate category provides for an interconnection of like services in a Telephone Company Hub or serving wire center as appropriate. This arrangement is an intraoffice connection that is provisioned in lieu of a channel termination to a customer designated premises. The through connection is provided in conjunction with Voice Grade Analog, MegaLink Data and High Capacity services. Additional Channel Mileage would apply if two like services are located in different Hubs or serving wire centers. The customer billed for the through connect arrangement will be responsible for all billing associated with the interconnection.

ssued: FEB 2 2 1990

Effective: MAR 2 6 1990

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MAR 26 1390

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

Public Service Commission

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Access Services Tariff Section 7 2nd Revised Sheet 4 Replacing 1st Revised Sheet 4

# ACCESS SERVICES

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7.1 General-(Continued)

ed) MAR 26 1990 BY R SH 4 MISSOURI BY BY R SH 4 MISSOURI Public Service Commission Public Service Commission 7.1.2 Rate Categories-(Continued)

A. Channel Termination

The Channel Termination rate category provides for the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as an optional feature as set forth in Paragraph C., following. One Channel Termination Charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are co-located in a Telephone Company building.

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B. Channel Mileage

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The Channel Mileage rate category provides for the transmission facilities between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designated premises and a Telephone Company Hub, between two Telephone Company Hubs, or between a serving wire center associated with a customer designated premises and the WATS serving office. Channel mileage is portrayed in mileage bands. There are two rates that apply for each band, i.e., a flat rate per band and a rate per mile.

C. Optional Features and Functions

The Optional Features and Functions rate category provides for optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path a specified function may be instanted at some a single rate element.

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Issued: OCT 1 4 1987 Effective: OCT 1 6 1987ublic Service Commission

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

(CP)ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued) 7.

7.1 General-(Continued)

7.1.2 Rate Categories-(Continued)

A. Channel Termination

The Channel Termination rate category provides for the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as an optional feature as set forth in Paragraph C., following. One Channel Termination Charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are co-located in a Telephone Company buildELED

B. Channel Mileage

OCT 16 1987 The Channel Mileage rate category provides for the transmission to the transmission ilities between the serving wire centers associated with provides to the transmission designated premises, between a serving wire center associated with a customer designated premises and a Telephone Company Mublic benefative. two Telephone Company Hubs. Channel mileage is portrayed in mileage bands. There are two rates that apply for each band, i.e., a flat rate per band and a rate per mile.

C. Optional Features and Functions

The Optional Features and Functions rate category provides for optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various. combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

**JUL 1** 1986 86-84 Public Service Commission

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Access Services Tariff Section 7 1st Revised Sheet 4 Replacing. Original Sheet 4 REGE JUN 27 1986 MISSUNKI Public Service Commission

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

#### ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued) 7.

- 7.1 General-(Continued)
- 7.1.2 Facility Interface (FI) Combinations-(Continued)

Access Services Tariff Section 7 Original Sheet 4 - 二辺居田河正司

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of facilities presented for connection to the Access Service at both the IC terminal location and the End User's premises.

The FI's specified for the IC terminal location and the End User's premises may be asymmetrical or symmetrical. However, only certain combinations are technically possible. Therefore, for purposes of this Tariff, FI's are being described in terms of available combinations for all services, except Dedicated Access Line Service which is only provided between an End User's premises and a WATS serving office. These combinations are set forth in Paragraph 7.2, following.

7.1.3 Optional Features and Functions

Optional features and functions may be added to a service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific facilities, but rather represent the end result in terms of performance characteristics. which may be obtained. These characteristics may be obtained by using various combinations of facilities. Although the facilities necessary to perform a specified function may be installed at various locations along the path of the service, including the premises of the End User, they will be charged for as a single rate element.

Examples of features or functions that are available include, but are not limited to, the following:

- Conditioning
- Transfer Arrangement
- Automatic Protection Switching

Descriptions and rates for each of the available features and functions are set forth in Paragraph 7.5.3, D., following.

7.1.4 Service Configuration

There are two types of service configurations over which Special Access Services are provided: typepoint service and multipoint service.

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

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OF MISSOURI

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# ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE

- 7.1 General (cont'd)
  - 7.1.2 Rate Categories (cont'd)
    - D. Optional Features, BSEs and Functions

The Optional Features, BSEs and Functions rate category provides for optional features, BSEs and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

Examples of Optional Features, BSEs and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

A Hub is a Telephone Company designated serving wire center at which bridging,
 (RT) multiplexing, Network Reconfiguration Service functions are performed. The bridging functions performed may be to connect three or more customer designated premises in a multipoint arrangement as set forth in Paragraph 7.3.7, following, or to reterminate Network
 (RT) Reconfiguration Service as set forth in Section 19, following. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. The Network Reconfiguration Service offerings allow the customer to reconfigure their Special Access Services.

Descriptions for each of the available Optional Features, BSEs and Functions are set forth in Paragraph 7.2, following. When ordering bridging and multiplexing, the customer will select the designated Hub(s) and subtending wire center(s) from the National Exchange Carrier Association, Inc. Tariff filed with the F.C.C.

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

Filed MO PSC

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

7.1 General-(Continued)

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Access Services Tariff Section 7 8th Revised Sheet 5 Replacing 7th Revised Sheet 5 ACCESS SERVICES CANCELLED AUG 26 1994 FEB 0 2 2003 AUG 26 1994 FEB 0 2 2003 AUG 26 1994 FEB 0 2 2003 But Hold Service Commossion

7.1.2 Rate Categories-(Continued)

SPECIAL ACCESS SERVICE-(Continued)

D. Optional Features, BSEs and Functions

The Optional Features, BSEs and Functions rate category provides for optional features, BSEs and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

Examples of Optional Features, BSEs and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

A Hub is a Telephone Company designated serving wire center at which (AT) bridging, multiplexing, Network Reconfiguration Service or Transport (AT) Resource Management Service functions are performed. The bridging functions performed may be to connect three or more customer designated premises in a multipoint arrangement as set forth in Paragraph 7.3.7, (AT) following, or to reterminate Network Reconfiguration Service or Transport (AT) Resource Management Service as set forth in Section 19, following. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. The Network (AT) Reconfiguration Service and Transport Resource Management Service offerings (CT) allow the customer to reconfigure their Special Access Services.

> Descriptions for each of the available Optional Features, BSEs and Functions are set forth in Paragraph 7.2, following. When ordering bridging and multiplexing, the customer will select the designated Hub(s) and subtending wire center(s) from the National Exchange Carrier Association, Inc. Tariff filed with the F.C.C.

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SEP 2 6 1994

By M. H. SCHULTEIS, Executive Director-External A'fithic Source Commission Southwestern Bell Telephone St. Louis, Missouri No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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

#### ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

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7.1.2 Rate Categories-(Continued)

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MAR 29 1993

MISSCURI Public Service Commission

Optional Features, BSEs and Functions (AT) D.

> The Optional Features, BSEs and Functions rate category provides for optional features, BSEs and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

- Examples of Optional Features, BSEs and Functions that are and Functions that are and Functions (AT) include, but are not limited to, the following: SEP 261994 BY 8 # R.S. 5
  - Signaling Capability
  - Hubbing Functions

  - A Hub is a Telephone Company designated serving wire center at Which bridging, multiplexing or Network Reconfiguration Service function more customer design more customer designated premises in a multipoint arrangement as set forth in Paragraph 7.3.7, following, or to reterminate Network Reconfiguration Service as set forth in Section 19, following. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. The Network Reconfiguration Service offering allows the customer to reconfigure their Special Access Services.
- (AT) Descriptions for each of the available Optional Features, BSEs and Functions are set forth in Paragraph 7.2, following. When ordering bridging and multiplexing, the customer will select the designated Hub(s) and subtending wire center(s) from the National Exchange Carrier Association, Inc. Tariff filed with the F.C.C. FII ED

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

ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
  - 7.1 General-(Continued)
  - 7.1.2 Rate Categories-(Continued)
  - D. Optional Features and Functions

The Optional Features and Functions rate category provides for optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

Examples of Optional Features and Functions that are available include, but are not limited to, the following: CANCELLED

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

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A Hub is a Telephone Company designating serving wire center MISSOURI bridging, multiplexing or Network Reconfiguration Service Commission performed. The bridging functions performed may be to connect three or more customer designated premises in a multipoint arrangement as set forth in Paragraph 7.3.7, following, or to reterminate Network Reconfiguration Service as set forth in Section 19, following. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. The Network Reconfiguration Service offering allows the customer to reconfigure their Special Access Services.

Descriptions for each of the available Optional Features and Functions are set forth in Paragraph 7.2, following. When ordering bridging and multiplexing, the customer will select the designated hub(s) and subtending wire center(s) from the National Exchange Carrier Association, Inc. Tariff filed with the F.C.C.

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7.1 General-(Continued)

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

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7.1.2 Rate Categories-(Continued)

7. SPECIAL ACCESS SERVICE-(Continued)

D. Optional Features and Functions

The Optional Features and Functions rate category provides for optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

A Hub is a Telephone Company designating serving wire wire and the service of the bridging, multiplexing or Network Reconfiguration Service) functions are performed. The bridging functions performed may be to connect three or more customer designated premises in a multipoint arrangement as set forth in Paragraph 7.3.7, following, or to reterminate Network Reconfiguration Service as set forth in Section 19, following. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. The Network Reconfiguration Service offering allows the customer to reconfigure their Special Access Services.

Descriptions for each of the available Optional Features and Functions are set forth in Paragraph 7.2, following.

#### 7.1.3 Service Configurations

There are four types of service configurations over which Special Access Services are provided: two-point service, multipoint service, WATS Access Line Service and Service to Service Through Connect Arrangement.

Issued: JUN 0 4 1991

Effective: AUG 0 5 1991 ED

By R. D. BARRON, President-Missouri Division AUG 5 1931 Southwestern Bell Telephone Company St. Louis, Missouri Lublic Service Commission



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7. SPECIAL AC	CESS SERVICE-(Continued)	RECEIVED
7.1 General-	(Continued)	FEB 20 1990
7.1.2 Rate (	Categories-(Continued)	MISSOURI
(FC) D. Optional	l Features and Functions	Public Service Commission
features improve These an represen be obtain combinat specifie	s and functions which may be ad its quality or utility to mee re not necessarily identifiable nt the end result in terms of p ined. These characteristics ma tions of equipment. Although	Ate category provides for optional ided to a Special Access Services to t specific communications requirements. The with specific equipment but rather performance characteristics which may ay be obtained by using various the equipment necessary to perform a t various locations along the path of as a single rate element.
	s of Optional Features and Fund , but are not limited to, the :	
- Hubbin - Condit - Trans A Hub is bridging perform more cus in Parag analog o	fer Arrangements s a Telephone Company designate g or multiplexing functions are ed. The bridging functions pe stomer designated premises in a graph 7.3.7, following. The mu or digital facilities to indivi	AUG 2 1991 BY <u>Strains</u> ed serving wire centerblaic Service Commission e performed. The bridging funissous formed may be to connect three or a multipoint arrangement as set forth ultiplexing functions are to channelize idual services requiring a lower
Descrip	y or bandwidth. tions for each of the available ns are set forth in Paragraph	
7.1.3 Servi	ce Configurations	-
		figurations over which Special point service, multipoint service,
(AT) WATS	Access Line service and Service	
(MT)		
Issued: FEB 2	2 1990 By R. D. BARRON, President	Effective: MAR 2 6 1990 FILED

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

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Access Services Tariff Section 7 3rd Revised Sheet 5 Replacing 2nd Revised Sheet 5

#### ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.1 General-(Continued)
- 7.1.2 Rate Categories-(Continued)

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SEP 2 5 1989

C. Optional Features and Functions-(Continued)

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

A Hub is a Telephone Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions performed may be to connect three or more customer designated premises in a multipoint arrangement as set forth in Paragraph 7.3.7, following. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.

Descriptions for each of the available Optional Features and Functions are set forth in Paragraph 7.2, following.

7.1.3 Service Configurations

There are three types of service configurations over which Special Access Servics are provided: two-point service, multipoint service, and a WATS Access Line.

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Public Service Commission

#### A. Two-Point Service

A two-point service connects two customer-designated premises, either on a directly connected basis or through a Hub where multiplexing functions are performed. CANCELLED

Issued: SEP 2 5 1989

Effective: QCT 1 1989

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OCT 1. 1989 89-14 Public Service Commission

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

(RT)
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Access Services Tariff Section 7 2nd Revised Sheet 5 Replacing 1st Revised Sheet 5

#### ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.1 General-(Continued)
- 7.1.2 Rate Categories-(Continued)
  - C. Optional Features and Functions-(Continued)

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

A Hub is a Telephone Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging func tions performed may be to connect three or more customer designated premises in a multipoint arrangement or to connect Program Audio Services as set forth in Paragraph 7.4.7, following. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.

Descriptions for each of the available Optional Features and Functions are set forth in Paragraph 7.2, following.

7.1.3 Service Configurations

(CT) There are three types of service configurations over which Special Access Services are provided: two-point service, multipoint service, (AT) and a WATS Access Line.

A. Two-Point Service

A two-point service connects two customer-designated premises, either on a directly connected basis or through a Hub where multiplexing functions are performed.

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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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OCT 1 3 1987

MISSOURI Public Service Commission

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(CP)ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued) 7.
- 7.1 General-(Continued)
  - 7.1.2 Rate Categories-(Continued)
  - C. Optional Features and Functions-(Continued)

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

A Hub is a Telephone Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions performed may be to connect three or more customer designated premises in a multipoint arrangement or to connect Program Audio Services as set forth in Paragraph 7.4.7, following. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.

Descriptions for each of the available Optional Features ANCE ED are set forth in Paragraph 7.2, following. OCT 16 1987

7.1.3 Service Configurations

There are two types of service configurations over which Speciflormmission Access Services are provided: two-point service page hour fipsing UFI service.

#### A. Two-Point Service

A two-point service connects two customer designated premises, either on a directly connected basis or through a Hub where multiplexing functions are performed.

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Issued: JUN 27 198	 Effective:	JUL 1	1986	

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#### ACCESS SERVICES

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Access Services Tariff

Section 7

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- 7. SPECIAL ACCESS SERVICE-(Continued)
  - 7.1 General-(Continued)
    - 7.1.4 Service Configurations-(Continued)
    - A. Two-Point Service
      - A two-point service is a channel which is provided to connect two locations. The locations connected may be:
        - an IC terminal location and an End User's premises, whether provided direct or through a Telephone Company-designated facility Hub,
        - An IC terminal location and a Hub
        - two IC terminal locations, or
        - two End User's premises.

All Special Access Services may be provided as two-point service.

B. Multipoint Service

A multipoint service is a channel that is provided to connect three or more locations. The locations connected may be:

- an IC terminal location and two or more End User's premises,
- all IC terminal locations
- all End User's premises
- multiple IC terminal locations and multiple End User's premises.

Only certain types of Special Access Service are provided as multipoint services. These are so designated in the Technical Service Descriptions set forth in Paragraphs 7.2.1 and 7.2.2, following. Multipoint Service is available with a maximum of three mid-links in tandem. The specific number of bridges required for such services will be determined by the Telephone Company.

Multipoint service is provided in the following manner:

1. The Telephone Company (Will designate serving wire centers where bridging (by service type) is available. These serving wire centers are referred to as Hubs 86

Issued:

DEC 2 9 1983

Effective: JAN 0 1 1984

83-253

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

PUBLIC SERVICE COMMISSION

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# ACCESS SERVICES

#### 7. SPECIAL ACCESS SERVICE

- 7.1 General (cont'd)
  - 7.1.3 Service Configurations

There are four types of service configurations over which Special Access Services are provided: two-point service, multipoint service, WATS Access Line Service and Service to Service Through Connect Arrangement.

A. Two-Point Service

A two-point service connects two customer-designated premises, either on a directly connected basis or through a Hub where multiplexing or Network Reconfiguration Service functions are performed. Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features, BSEs and Functions (when applicable)

In addition, a Special Access Surcharge as set forth in Paragraph 7.3.2, following, and a Message Station Equipment Recovery Charge as set forth in Paragraph 7.3.3, following, and/or an Inside Wire Recovery Charge as set forth in Paragraph 7.3.9, following, may be applicable.

Issued: January 3, 2003

Effective: February 2, 2003

Filed

MO PSC

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

CANCELLED - Missouri Public Service Commission - 02/16/2003 - IN-2003-0247

(RT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 8th Revised Sheet 6 Replacing 7th Revised Sheet 6

ACCESS SERVICES

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

#### 7.1 General-(Continued)

7.1.3 Service Configurations

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# MO. PUBLIC SERVICE COMM.

There are four types of service configurations over which Special Access Services are provided: two-point service, multipoint service, WATS Access Line Service and Service to Service Through Connect Arrangement.

A. Two-Point Service

A two-point service connects two customer-designated premises, either on a directly connected basis or through a Hub where multiplexing or Network Reconfiguration Service or Transport Resource Management Service functions are performed. Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features, BSEs and Functions (when applicable)

In addition, a Special Access Surcharge as set forth in Paragraph 7.3.2, following, and a Message Station Equipment Recovery Charge as set forth in Paragraph 7.3.3, following, and/or an Inside Wire Recovery Charge as set forth in Paragraph 7.3.9, following, may be applicable.





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Issued: Alla 2 & 1994

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

(AT)

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

#### ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

- 7.1 General-(Continued)
- 7.1.3 Service Configurations

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There are four types of service configurations over which Special Access Services are provided: two-point service, multipoint service, WATS Access Line Service and Service to Service Through Connect Arrangement.

A. Two-Point Service

A two-point service connects two customer-designated premises, either on a directly connected basis or through a Hub where multiplexing or Network Reconfiguration Service functions are performed. Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features, BSEs and Functions (when applicable)

In addition, a Special Access Surcharge as set forth in Paragraph 7.3.2, following, and a Message Station Equipment Recovery Charge as set forth in Paragraph 7.3.3, following, and/or an Inside Wire Recovery Charge as set forth in Paragraph 7.3.9, following, may be applicable.

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Issued:

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d: 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

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7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

# MISSOURI Public Service Commission

(MT) 7.1.3 Service Configurations

There are four types of service configurations over which Special Access Services are provided: two-point service, multipoint service, WATS Access Line Service and Service to Service Through Connect Arrangement.

A. Two-Point Service

(MT)

A two-point service connects two customer-designated premises, either on a directly connected basis or through a Hub where multiplexing or Network Reconfiguration Service functions are performed. Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

In addition, a Special Access Surcharge as set forth in Paragraph 7.3.2, following, and a Message Station Equipment Recovery Charge as set forth in Paragraph 7.3.3, following, and/or an Inside Wire Recovery Charge as set forth in Paragraph 7.3.9, following, may be applicable.

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APR 11 1993 BY <u>7 H R.S</u> Public Service Commission MISSOURI



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#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

7.1.3 Service Configurations-(Continued)

A. Two-Point Service

A two-point service connects two customer-designated premises, either on a directly connected basis or through a Hub where multiplexing or Network Reconfiguration Service functions are performed. Applicable rate elements are:

- Channel Terminations

- Channel Mileage (as applicable)

- Optional Features and Functions (when applicable)

In addition, a Special Access Surcharge as set forth in Paragraph 7.3.2, following, and a Message Station Equipment Recovery Charge as set forth in Paragraph 7.3.3, following, and/or an Inside Wire Recovery Charge as set forth in Paragraph 7.3.9, following, may be applicable.

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SEP 3 0 1991 BY <u>6</u> R. S. <del>#</del>6 Public Service Commission MISSOURI



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Effective: AUG 0 5 1991

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

AUG 5 1991

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#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

7.1.3 Service Configurations-(Continued)

MISSOURI Public Service Commission

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(MT) A. Two-Point Service

A two-point service connects two customer-designated premises, either on a directly connected basis or through a Hub where multiplexing functions are performed. Applicable rate elements are:

- Channel Terminations

- Channel Mileage (as applicable)

- Optional Peatures and Functions (when applicable)

In addition, a Special Access Surcharge as set forth in Paragraph 7.3.2, and a Message Station Equipment Recovery Charge as set forth in Paragraph 7.3.3, following, and/or an Inside Wire Recovery Charge as set forth in Paragraph 7.3.9, following, may be applicable.

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AUG 2 1991 BY <u>5<sup>rd</sup> R.S. <del>4</del></u> Public Service Commission MISSOURI

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

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	7. SPECIAL ACCESS SERVICE-(Continued)	RECEIVED
	7.1 General-(Continued)	SEP 2.5 1989
	7.1.3 Service Configurations-(Continued)	MESCHIN Public Service Commission
	A. Two-Point Service-(Continued)	
È	Applicable rate elements are:	
	- Channel Terminations - Channel Mileage (as applicable) - Optional Features and Functions (when	applicable)
( F( )		
( F( )	and a Message Station Equipment Recover Paragraph 7.3.3, following, and/or an I	
( FC )	forth in Paragraph 7.3.9, following, ma	ay be applicable.

CANCELLED MAR 26 1990 BY 44 A.S.#6 BY 44 A.S.#6 Public Service Commission MISSOLIAI

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Issued: SEP 2 5 1989

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

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(CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.1 General-(Continued)
- 7.1.3 Service Configurations-(Continued)
- A. Two-Point Service-(Continued)

Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

In addition, a Special Access Surcharge as set forth in Paragraph 7.4.2, following, and a Message Station Equipment Recovery Charge as set forth in Paragraph 7.4.3, following, and/or an Inside Wire Recovery Charge as set forth in Paragraph 7.4.9, following, may be applicable.

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	••••	St. Louis, Missouri				

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ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE
  - 7.1 General-(Continued)
  - 7.1.4 Service Configurations-(Continued)
  - B. Multipoint Service-(Continued)
    - 2. The IC will specify the bridging serving wire center (i.e., Hub), selected from the Telephone Company list of available locations.
    - 3. Service will be priced as provided.
      - Access Connection from the designated IC terminal location to IC serving wire center. (Additional IC terminal locations will be treated as End User's premises.)
      - b. Special Transport from the IC serving wire center to the bridging serving wire center (may also be End User's serving wire center.)
      - c. Appropriate facility interface combination (per End User's premises bridged) and bridging equipment charge. The facility interfaces at the End User's premises do not have to be the same at each End User's premises on a multipoint service, but all must work in combination with a common IC terminal location facility interface. The rates to be applied at the IC terminal location are those for the facility interface combination with the highest monthly rate at the initial installation of service.
      - d. Special Transport from the bridging serving wire center to the End User's serving wire center, if required.
      - e. Special Access Line from the End User's wire center to End User premises (per End User's location).
      - f. Special Access Service Purcharge (per End User's premises)
      - g. Features and functions
         VG performance
        - Conditioning

JUL 1 1986 JUL 1 1986 BY AND R S. HG PUBLIC SERVICE COMMISSION



Issued: AUG 1 5 1984

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Effective: OCT 1 5 18 Public Service Commission

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

Access Services Tariff

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Section 7

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

ACCESS SERVICES

- SPECIAL ACCESS SERVICE
  - 7.1 General-(Continued)
  - 7.1.4 Service Configurations-(Continued)
    - B. Multipoint Service-(Continued)
      - The IC will specify the bridging serving wire center (i.e., Hub), 2. selected from the Telephone Company list of available locations ED Service will be priced as provided.
      - 3. Service will be priced as provided.
        - a. Access Connection from the designated IC terminal OCT 15 1984 location to IC serving wire contained in terminal OCT 15 1984 location to IC serving wire center. (Additional IC PUBLIC SERVICE COMMISSION terminal locations will be treated as End User's RY premises.) of Missouri
        - Special Transport from the IC serving wire center to b. the bridging serving wire center (may also be End User's serving wire center.)
        - c. Appropriate facility interface combination (per End User's premises bridged) and bridging equipment charge. The facility interfaces at the End User's premises do not have to be the same at each End User's premises on a multipoint service, but all must work in combination with a common IC terminal location facility interface. The rates to be applied at the IC terminal location are those for the facility interface combination with the highest rates at the initial installation of service.
        - d. Special Transport from the bridging serving wire center to the End User's serving wire center, if required.
        - Special Access Line from the End User's wire center to e. End User premises (per End User's location).
        - Special Access Service surcharge (per End User's prem f.
        - g. Features and functions
          - VG performance
          - Conditioning

Issued: DEC 2 9 1983

JAN 0 1 1984 Effective:

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

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

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

# ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE-(Continued)

- 7.1 General-(Continued)
- 7.1.3 Service Configurations-(Continued)
  - A. Two-Point Service-(Continued)

The following diagram depicts a two-point Voice Grade Service connecting two customer designated premises located 15 miles apart. The service is provided with C-Type conditioning.



Applicable rate elements are:

- Channel Terminations (2 applicable)
- Channel Mileage (mileage band over 8 to 25 miles)
- C-Type Conditioning Optional Feature (1 per Channel Termination)

Effective: July 1, 1986



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

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

#### ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
  - 7.1 General-(Continued)
  - 7.1.4 Service Configurations-(Continued)
  - B. Multipoint Service-(Continued)

Access Services Tariff Section 7 Original Sheet 7



# **MULTIPOINT SERVICE CONFIGURATION**



By R. D. BARRON, Vice President-Missouri Southwestern Bell Telephone Company St. Louis. Missouri No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

# ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

### 7.1.3 Service Configurations-(Continued)

### B. Multipoint Service

Multipoint service connects three or more customer-designated premises through a Telephone Company Hub. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between Hubs (i.e., bridging locations). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the service descriptions set forth in Paragraph 7.2, following.

Multipoint service utilizing a customized technical specifications package as set forth in Paragraph 7.2, following, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will select the designated bridging Hub(s) for its serving wire center and the appropriate subtending wire center(s) from the National Exchange Carrier Association, Inc. Tariff filed with the F.C.C.

Applicable Rate Elements are:

- Channel Terminations (one per customer-designated premises)
- Channel Mileage (as applicable between each designated customer premises serving wire center and the designated Hub and between Hubs)
  Bridging
- Additional Optional Features, BSEs and Functions (when applicable)

In addition, the Special Access Surcharge as set forth in Paragraph 7.3.2, following, and a Message Station Equipment Recovery Charge as set forth in Paragraph 7.3.3, following, may be applicable.

Effective: April 11, 1993



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

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 7th Revised Sheet 8 Replacing 6th Revised Sheet 8

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

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7.1.3 Service Configurations-(Continued)

B. Multipoint Service

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Multipoint service connects three or more customer-designated premises through a Telephone Company Hub. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between Hubs (i.e., bridging locations). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the service descriptions set forth in Paragraph 7.2, following.

Multipoint service utilizing a customized technical specifications package as set forth in Paragraph 7.2, following, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will select the designated bridging Hub(s) for his serving wire center and the appropriate subtending wire center(s) from the National Exchange Carrier Association, Inc. Tariff filed with the F.C.C.

Applicable Rate Elements are:

- Channel Terminations (one per customer-designated premises)
- Channel Mileage (as applicable between each designated customer premises serving wire center and the designated Hub and between Hubs)
   Bridging
- Additional Optional Features and Functions (when applicable)

In addition, the Special Access Surcharge as set forth in Paragraph 7.3.2, following, and a Message Station Equipment Recovery Charge as set forth in Paragraph 7.3.3, following, may be applicable. **CANCELLED** 

APR 11 1993 BY <u>Sth</u> R, 5 # 8 Public Service Commission MISSOURI FILED Issued: AUG 0 9 1991 Effective SEP 0 9 1991 SEP 3 0 1991 By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff Section 7 6th Revised Sheet 8 Replacing 5th Revised Sheet 8 RECEIVED

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

MISSOURI Public Service Commission

FEB 2 0 1990

7.1.3 Service Configurations-(Continued)

B. Multipoint Service

Multipoint service connects three or more customer designated premises through a Telephone Company Hub. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between Hubs (i.e., bridging locations). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the service descriptions set forth in Paragraph 7.2, following.

Multipoint service utilizing a customized technical specifications package as set forth in Paragraph 7.2, following, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will select the designated bridging Hub(s) for his serving wire center from the National Exchange Carrier Association, Inc. Tariff filed with the F.C.C.

> SEP 3 0 1991 By 7 R.S. F

Applicable Rate Elements are:

**Public Service Commission** 

Channel Terminations (one per customer designated premises) MISSOURI
 Channel Mileage (as applicable between each designated customer premises serving wire center and the designated Hub and between Hubs)

- Bridging

- Additional Optional Features and Functions (when applicable)

In addition, the Special Access Surcharge as set forth in Paragraph 7.3.2, following, and a Message Station Equipment Recovery Charge as set forth in Paragraph 7.3.3, following, may be applicable.



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Issued: FEB 2 2 1990 '

Effective: MAR 2 6 1990

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

MAR 26 1990

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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 5th Revised Sheet 8 Replacing 4th Revised Sheet 8

#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continu	ed)
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7.1 General-(Continued)

7.1.3 Service Configurations-(Continued)

B. Multipoint Service

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Multipoint service connects three or more customer designated premises through a Telephone Company Hub. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between Hubs (i.e., bridging locations). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the service descriptions set forth in Paragraph 7.2, following.

Multipoint service utilizing a customized technical specifications package as set forth in Paragraph 7.2, following, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will select the designated bridging Hub(s) for his serving wire center from the appropriate Exchange Carrier Association's Wire Center Information Tariff filed with the F.C.C. and the Telephone Company Bridging and Hubbing List which specifies the type of bridging available at a given location and the wire centers served from that Hub.

Applicable Rate Elements are:

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(F(') (F(') - Channel Terminations (one per customer designated premises)

- Channel Mileage (as applicable between each designated customer premises serving wire center and the designated Hub and between Hubs)
   Bridging
- Addition Optional Features and Functions (when applicable)

In addition, the Special Access Surcharge as set forth in Paragraph 7.3.2, following, and a Message Station Equipment Recovery Charge as set forth in Paragraph 7.3.3, following, and/or an Inside Wire Recovery Charge as set forth in Paragraph 7.3.9, Following, may be applicable.

CANCE MAR 26 2 OCT 1. 1989 89 - 14 ic fanice 00 BYTE Puplic Service Commission 1989 BY COURI Effective: OCT 1 1 By R. D. BARRON, President-Missouri Division JEF 2 5 1989 [ssued: 1989 Southwestern Bell Telephone Company St. Louis, Missouri

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

Access Services Tariff Section 7 4th Revised Sheet 8 Replacing 3rd Revised Sheet 8

#### ACCESS SERVICES

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

- 7.1 General-(Continued)
- 7.1.3 Service Configurations-(Continued)
  - B. Multipoint Service

Multipoint service connects three or more customer designated premises through a Telephone Company Hub. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between Hubs (i.e., bridging locations). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the service descriptions set forth in Paragraph 7.2, following.

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When ordering, the customer will select the designated bridging Hub(s) for his serving wire center from the appropriate Exchange Carrier Association's Wire Center Information Tariff filed with the F.C.C. and the Telephone Company Bridging and Hubbing List which specifies the type of bridging available at a given location and the wire centers served from that Hub. OCT 1 1989 that Hub.

- Channel Terminations (one per customer designated premises) ce (uninission - Channel Mileage (as applicable between each doord premises) ce (uninission

- premises serving wire center and the designated Hub and between Hubs) - Bridging
- Addition Optional Features and Functions (when applicable)

In addition, the Special Access Surcharge as set forth in Paragraph 7.4.2, following, and a Message Station Equipment Recovery Charge as set forth in Paragraph 7.4.3, following, and/or an Inside Wire Recovery Charge as set forth in Paragraph 7.4.9, following, may be applicable.

Issued: AUG 15 1988

Effective: SEP 14 1988 By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

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SEP 14 1988

Public Service Commission

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AUG 1 5 1988

MISSOURI Public Service Commission

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Access Services Tariff Section 7 3rd Revised Sheet 8 Replacing 2nd Revised Sheet 8

#### ACCESS SERVICES

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

7.1 General-(Continued)

7.1.3 Service Configurations-(Continued)

B. Multipoint Service

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MISSOURI Public Service Commission

Multipoint service connects three or more customer designated premises through a Telephone Company Hub. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between Hubs (i.e., bridging locations). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the service descriptions set forth in Paragraph 7.2, following.

Multipoint service utilizing a customized technical specifications package as set forth in Paragraph 7.2, following, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging Hub(s) selected from the appropriate Exchange Carrier Association Tariff filed with the F.C.C. In addition, the Telephone Company will make available a Hub list which will specify the type of bridging available at a given location and the wire centers served from that Hub.

Applicable Rate Elements are:

- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable between each designated customer premises serving wire center and the Hub and between Hubs)
- Bridging

(CT)

- Addition Optional Features and Functions (when applicable)

In addition, the Special Access Surcharge as set forth in Paragraph 7.4.2, following, and a Message Station Equipment Recovery Charge as set forth in Paragraph 7.4.3, following, and/or an Inside Wire Recovery Charge as set forth in Paragraph RIGELED wing, may be applicable.

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	SEP 1 4 1988 BY <u>4th</u> R.S. #8 Public Service Commission MISSOURI		Public	JUL 1 1988 84-222 et al. Service Commission
Issued: MAY 2		Effective:	JUL 1	1988
	By R. D. BARRON, President- Southwestern Bell Tele St. Louis. Mis	ephone Company		

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(CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.1 General-(Continued)
- 7.1.3 Service Configurations-(Continued)
- B. Multipoint Service

Multipoint service connects three or more customer designated premises through a Telephone Company Hub. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between Hubs (i.e., bridging locations). Only certain types of Special Access Service are provided as multipoint service. These are so designated in the service descriptions set forth in Paragraph 7.2, following.

Multipoint service utilizing a customized technical specifications package as set forth in Paragraph 7.2, following, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging Hub(s) selected from the Exchange Carrier Association Tariff, F.C.C. No. 2. In addition, the Telephone Company will make available a Hub list which will specify the type of bridging available at a given lose that the wire centers served from that Hub. JUL 11988

Applicable Rate Elements are:

- Channel Terminations (one per customer designated press. Channel Mileage (as applicable between each dated press. Con
- Channel Mileage (as applicable between each designated provises) Commission customer premises serving wire center and the HuP and be MISS Hubs)
  Bridging
  Addition Optional Footure

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- Addition Optional Features and Functions (when applicable)

In addition, the Special Access Surcharge as set forth in Paragraph 7.4.2, following, and a Message Station Equipment Recovery Charge as set, forth in Ρ. f

aragraph 7.4.3, followin orth in Paragraph 7.4.9,	g, and/or an Inside ' following, may be a	Wire Rec pplicábl	overy Charg e.	e as set
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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)

- 7.1 General-(Continued)
- 7.1.5 Alternate Use

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OCT 15 1984

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Alternate Use occurs when an IC uses a service for dufferentictypesing Ssion transmission at different times. The IC may transfer from one type of operation to another at will, but only one type of transmission can be used at a time.

The Telephone Company will review each request for alternate use on an individual-case basis. If it agrees to allow the alternate use, the arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual-case basis. The IC will pay the stated tariff rates for the Access Service rate elements ordered (i.e., Access Connection, Special Transport, Facility Interface Combination and Special Access Line).

#### 7.1.6 Special Facilities Routing

An IC may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are as set forth in Section 11, following.

7.1.7 Design Layout Report

The Telephone Company will provide to the IC the make-up of the facilities and services provided under this Tariff as Special Access to aid the IC in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the IC at no charge.

#### 7.1.8 Acceptance Testing

At no additional charge, the Telephone Company will, at the IC's request, cooperatively test at the time of installation the following parameters:  $\sigma \in \mathbb{R}$ 

- For Voice Grade (FS) Services 1, 2, 3, 6, 7, 8, 9, and 10: loss, three-tone slope, dc continuity and operational signaling. When the Access Connection provides a four-wire-voice-

Issued: AUG 1 5 10AA

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

PUBLIC SERVICE COMMISSION

**Effective:** 

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#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

7.1.5 Alternate Use

Alternate Use occurs when an IC uses a service for different types of transmission at different times. The IC may transfer from one type of operation to another at will, but only one type of transmission can be used at a time.

The Telephone Company will review each request for alternate use on an individual-case basis. If it agrees to allow the alternate use, the arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual-case basis and filed in Section 12, Specialized Service or Arrangements. The IC will pay the stated tariff rates for the Access Service rate elements ordered (i.e., Access Connection, Special Transport, Facility Interface Combination and Special Access Line).

7.1.6 Special Facilities Routing

An IC may request that the facilities used to provide operational Access Service be specially routed. The regulations, whiles and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are as set forth in Section 11, following. 0.715 1984

7.1.7 Design Layout Report

The Telephone Company will provide to the plutthe mateoup of the facilities and services provided under this Tariff as Special Access to aid the IC in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the IC at no charge.

7.1.8 Acceptance Testing

At no additional charge, the Telephone Company will, at the IC's request, cooperatively test at the time of installation the following parameters:

- For Voice Grade (VG) Services 1, 2, 3, 6, 7, 8, 9, and510: loss, three-tone slope, dc continuity and operational signaling. When the Access Connection provides a four-wire voice

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Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

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

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Access Services Tariff

Section 7

Original Sheet 8

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Public Service Commission

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Access Services Tariff Section 7 2nd Revised Sheet 9 Replacing 1st Revised Sheet 9

# ACCESS SERVICES

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

- 7.1 General-(Continued)
- 7.1.3 Service Configurations-(Continued)
  - B. Multipoint Service-(Continued)

Example: Voice Grade multipoint service connecting four customer premises via two customer designated bridging hubs.



Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage (5 sections, each from appropriate mileage band)
- Bridging Optional Feature (6 applicable, i.e., each bridge port)

Issued:	August 15,	1988
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Effective: September 14, 1988

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



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(CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.1 General-(Continued)
- 7.1.3 Service Configurations-(Continued)
- B. Multipoint Service-(Continued)







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#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

- 7.1 General-(Continued)
- 7.1.8 Acceptance Testing-(Continued)

transmission interface and the network interface provides two-wire voice transmission, (i.e., there is a four-wire to two-wire conversion in Special Transport), balance (equal level echo path loss) may also be tested. Additionally, C-notched noise tests will be provided on VG6, 7, 8, 9 and 10.

- All other Access Services will be tested to the performance parameters specified for the individual services.

If acceptance tests are not started within 30 minutes after the scheduled appointment time for such tests, as negotiated between the Telephone Company and the IC, additional charges will apply, as set forth in Section 13, Paragraph 13.2.6, following.

7.1.9 Ordering Options and Conditions

There are two ordering options available to an IC in the provision of Special Access Service. These are:

- Access Order - Planned Facilities Order

These options are set forth in detail in Section 5, preceding, as are the conditions under which the options may be elected. Cancellation charges associated with these options are also included in Section 5, preceding.

#### 7.1.10 Jurisdictional Report Requirements

When an IC orders Special Access Service for both interstate and intrastate use, the IC is responsible for providing reports as set forth in Section 2, Paragraph 2.3.15, prepare the set of the set

FALER, JUL 1 1986 JAN - 1 1934 83-253 PUBLIC SERVICE COMMISSION 2-981-1 of Missouri

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

By R. D. BARRON, Vice President-Missouri Southwestern Bell Telephone Company St. Louís, Missourí No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff Section 7 2nd Revised Sheet 9.01 Replacing 1st Revised Sheet 9.01

# ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE-(Continued)

- 7.1 General-(Continued)
- 7.1.3 Service Configurations-(Continued)
  - C. WATS Access Line Service

WATS Access Line (WAL) provides a Voice Grade Channel Termination and Channel Mileage, where appropriate, between the End User premises and the WATS serving office and is used in conjunction with Switched Access Service as set forth in Section 6, Paragraph 6.2.5 and 6.3.6, preceding.

The following diagram depicts a WATS Access Line Service connecting a customer designated premises to the WATS serving office. The customer's serving wire center and the WATS serving office are located 10 miles apart.



Applicable rate elements for the WATS Access Line are:

- Channel Termination (1 applicable)

- Channel Mileage (mileage band over 8 to 25 miles)

- Optional Features and Functions (when applicable)

In addition, a Special Access Surcharge, as set forth in 7.3.2, following, a Message Station Equipment Recovery Charge as set forth in 7.3.3, following, and/or an Inside Wire Recovery Charge as set forth in 7.3.9, following, may be applicable.



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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 1st Revised Sheet 9.01 Replacing Original Sheet 9.01

#### ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.1 General-(Continued)
- 7.1.3 Service Configurations-(Continued)
- C. WATS Access Line Service

WATS Access Line (WAL) provides a Voice Grade Channel Termination and Channel Mileage, where appropriate, between the End User premises and the WATS serving office and is used in conjunction with Switched Access Service as set forth in Paragraph 6.2.5, preceding.

The following diagram depicts a WATS Access Line Service connecting a customer designated premises to the WATS serving office. The customer's serving wire center and the WATS serving office are located 10 miles apart.

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Applicable rate elements for the WATS Access Line are:

- Channel Termination (1 applicable)
- Channel Mileage (mileage band over 8 to 25 miles)
- Optional Features and Functions (when applicable)

In addition, a Special Access Surcharge, as set forth in 7.3.2, following, a Message Station Equipment Recovery Charge as set forth in 7.3.3, following, and/or an Inside Wire Recovery Charge as set forth in 7.3.9, following may be applicable.

FILED OCT 1 1989 Fublic Service Commissio DCT 1 Effective: Issued: SEP 2 5 1989 1989 By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company

St. Louis, Missouri

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SEP 2.5 1989

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No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose Original Sheet 9.01 of canceling this tariff. CANCELLED ACCESS SERVICES RECEIVED 7. SPECIAL ACCESS SERVICE-(Continued) OCT 1 1989. BY / PARS # 9.01 OCT 1 3 1987 7.1 General-(Continued) Public Service Commission MISSOURI 7.1.3 Service Configurations-(Continued) MISSOURIPublic Service Commission (AT) C. WATS Access Line Service WATS Access Line (WAL) provides a Voice Grade Channel Termination and Channel Mileage, where appropriate, between the End User premises and the WATS serving office and is used in conjunction with Switched Access Service as set forth in Paragraph 6.2.5, preceding. The following diagram depicts a WATS Access Line Service connecting a customer designated premises to the WATS serving office. The customer's serving wire center and the WATS serving office are located 10 miles apart. **PREMISES** PREMISES SERVING WATS WIRE SERVING CENTER OFFICE CHANNEL CHANNEL SWITCHED TERMINATION MILEAGE ACCESS Applicable rate elements for the WATS Access Line are: - Channel Termination (1 applicable) - Channel Mileage (mileage band over 8 to 25 miles) - Optional Features and Functions (when applicable) In addition, a Special Access Surcharge, as set forth in 7.4.2, following, a Message Station Equipment Recovery Charge as set forth in 7.4.3, following, and/or an Inside Wire Recovery Charge as set forth in 7.4.9, following (AT) may be applicable. FILED OCT 16 1987 Public Service Commission Issued: OCT 1 4 1987 Effective: UCT 16 1987

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

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

Access Services Tariff Section 7 Original Sheet 9.02

# ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE-(Continued)

- 7.1 General-(Continued)
- 7.1.3 Service Configurations-(Continued)
  - D. Service to Service Through Connect Arrangement

The following diagram depicts Voice Grade Services, extended from DS1 multiplexed services, utilizing a through connect arrangement in a Telephone Company Hub. Additional channel mileage was required to co-terminate the services.



CT - Channel Termination CM - Channel Mileage 0 - Service to Service Through Connect Arrangement

Applicable Rate Elements are:

- Two 1.544 Mbps Channel Terminations (1)
- Two DS1 to Voice Multiplexers (1)
- Voice Grade Channel Mileage
- Multiplexer to Multiplexer Service to Service Through Connect Arrangement

(1) Service already established

February 22, 1990

Issued:

Effective: March 26, 1990

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



# ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

### 7.1 General-(Continued)

### 7.1.4 Alternate Use

Alternate use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual-case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered (i.e., Channel Terminations, Channel Mileage [as applicable] and Optional Features, BSEs and Functions [if any]).

7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in Section 11., following.

7.1.6 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the make-up of the facilities and services provided under this tariff as Special Access Service to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge and will be reissued or updated whenever these facilities are materially changed.

# 7.1.7 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test, at the time of installation, the following parameters:

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Effective: April 11, 1993

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



(AT)

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

(CP)ACCESS SERVICES

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

7.1.4 Alternate Use

Alternate use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual-case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered (i.e., Channel Terminations, Channel Mileage [as applicable] and

7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special 193 to Access Service be specially routed. The regulations, rates And Abartes and for Special Facilities Routing (i.e., Avoidance, Diversity and Cabres and Only) are set forth in Section 11., following. Access service be specially routed. The regulations, rates And Abaress Miles Abaress Miles Abaress Miles Abaress Miles And Abaress Miles A

7.1.6 Design Layout Report

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7.1.7 Acceptance Testing

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

JUN 27 1986

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Access Services Tariff

Replacing Original Sheet 10

1st Revised Sheet 10\_

Section 7

WIZZUNKI Public Service Commission

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#### ACCESS SERVICES

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Public Service Commission

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Technical Service Descriptions for Special Access Service

Special Access Service may be either analog or digital. Analog services are differentiated by spectrum and bandwidth. Digital services are differentiated by bit rate.

. There are five major categories of analog service and three digital services. These are:

- Analog: Narrowband Voice Grade Program Audio Wideband Dedicated Access Line Service
- Digital: Wideband Digital Data High Capacity

Each of these, except Dedicated Access Line Service, are further broken down into a number of subcategories.

This Section includes the technical service descriptions for each type of analog and digital service provided, typical applications for which each type of service can be used, the optional features or functions available with specific services, transmission performances and the available Facility Interface (FI) combinations with which service can be provided. The Facility Interface codes are described in Paragraph 7.3, following.

The Telephone Company will maintain existing transmission performance on service configurations installed prior to January 1, 1984. All service configurations installed after January 1, 1984, will conform to the transmission performance standards contained in this Tariff, except as follows. Where local facility conditions cannot support the transmission performance standards contained in this Tariff, transmission standards that can be supported will be uniformly applied to the CE

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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

# 7. SPECIAL ACCESS SERVICE-(Continued)

- 7.1 General-(Continued)
- 7.1.7 Accepting Testing-(Continued)
  - A. For Voice Grade analog services, (including WATS Access Lines) acceptance tests will include tests for loss, three-tone slope, DC continuity, operational signaling, C-notched noise and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade Services, a balance (improved loss) test will be made if the customer has ordered the Improved Return Loss or Improved Equal Level Echo Path Loss optional features.
  - B. For other analog services, acceptance tests will include tests for the parameters applicable to the service and specified in the order for service.
  - C. For digital services, acceptance tests will include tests applicable to the service as specified in the technical references listed in Paragraph 7.2, following.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade Services and Digital to test other parameters, as described in Section 13, Paragraph 13.3.5, B., following, is available at the customer's request. All test results will be made available to the customer upon request.

# 7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order Provisions set forth in Section 5, preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Charge Charges, Cancellation Charges, etc.).



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Access Services Tariff Section 7 5th Revised Sheet 11 Replacing 4th Revised Sheet 11

ACCESS SERVICES

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SPECIAL ACCESS SERVICE-(Continued)

- 7.1 General-(Continued)
- 7.1.7 Accepting Testing-(Continued)

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- A. For Voice Grade analog services, (including WATS Access Lines) acceptance tests will include tests for loss, three-tone slope, DC continuity, operational signaling, C-notched noise and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade Services, a balance (improved loss) test will be made if the customer has ordered the Improved Return Loss or Improved Equal Level Echo Path Loss optional features.
- B. For other analog services, acceptance tests will include tests for the parameters applicable to the service and specified in the order for service.
- C. For digital services, acceptance tests will include tests applicable to the service as specified in the technical references listed in Paragraph 7.2, following.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade Services and Digital to test other parameters, as described in Section 13, Paragraph 13.3.5, B., following, is available at the customer's request. All test results will be made available to the customer upon request.

- (AT) D. For Business Video Service, acceptance tests will include tests applicable to the service as specified in the technical references listed in Paragraph 7.2,
   (AT) following.
  - 7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order Provisions set forth in Section 5, preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Charge Charges, Cancellation Charges, etc.).

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APR 1 9 1993

MO. PUBLIC SERVICE COMM

Issued: FEB 0 9 1993

APR 1 9 1993 Effective:

By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company St. Louis, Missouri
No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 4th Revised Sheet 11 Replacing 3rd Revised Sheet 11

#### ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

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AUG 9 1991 MISSOURI

Public Service Commission

7.1.7 Accepting Testing-(Continued)

- A. For Voice Grade analog services, (including WATS Access Lines) acceptance tests will include tests for loss, three-tone slope, DC continuity, operational signaling, C-notched noise and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade Services, a balance (improved loss) test will be made if the customer has ordered the Improved Return Loss or Improved Equal Level Echo Path Loss optional features.
- (RT) B. For other analog services, acceptance tests will include tests for the parameters applicable to the service and specified in the order for service.
- (AT) C. For digital services, acceptance tests will include tests applicable to the service as specified in the technical references listed in Paragraph 7.2,
   (AT) following.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade Services and Digital to test other parameters, as described in Section 13, Paragraph 13.3.5, B., following, is available at the customer's request. All test results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order Provisions set forth in Section 5, preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Charge Charges, Cancellation Charges, etc.).

> CANCELLED APR 19 1993 # BY 5 Th R.S. () BY 5 Th R.S. () Public Service Commission MISSOURI

> > FILED

Issued: AUG 0 9 1991

Access Services Tariff Section 7 3rd Revised Sheet 11 Replacing 2nd Revised Sheet 11

#### ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

No supplement to this

tariff will be issued

except for the purpose

of canceling this tariff.

MISSOURI Public Service Commission

- 7.1.7 Accepting Testing-(Continued)
- A. For Voice Grade analog services (including WATS Access Lines) acceptance tests will include tests for loss, three-tone slope, DC. continuity, operational signaling, C-notched noise and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade Services, a balance (improved loss) test will be made if the customer has ordered the Improved Return Loss or Improved Equal Level Echo Path Loss optional features.
- B. For other analog services and for digital service, acceptance tests will include tests for the parameters applicable to the service and specified in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade Service to test other parameters, as described in Paragraph 13.3.5, B., following, is available at the customer's request. All test results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order Provisions set forth in Section 5, preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

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Public Service Commissio: MISSOURI

Issued: FEB 2 2 1990

## Effective: MAR 2 6 1990

MAR 26 1990

FILED

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

Public Service Commissic.

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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 2nd Revised Sheet 11 Replacing 1st Revised Sheet 11

#### ACCESS SERVICES

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MISSOURI **Public Service Commission** 

7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

7.1.7 Accepting Testing-(Continued)

- (AT) A. For Voice Grade analog services (including WATS Access Lines) acceptance tests will include tests for loss, three-tone slope, DC continuity, operational signaling, C-notched noise and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade Services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
  - B. For other analog services and for digital service, acceptance tests will include tests for the parameters applicable to the service and specified in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade Service to test other parameters, as described in Paragraph 13.3.5, B., following, is available at the customer's request. All test results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order Provisions set forth in Section 5, preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).



OCT 16 1987 Public Service Commission

FILED

Issued: OCT 1 4 1987

Effective: OCT 1 6 1987

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

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

- 7.1 General-(Continued)
- 7.1.7 Accepting Testing-(Continued)
- A. For Voice Grade analog services, acceptance tests will include tests for loss, three-tone slope, DC continuity, operational signaling, C-notched noise and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade Services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
- B. For other analog services and for digital service, acceptance tests will include tests for the parameters applicable to the service and specified in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade Service to test other parameters, as described in Paragraph 13.3.5, B., following, is available at the customer's request. All test results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order Provisions set forth in Section 5, preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

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Access Services Tariff

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Access Services Tariff Section 7 Original Sheet 11 OENVED

#### 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
  - A. Narrowband Services
    - Narrowband 1 (NB1) Special Access Service 1.
      - a. Description

Special Access Service NBI provides a channel for a balanced metallic pair between an IC terminal location and an End User's premises. Service will be provided only where appropriate metallic facilities are available. Signal transfer rates up to 30 baud will be accommodated.

b. Illustrative Applications

Special Access Service NB1 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Protective Alarm (Direct Wire)
- Wire Pair Facility
- c. Optional Features
  - Bridging: provision of tip-to-tip and ring-to-ring connection in a central office of a metallic paired a second End User's location.
  - Customers requiring a Four-Wi NB1 services. Betallic facility must buy two
- d. Transmission Performance



the conductors in each customer pair or the resistance between individual serving pair conductors and ground is observed to be less than 30,000 ohms.



Issued:

DEC 2 9 1983

JAN 0 1 1984 Effective:

Access Services Tariff Section 7 6th Revised Sheet 12 Replacing 5th Revised Sheet 12

#### ACCESS SERVICES

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

#### 7.2 Service Descriptions

(CT) For the purposes of ordering, there are eight categories of Special Access Service. These are:

Metallic (MT) Telegraph Grade (TG) Voice Grade (VG) Wideband Analog (WA) Wideband Data (WD) MegaLink Data (DA) High Capacity (HC) DovLink (DOV)

(RT)

Each service consists of a basic channel to which a technical specifications package (customized or pre-defined), channel interface(s) and, when desired, optional features, BSEs and functions are added to construct the service desired by the customer. Each of the components of the service are described in this section.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order.

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or between a customer designated premises and a Telephone Company Hub where bridging or multiplexing functions are performed.

Issued: January 10, 1997



For the purposes of ordering, there are nine categories of Special

ACCESS SERVICES

Access Services Tariff Section 7 5th Revised Sheet 12 Replacing 4th Revised Sheet 12 Second 150

7. SPECIAL ACCESS SERVICE-(Continued)

Access Service. These are:

7.2 Service Descriptions

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except for the purpose of canceling this tariff.

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FEB 9 1993

(CT)

Metallic (MT) Telegraph Grade (TG) Voice Grade (VG) Wideband Analog (WA) Wideband Data (WD) MegaLink Data (DA) High Capacity (HC) DovLink (DOV) Business Video (BVS)

Each service consists of a basic channel to which a technical specifications package (customized or pre-defined), channel interface(s) and, when desired, optional features, BSEs and functions are added to construct the service desired by the customer. Each of the components of the service are described in this section.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order.

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or between a customer designated premises and a Telephone Company Hub where bridging or multiplexing functions are performed.

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Issued: FEB 0 9 1993

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

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ACCESS SERVICES

Access Services Tariff Section 7 4th Revised Sheet 12 Replacing 3rd Revised Sheet 12 **RECEIVED** 

MAR 29 1993

SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions

MISSOURI Public Service Commission

For the purposes of ordering, there are eight categories of Special Access Service. These are:

Metallic (MT) Telegraph Grade (TG) Voice Grade (VG) Wideband Analog (WA) Wideband Data (WD) MegaLink Data (DA) High Capacity (HC) DovLink (DOV)

CANCELLED APR 19 1993 # R.S#,2/ BY 5 Public Service Commission

Each service consists of a basic channel to which a technical specifications package (customized or pre-defined), channel interface(s) and, when desired, optional features, BSEs and functions are added to construct the service desired by the customer. Each of the components of the service are described in this section.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order.

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or between a customer designated premises and a Telephone Company Hub where bridging or multiplexing functions are performed.

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



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Issued: MAR 2 6 1993

Effective:

APR 1 1 1993

No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose 3rd Revised Sheet 12 of canceling this tariff. Replacing 2nd Revised Sheet 12 ACCESS SERVICES , **.** ... and the second 7. SPECIAL ACCESS SERVICE-(Continued) 7.2 Service Descriptions (CT) For the purposes of ordering, there are eight categories of Special Access Service. These are: Metallic (MT) CANCELLED Telegraph Grade (TG) Voice Grade (VG) Wideband Analog (WA) APR 11 1993 Wideband Data (WD) BY 4 th R. S. # 12 MegaLink Data (DA) **Public Service Commission** High Capacity (HC) (AT) DovLink (DOV) MISSOURI Each service consists of a basic channel to which a technical specifications package (customized or pre-defined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Each of the components of the service are described in this section. Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order. When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order. The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer-designated premises or between a customer-designated premises and a Telephone Company Hub where bridging or multiplexing functions are performed. 1 . . . . . 010 41292 a a transformation and the second DEC - 4 1992 Issued: OCT - 5 1992 Effective: NOV By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company St. Louis, Missouri

No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose 2nd Revised Sheet 12 Replacing 1st Revised Sheet 12 of canceling this tariff. RECEIVED ACCESS SERVICES 7. SPECIAL ACCESS SERVICE-(Continued) SEP 2 5 1989 7.2 Service Descriptions NUESOUR! For the purposes of ordering, there are seven categories of Special Commission (CT) Access Service. These are: Metallic (MT) CANCELLED Telegraph Grade (TG) Voice Grade (VG) (RT) 4 .1992 DEC Wideband Analog (WA) BY 3 MAR Wideband Data (WD) (CT) MegaLink Data (DA) Public Service Commission High Capacity (HC) MISSOURI Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Each of the components of the service are described in this section. Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order. When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order. The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or between a customer designated premises and a Telephone Company Hub where bridging or multiplexing functions are performed. FLED 001 1 1983 1989 8 9 - 14 OCT 1 Effective: SEP 2 5 1989 [ssued: Public Service Commission

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



For the purposes of ordering, there are nine categories. Service Commission Access Service. These are:

> Metallic (MT) Telegraph Grade (TG) Voice Grade (VG) Program Audio (AP) Wideband Analog (WA) Wideband Data (WD) Digital Data (DA) High Capacity (HC)

CANCELLED OCT 1 1989 BVZMBRS. HIZ Public Service Commission MISSOUH

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Each of the components of the service are described in this section.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order.

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or between a customer designated premises and a Telephone Company Hub where bridging or multiplexing functions are performed.

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JUN 27 1986

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# Access Services Tariff Original Sheet 12 DEC 2017

#### 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)
  - A. Narrowband Services-(Continued)
    - 1. Narrowband 1 (NB1) Special Access Service-(Continued)
      - e. Available Facility Interface Combinations

<u> </u>	End User
2DC8-3	2DC8-3

- 2. Narrowband 2 (NB2) Special Access Service
  - a. Description

Special Access Service NB2 provides a channel for simplex lowfrequency, narrowband electrical transmission which may be provided to a number of End User's premises (up to a maximum of 25) to form a series of electrical paths from the IC terminal location to each End User's premises. The electrical path is capable of transporting the three-level signal used in the McCulloh signaling system at speeds up to 15 bps.

Service will be provided only where appropriate metallic or other facilities are available.

b. Illustration Application

Special Access Service NB2 is suitable for use as part of the facilities required for provide intrastate telecommunications services such as the service such as the service service such as the service service such as the service s

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Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

Access Services Tariff Section 7 4th Revised Sheet 13 Replacing 3rd Revised Sheet 13

#### ACCESS SERVICES

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

7.2 Service Descriptions-(Continued)

Information pertaining to the technical specification package indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Special Access Service. The letter "C" following the two letter code indicates the technical specification package for a customized service. An alphanumeric or alpha –numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameter available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

Channel interfaces at each point of termination on a two-point service may be symetrical or asymetrical . On a multipoint service can only be provided between points of termination with compatible channel interfaces. Only certain channel interfaces are compatible.

Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth at the end of this Paragraph 7.2. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

(AT) The optional features, BSEs and functions available with each type of Special Access Service
 (AT) are described in this section. The optional features, BSEs and functions information also indicates with which technical specifications packages they are available. Such information is displayed in a

(AT) matrix with the optional features, BSE or function listed down the left side and the technical specifications package listed across the top.

Issued: March 26, 1993



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

Access Services Tariff Section 7 3rd Revised Sheet 13 Replacing 2nd Revised Sheet 13 RECEIVED

#### ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

Public Service Commission Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Special Access Service. The letter "C" following the two letter code indicates the technical specifications package for a customized service. An alpha-numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

Channel interfaces at each point of termination on a two-point service may be symetrical or asymetrical. On a multipoint service they may also be symetrical or asymetrical. However, communications can only be provided between points of termination with compatible channel interfaces. Only certain channel interfaces are compatible.

Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth at the end of this Paragraph 7.2. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in a matrix with the optional feature or function listed down the left side and the technical specifications package listed across the techni

Issued: SEP 2 5 1989

1983 1 1989 Effective: By R. D. BARRON, President-Missouri DivisionService Commission Southwestern Roll Tolonton Commission Southwestern Bell Telephone Company St. Louis, Missouri

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Access Services Tariff Section 7 2nd Revised Sheet 13 Replacing 1st Revised Sheet 13 RECEIVED

#### ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued) 7.

7.2 Service Descriptions-(Continued)

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Public Service Commission

Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Special Access Service. The letter "C" following the two letter code indicates the technical specifications package for a customized service. An alpha-numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

Channel interfaces at each point of termination on a two-point service may be symetrical or asymetrical. On a multipoint service they may also be symetrical or asymetrical. However, communications can only be provided between points of termination with compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in Paragraph 7.3.5, following, in a combination format.

Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth at the end of this Paragraph 7.2. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in a matrix with the optional feature or function listed down the left side and the

technical specifications package listed across the top. FILED OCT 16 1987 Public Service Commusion 70-87=42 Public Service Commission MISCOLINI Issued: OCT 1 4 1987 OCT 16 1987 **Effective:** By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

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

(CP)ACCESS SERVICES

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

7.2 Service Descriptions+(Continued)

Information pertaining to the technical specifications, rectage indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Special Access Service. The letter "C" following the two letter code indicates the technical specifications package for a customized service. A numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

Channel interfaces at each point of termination on a two-point service may be symetrical or asymetrical. On a multipoint service they may also be symetrical or asymetrical. However, communications can only be pro-ED vided between points of termination with compatible channel CALAGEES. Only certain channel interfaces are compatible. These are set forth in Paragraph 7.3.5, following, in a combination format. OCT 16 1987

Only certain channel interface combinations are available wEW244275.5.413 defined technical specifications packages. These are delineated/im thermmission Technical References set forth at the end of this Paragraph 7.245 MemFel customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in a matrix with the optional feature or function listed down the left side and the technical specifications package listed across the top.

Issued:

JUN 27 1986

Effective: JUL

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Access Services Tariff

Replacing Original Sheet 13

JUN 27 1986

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1st Revised Sheet 13

Section 7

Access Services Tariff Section 7 Original Sheet 13

#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

DEC 2.0 1003

- 7.2 Technical Service Descriptions for Special Access Service-(Continued) Public Service Commission
- 7.2.1 Analog Services-(Continued)
- A. Narrowband Services-(Continued)
  - 2. Narrowband 2 (NB2) Special Access Service-(Continued)
    - c. Optional Feature

- Series Bridging: up to 25 End User's premises.

- d. Transmission Performance
  - Leakage

Remedial action will be initiated when the dc resistance between the conductors in each serving pair and the resistance between individual serving pair conductors and ground and observed to be less than 30,000 ohms.

e. Available Facility Interface Combinations

IC	End User	<u> </u>	End User
2000 0	0000 1	(100 0 (0)	CD 00 1
2DC8-2	2DC8-1	4AH5-B(2)	2DC8-1
2DC8-1	2DC8-2	4AH5-B(2)	2DC8-2
4DS9-(1)	2DC8-1	4AH6-C(2)	2DC8-2
4DS9-(1)	2DC8-2	4AH6-D(2)	2DC8-1
4AH6-D(2)	2DC8-2	4AH6-C(2)	2DC8-1
	(	📾 1 1 G Mi	

3. Narrowband 3 (NB3) NISPEE 11 AcEast Service Reserved For Future Use

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「戸田正園」」 JAN - 1 1981) Public Service Community

- (1) See Paragraph 7.3.3, following, for explanation.
- (2) Available only to IC's selecting the multiplexed four-wire High Capacity analog facility interface option at the IC terminal location and providing subsequent system and channel assignment data.

Issued: **DEC** 2 9 1983

Effective: JAN 0 1 1984

Access Services Tariff Section 7 8th Revised Sheet 14 Replacing 7th Revised Sheet 14

#### ACCESS SERVICES

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

#### 7.2 Service Descriptions-(Continued)

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this Tariff, except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this Tariff. All services installed after the effective date of this Tariff will conform to the transmission specification standards contained in this Tariff or in the following Technical References for each category of service:

Metallic	TR-NPL-0	00336
Telegraph Grade	TR-NPL-0	00336
Voice Grade	TR-TSY-0	00335
Wideband Analog	TR-NPL-0	00339
Wideband Data	TR-NPL-0	00340
MegaLink Data	TR-NPL-0	00341
	PUB	62310
High Capacity	PUB	76625
	PUB	62411
	TR-INS-00	00342
DovLink	TP-76620	

Issued: January 10, 1997

February 10, 1997

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



(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 14 Replacing 6th Revised Sheet 14 DEGINED

#### ACCESS SERVICES

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

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7.2 Service Descriptions-(Continued)

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The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this Tariff, except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this Tariff. All services installed after the effective date of this Tariff will conform to the transmission specification standards contained in this Tariff or in the following Technical References for each category of service:

Metallic Telegraph Grade Voice Grade Wideband Analog Wideband Data MegaLink Data

High Capacity

DovLink **Business Video** 

(AT)

TR-NPL-000336 TR-NPL-000336 TR-TSY-000335 TR-NPL-000339 TR-NPL-000340 TR-NPL-000341 PUB 62310 PUB 76625 PUB 62411 TR-INS-000342 TP-76620 TP-76644

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Issued: FEB 0 9 1993

Effective:

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

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 6th Revised Sheet 14 Replacing 5th Revised Sheet 14

#### ACCESS SERVICES

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

7.2 Service Descriptions-(Continued)

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this Tariff, except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this Tariff. All services installed after the effective date of this Tariff will conform to the transmission specification standards contained in this Tariff or in the following Technical References for each category of service:

Metallic Telegraph Grade Voice Grade Wideband Analog Wideband Data MegaLink Data

High Capacity

DovLink

TR-NPL-000336 TR-NPL-000336 TR-TSY-000335 TR-NPL-000340 TR-NPL-000341 PUB 62310 PUB 76625 PUB 62411 TR-INS-000342 TP-76620

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

Access Services Tariff Section 7 5th Revised Sheet 14 Replacing 4th Revised Sheet 14

#### ACCESS SERVICES

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7.2 Service Descriptions-(Continued)

SPECIAL ACCESS SERVICE-(Continued)

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The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this Tariff, except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this Tariff. All services installed after the effective date of this Tariff will conform to the transmission specification standards contained in this Tariff or in the following Technical References for each category of service:

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Metallic Telegraph Grade Voice Grade Wideband Analog Wideband Data MegaLink Data High Capacity

TR-NPL-000336 TR-NPL-000336 TR-TSY-000335 TR-NPL-000339 TR-NPL-000340 TR-NPL-000341 PUB 62310 PUB 76625 PUB 62411 TR-INS-000342

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#### ACCESS SERVICES

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

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7.2 Service Descriptions-(Continued)

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The Telephone Company will maintain existing transmission specifications is a compare with a standard listed prior to the effective date of this Tariff, except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this Tariff. All services installed after the effective date of this Tariff will conform to the transmission specification standards contained in this tariff or in the following Technical References for each category of service:

PUB	62502
PUB	62502
NPL	000334 (WALs)
NPL	000335 and associated Addendum
PUB	41004, Table 4
PUB	62505 and associated Addendum
PUB	62506
PUB	62507 and associated Addendum
PUB	62310
PUB	62508
PUB	62411
	PUB NPL PUB PUB PUB PUB PUB

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Public Service Commission MISSOURI

Issued: FEB 2 2 1990

Effective: MAR 2 6 1990

FILED

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

Public Service Commission

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

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Access Services Tariff Section 7 3rd Revised Sheet 14 Replacing 2nd Revised Sheet 14

#### ACCESS SERVICES

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7.2 Service Descriptions-(Continued)

SPECIAL ACCESS SERVICE-(Continued)

The Telephone Company will maintain existing transmission specificationsnission on services installed prior to the effective date of this Tariff, except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this Tariff. All services installed after the effective date of this Tariff will conform to the transmission specification standards contained in this tariff or in the following Technical References for each category of service:

	Metallic	PUB	62502
	Telegraph Grade	PUB	62502
	Voice Grade	PUB	62500 (WALs)
		PUB	62501 and associated Addendum
		PUB	41004, Table 4
(RT)			
	Wideband Analog	PUB	62505 and associated Addendum
	Wideband Data	PUB	62506
(CT)	MegaLink Data	PUB	62507 and associated Addendum
		PUB	62310
	High Capacity	PUB	62508
		PUB	62411



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Replacing	1st	Revised	Sheet	14
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#### ACCESS SERVICES

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## 7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

MISSOURI Public Service Commission

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this Tariff, except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this Tariff. All services installed after the effective date of this Tariff will conform to the transmission specification standards contained in this tariff or in the following Technical References for each category of service:

PIIR 62502

necalle	E UD	02302
Telegraph Grade	PUB	62502
Voice Grade	PUB	62500 (WALs)
	PUB	62501 and associated Addendum
	PUB	41004, Table 4
Program Audio	PUB	62503 and associated Addendum
Wideband Analog	PUB	62505 and associated Addendum
Wideband Data	PUB	62506
Digital Data	PUB	62507 and associated Addendum
	PUB	62310
High Capacity	PUB	62508
	PUB	62411

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OCT 16 1987 TO-87-42 Public Service Commissior

Issued: OCT 1 4 1987

Effective: OCT 16 1987

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 1st Revised Sheet 14 Replacing-Original-Sheet-14

JUN 27 1986

#### (CP)ACCESS SERVICES

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

7.2 Service Descriptions-(Continued)

The Telephone Company will maintain existing transmission pecifications signature on services installed prior to the effective date of this Tarffit exception that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this Tariff. All services installed after the effective date of this Tariff will conform to the transmission specification standards contained in this tariff or in the following Technical References for each category of service:

Metallic	PUB 62502
Telegraph Grade	PUB 62502
Voice Grade	PUB 62501 and associated Addendum
	PUB 41004, Table 4
Program Audio	PUB 62503 and associated Addendum
Wideband Analog	PUB 62505 and associated Addendum
Wideband Data	PUB 62506
Digital Data	PUB 62507 and associated Addendum
-	PUB 62310
High Capacity	PUB 62508
	PUB 62411

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OCT 16 1987 BY 2Nd RS #14 Public Service Commission MISSOURI



Issued:

JUN 27 1986

Effective: JUL 1

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

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. SPECIAL ACCESS SERVICE-(Continued)	DEC 29 1883
7.2 Technical Service Descriptions for Special Access	s Service-(Continued)

Public Service Commission

- 7. SPECIAL ACCESS SERVICE-(Continued)
  - 7.2.1 Analog Services-(Continued)
  - A. Narrowband Services-(Continued)
    - 4. Narrowband 4 (NB4) Special Access Service
      - a. Description

Special Access Service NB4 provides a channel for transmission of asynchronous transitions between two current levels at rates up to 75 baud between an IC terminal location and an End User's premises. This service is furnished for half-duplex or duplex operation on a two-point or multipoint configuration. Neither direct current continuity of this service nor the capability to transport continuously varying alternating current is assured.

b. Illustrative Applications

Special Access Service NB4 is suitable for use as part of the facilities required to provide intrastate telecommunications service such as:

- Telegraph Grade Facilities
- Entrance Facility Telegraph Grade
- Extension Service Telegraph Grade
- Teletypewriter Service
- Alarm Circuits
- Control/Remote Metering Telegraph Grade

c. Optional Feature

- Central office bridging capability.
- d. Transmission Performance JUL 1 1986
  - PUBLIC SERVICE COMMISSION - Telegraph Distortion

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Remedial action will be influed whenever the telegraph distortion is observed to exceed 9 percent.

Issued: **DEC** 2 9 1983

Effective: JAN 0 1 1984

#### (CP)ACCESS SERVICES

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

- 7.2 Service Descriptions-(Continued)
- 7.2.1 Metallic Service
- A. Basic Channel Description

A metallic channel is an unconditioned two-wire channel capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub were bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

B. Technical Specifications Packages

	Pacl	kage l	MT-	
Parameter	<u>C</u>	<u>1</u>	2	<u>3</u>
DC Resistance Between Conductors	X	X	X	
Loop Resistance	Х			Х
Shunt Capacitance	Х			Х

The technical specifications are delineated in Technical Reference PUB 62502.

Issued: June 27, 1986



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

Access Services Tariff Section 7 lst Revised Sheet 15 Replacing Original Sheet US

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**Public Service Commission** 

#### ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service-(Continued) EIISSOURI
- 7.2.1 Analog Services-(Continued)
- Α. Narrowband Services-(Continued)
  - 4. Narrowband 4 (NB4) Special Access Service-(Continued)

e. Available Facility Interface Combinations

	End User		End User
2TT2-2	2TT2-2	4DS9-(2)	2TT2-2
2TT2-3	2TT2-2	$4DS^{9}-(2)$	4TT2-2
2DB 2-10	2TT2-2	4DS9-(2)	2TT2-6
2DB2-43(1)	2TT2-2	4DS9-(2)	4TT2-6
4DB 2-10	2TT2-2	4AH5-B(3)	2TT2-2
4DB2-43(1)	2TT2-2	4AH5-B(3)	4TT2-2
2TT2-3	4TT2-2	4AH5-B(3)	2TT2-6
2DB2-10	4TT2-2	4AH5-B(3)	4TT2-6
2DB2-43(1)	4TT2-2	4AH6-C(3)	2TT2-2
4TT2~2	4TT2-2	4AH6-C(3)	4TT2-2
4DB2~10	4TT2-2	4AH6-C(3)	2TT2-6
4DB2-43(1)	4TT2-2	4AH6-C(3)	4TT2-6
- \-/		4AH6-D(3)	2TT2-2
2DB2-43(1)	4TT2-6	4AH6-D(3)	4TT2-2
		4AH6-D(3)	2TT2-6
4DB2 - 43(1)	<b>2</b> TT2-6	4AH6-D(3)	4TT2-6
2DB2-43(1)	2TT2-6		

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5. Narrowband 5 (NB5) Special Access Service

2TT2-6 2TT2-6

2TT2-6

2TT2-6

2TT2-6

Description a.

4TT2-6

2TT2-6

2DB 2-10

4DB 2-10

4DB2 - 43(1)

PUBLIC SERVICE COMMISSION OF MISSOURI Special Access Service NB5 provides a channel for transmission of asynchronous transitions between two current levels at rates up to 150 baud between an IC terminal location and an End User's premises. This service is furnished for half-duplex or duplex operation on a two-point or multipoint configuration. Neither

(1) Supplemental Channel Assignment information required. (2) See Paragraph 7.3.3, following, for explanation. (3) Available only to IC's selecting the multiplexed four-wire High! analog facility interface option of the IC terminal location subsequent system and channel assignment data. Effective: OCT 1 5188blic Service Commission A.6 1 5 Ebr Issued: 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. Access Services Tariff Section 7 Original Sheet 15 negenven

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Public Service Commission

#### ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- DEC 2 9 1003 7.2 Technical Service Descriptions for Special Access Service-(Continued)
  - 7.2.1 Analog Services-(Continued)
  - A. Narrowband Services-(Continued)
    - 4. Narrowband 4 (NB4) Special Access Service-(Continued)
      - e. Available Facility Interface Combinations

IC	End User	IC	<u>End User</u>
2TT2-2	2TT2-2	4DS9-(2)	2TT2-2
2TT2-3	2TT2-2	4DS9-(2)	4TT2-2
2DB2-10	2TT2-2	4DS9-(2)	2TT2-6
2DB2-43(1)	2TT2-2	4DS9-(2)	4TT2-6
4DB2-10	2TT2-2	4AH5-B(3)	2TT2-2
2DB2-43(1)	2TT2-2	4AH5-B(3)	4TT2-2
2TT2-3	4TT2-2	4AH5-B(3)	2TT2-6
2DB2-10	4TT2-2	4AH5-B(3)	4TT2-6
2DB2-43(1)	4TT2-2	4AH6-C(3)	2TT2-2
4TT2-2	4TT2-2	4AH6-C(3)	4TT2-2
4DB2-10	4TT2-2	4AH6-C(3)	2TT2-6
4DB2-43(1)	4TT2-2	4AH6-C(3)	4TT2-6
2TT2-6	4TT2-2	4AH6-D(3)	2TT2-2
2DB2-43(1)	4TT2-2	4AH6-D(3)	4TT2-2
2DB2-10	4TT2-2	4AH6-D(3)	2TT2-6
4DB2-43(1)	2 <b>TT2-6</b>	4AH6-D(3)	4TT2=61
2DB2-43(1)	2TT2-6	- 01 @	BILLEU.
4TT2-6	2TT2-6	<u>En nin</u>	
4DB2-43(1)	2TT2-6	Olyno -	
		1.30	1 5 1984
wband 5 (NBS)	Special Acces	s Service	N IE

5. Narrowband 5 (NB5) Special Access Service

a. Description

Special Access Service NB5 provides a changelC For meansitions between the applic For meansitions of asynchronous transitions between two current levels at rates up to 150 baud between an IC terminal location and an End User's premises. This service is furnished for half-duplex, biduplex operation on a two-point or multipoint configuration. Neither JAN - 1 1934

- (1) Supplemental Channel Assignment information required.
- (3) Available only to IC's selecting the multiplexed four-wire High Capacity analog facility interface option of the IC terminal location and providing subsequent system and channel assignment data.

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

#### ACCESS SERVICES

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

- 7.2 Service Descriptions-(Continued)
- 7.2.1 Metallic Service-(Continued)
  - C. Channel Interfaces

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

- D. Optional Features, BSEs and Functions
  - 1. Central Office Bridging BSE Capability
    - a. Three Premises Bridging Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer designated premises.
    - b. Series Bridging of up to 26 customer designated premises.

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

Available with Technical Specifications Package MT-

	<u>C</u>	<u>1</u>	2	<u>3</u>	
Three Premises Bridging	Х	Х		Х	
Series Bridging	Х		Х		

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Issued: March 26, 1993



No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose 2nd Revised Sheet 16 of canceling this tariff Replacing 1st Revised Sheet 16 ACCESS SERVICES RECEIVED 7. SPECIAL ACCESS SERVICE-(Continued) SEP 2 5 1989 7.2 Service Descriptions-(Continued) MESOURI 7.2.1 Metallic Service-(Continued) Public Service Commission C. Channel Interfaces (CT)Compatible channel interfaces are set forth in Technical References at the (CT) end of Paragraph 7.2. Ð. Optional Features and Functions 1. Central Office Bridging Capability Three Premises Bridging - Provision of tip-to-tip and ringa. to-ring connection in a central office of a metallic pair to a third customer designated premises. b. Series Bridging of up to 26 customer designated premises. The following table shows the technical specifications packages with which the optional features and functions are available. Available with Technical Specifications Package MT-2 С 1 3 Three Premises Bridging Х X Х Series Bridging X X CANCELLED APR 11 1993 #,6 BY 3rd R.S. Public Service Commission MISSOURI

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OCT 1 1989

Issued: SEP 2 5 1989

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

Effective:

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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)
- 7.2 Service Descriptions-(Continued)
- 7.2.1 Metallic Service-(Continued)
- C. Channel Interfaces

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

- D. Optional Features and Functions
  - 1. Central Office Bridging Capability
    - a. Three Premises Bridging Provision of tip-to-tip and ringto-ring connection in a central office of a metallic pair to a third customer designated premises.
    - b. Series Bridging of up to 26 customer designated premises.

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

	Available with Technical Specifications Package MT-			
	<u>_C</u>	1	2	_3_
Three Premises Bridging	Х	Х		Х
Series Bridging	Х		х	

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Effective: JUL 1

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Access Services Tariff Section 7 Original Sheet 16

#### 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)
- A. Narrowband Services-(Continued)
  - 5. Narrowband 5 (NB5) Special Access Service-(Continued)
    - a. Description-(Continued)

direct current continuity of this service nor the capability to transport continuously varying alternating currents is assured.

b. Illustrative Applications

Special Access Service NB5 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Extension Service Telegraph Grade
- Teletypewriter Service
- Alarm Circuits
- Control/Remote Metering Telegraph Grade
- c. Optional Feature
  - Central office bridging capability.
- d. Transmission Performance

- Telegraph Distortión

Remedial action will be initiated whenever the telegraph distortion is observed to exceed 12 percent.

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Issued: DEC 2 9 1983

Effective: JAN () 1 1984

Access Services Tariff Section 7 3rd Revised Sheet 17 Replacing 2nd Revised Sheet 17

#### ACCESS SERVICES

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

- 7.2 Service Descriptions-(Continued)
- 7.2.2 Telegraph Grade Service
  - A. Basic Channel Description

A telegraph grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation.

Telegraph grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

**B.** Technical Specifications Packages

	Package TG-			
Parameter	<u>C</u>	<u>1</u>	<u>2</u>	
Telegraph Distortion	Х	Х	Х	

The technical specifications are delineated in Technical Reference PUB 62502.

C. Channel Interfaces

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

- (AT) D. Optional Features, BSEs and Functions
  - 1. Telegraph Bridging BSE (two-wire and four-wire)

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

Available with Technical Specifications Package TG-

	Telegraph Bridging	$\frac{C}{X}  \frac{1}{X}  \frac{2}{X}$
Issued:	March 26, 1993	Effective: April 11, 1993
	By A. D. ROBERTS	ON. Assistant Vice President-External Affairs





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No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose 2nd Revised Sheet 17 Replacing 1st Revised Sheet 17 of canceling this tariff. ACCESS SERVICES RECEVED 7. SPECIAL ACCESS SERVICE-(Continued) SEP 2 5 1989 7.2 Service Descriptions-(Continued) 1.12STUR 7.2.2 Telegraph Grade Service Public Service Commission A. Basic Channel Description A telegraph grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub. B. Technical Specifications Packages CANCELLED APR 11 1993 Package TG-BY 3nd R. 5#17 С Parameter 1 Public Service Commission X X Telegraph Distortion MISSOURI Х The technical specifications are delineated in Technical Reference PUB 62502. C. Channel Interfaces (CT) Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2. D. Optional Features and Functions 1. Telegraph Bridging (two-wire and four-wire) The following table shows the technical specifications packages with which the optional features and functions are available. Available with Technical Specifications Package TG-С 1 2 Telegraph Bridging Х X Х FILED SEP 2 5 1989 OCT 1 1989 Effective: DCT 1 Issued: 1989 8 9 - 1 4 By R. D. BARRON, President-Missouri Division Service Commission Southwestern Bell Telephone Company St. Louis, Missouri

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

#### (CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
  - 7.2 Service Descriptions-(Continued)
  - 7.2.2 Telegraph Grade Service
  - A. Basic Channel Description

A telegraph grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation.

Telegraph grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

B. Technical Specifications Packages

	Package TG-			
Parameter	<u> </u>	1	_2	
Telegraph Distortion	Х	Х	X	

The technical specifications are delineated in Technical Reference PUB 62502.

C. Channel Interfaces

Compatible channel interfaces are set forth in Paragraph 7.3.3. LEP, following. following.

- D. Optional Features and Functions
  - 1. Telegraph Bridging (two-wire and four-wire)

Public Sorvice Commission The following table shows the technical specifications packages with which the article of the strength of the with which the optional features and functions are available.

	Available with Technical Specifications Package TG-11 (20)		
Telegraph Bridging	<u> </u>	_1X	2 x HUL 1 1986 86-84 Fuelic Service Commiss

Issued:

JUN 27 1986

Effective: JUL

1 1986

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

Access Services Tariff Section 7 1st Revised Sheet 17 Replacing Original-Sheet-17 RECE JUN 27 1986 WI2200KI Public Service Commission
Access Services Tariff Section 7 Original Sheet 17

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Public Service Commission

#### ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued)

- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
- 7.2.1 Analog Services-(Continued)
- A. Narrowband Services-(Continued)
  - 5. Narrowband 5 (NB5) Special Access Service-(Continued)

e. Available Facility Interface Combinations

IC	<u>End User</u>	IC	End User
2DB2-10	-10IA2 -	4DS9-(2)	10IA2
4DB2-10	10IA2	4AH5-B(3)	10IA2
2DB2-43(1)	10IA2	4AH6-C(3)	10IA2
4DB2-43(1)	10IA2	4AH6-D(3)	10IA2

B. Voice Grade Services

There are nine types of Voice Grade Service, each having a different transmission performance. The transmission performances determine the applications that the various types of Voice Grade Service can be used for. VG1 through VG3 services are intended for voice applications only. VG5 through VG10 are suitable for voiceband data or voice/data applications. The VG 1-3 and 5-10 are provided primarily as end-link designs for interexchange carriers and Private Line Services.

- 1. Voice Grade 1 (VG1) Special Access Service
  - a. Description

Special Access Service VGl provides a channel for voice frequency transmission capability. Usable frequencies are nominally 300 to 3060 Hz between an IC terminal location

JUL 1 1986 上上区回 Rhas.1 JAN - 1 1984 (1) Supplemental channel assagement of the second Solo required.
 (2) See Paragraph 7.3.3, folPublic Service planation.
 (3) Available columns of the second seco - 8.3 - 253 (3) Available only to IC's selecting the four-wire multiplexed High Capacity SIOn analog facility interface option at the IC terminal location and pro-

viding subsequent system and channel assignment data.

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

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

Access Services Tariff Section 7 2nd Revised Sheet 18 Replacing 1st Revised Sheet 18

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

### 7.2 Service Descriptions-(Continued)

- 7.2.3 Voice Grade Service
- A. Basic Channel Description

A voice grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company Hub, or between a customer designated premises and the WATS serving office.

### B. Technical Specifications Packages

		Package VG-	
(AT)	Parameter	<u>C(1) 1 2 3 4 5 6 7 8 9 10 11 12 W*</u>	
	Attenuation		
	Distortion	X X X X X X X X X X X X X X X	
	C-Message Noise	X X X X X X X X X X X X X X	
Í	Echo Control	X X X X X X X X X X X+	
Í	Envelope Delay		
İ	Distortion	X X X X X X X X X	
İ	Frequency Shift	X X X X X X X X X	
i	Impulse Noise	X X X X X X X X X	
i	Intermodulation		
i	Distortion	X X X X X X X X	
İ	Loss Deviation	X X X X X X X X X X X X X X	
i	Phase Hits, Gain		
Í	Hits, and		
i	Dropouts	Х	
İ	Phase Jitter	X X X X X X X X	
İ	Signal-to-C		
i	Message Noise	Х	
Ì	Signal-to-C		
(AT)	Notch Noise	X X X X X X X X X X	

(AT) \* Denotes WATS Access Lines (WALs)

(AT) + When WAL extensions are provided, Echo Control limits are not applicable.

(1) The desired parameters are selected by the customer from the list of available parameters.

Issued: October 14, 1987

Effective: October 16, 1987 By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri



No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 1st Revised Sheet 18 Replacing Original Sheet 18

(CP)ACCESS SERVICES

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

7.2.3 Voice Grade Service

A. Basic Channel Description

A voice grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

B. Technical Specifications Packages

	Package VG-												
Parameter	<u>C(1)</u>	1	2	<u>3</u>	4	<u>5</u>	<u>6</u>	<u>7</u>	8	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
Attenuation													
Distortion	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
C-Message Noise	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Echo Control	Х	Х	Х	Х		Х		Х	Х			Х	Х
Envelope Delay													
Distortion	Х						Х	Х	Х	Х	Х	Х	Х
Frequency Shift	Х						X	Х	Х	Х	Х	Х	Х
Impulse Noise	Х					Х	Х	Х	X.	X	X	Х	Х
Intermodulation							<b>•</b>	ANC	)EL	121			
Dístortion	Х						- X'	ΓX Γ	X	Х	Х	Х	
Loss Deviation	Х	Х	Х	Х	Х	Х	Χr	)Ch	18	1987	Х	Х	Х
Phase Hits, Gain Hits, and								<u></u>	ĪŽ	2 5	<u></u> #18		
Dropouts	Х						D	سنعا د مسلم	ina (	Com	missi	п	
Phase Jitter Signal-to-C	Х					Pul	oli⊋ ¦	SQTV ML	<u>sso</u>	UÄI	missi X	X	
Message Noise Signal-to-C					х					FN	12	D	
Notch Noise	X					X	х	X	X,	x IUL	x 1 19	x 186	X
								ln.	品はみ		- 84		
									DIIC	9511	CC 60	mmiss	.ion i

 The desired parameters are selected by the customer from the list of available parameters.

Issued:

JUN 27 1986

Effective: JUL

1 1986

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



Access Services Tariff

DEC 20 1203

Original Sheet 18

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) Public Service Commission
    - 7.2.1 Analog Services-(Continued)
    - Voice Grade Services-(Continued) Β.
      - 1. Voice Grade 1 (VG1) Special Access Service-(Continued)
        - a. Description-(Continued)

and End User's premises. The transmission interface can be either two-wire or four-wire at both the IC terminal location and the End User's premises. Various interface options are available. This service will support effective two-wire or effective four-wire transmission.

b. Illustrative Applications

Special Access Service VG1 is suitable for use as part of the facilities used to provide intrastate telecommunications services such as:

- Voice Grade Facility
- Alarm Circuits

c. Optional Feature

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

GANGELLED JUL 1 1986 Fillew PUBLIC SERVICE COMMISSION OF MISSOURI

Issued: DEC 2 9 1983

Effective: JAN () 1 1984

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

Access Services Tariff Section 7 6th Revised Sheet 19 Replacing 5th Revised Sheet 19

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

- 7.2 Service Descriptions-(Continued)
  - 7.2.3 Voice Grade Service-(Continued)
  - B. Technical Specifications Packages-(Continued)

The technical specifications for these parameters are delineated in Technical References set forth at the end of Paragraph 7.2.

C. Channel Interfaces

The following channel interfaces for Voice Grade Service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade Service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF (1).

Combination of channel interfaces DS, GS, and LS for WALs require signaling as defined in Section 6.2.5.

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

D. Analog Service to Service Through Connect Arrangement

Multiplexed Arrangement

This provides for the interconnection of two subtending analog channels derived from DS1 multiplexed services. The through connect will be provisioned in lieu of a typical voice grade channel termination. The ordering customer must provide channel assignments for both. Voice Grade channel mileage is required if the multiplexed services are terminated in two separate Hubs.

(1) This feature is obsolete, and limited to existing installations at existing locations for existing customers as of October 6, 1995.



Effective: October 6, 1995

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



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ACCESS SERVICES

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

MISSOURI Public Service Commission

B. Technical Specifications Packages-(Continued)

The technical specifications for these parameters are delineated in Technical References set forth at the end of Paragraph 7.2.

C. Channel Interfaces

The following channel interfaces for Voice Grade Service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade Service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

Combination of channel interfaces DS, GS, and LS for WALs require signaling as defined in Section 6.2.5.

Compatible channel interfaces and available WAL channel interface CELLE forth in Technical References at the end of Paragraph 7.2.

D. Analog Service to Service Through Connect Arrangement

Multiplexed Arrangement

BY 6 # R. S. # 19 This provides for the interconnection of two subtending analysis Service Commission derived from DS1 multiplexed services. The through connect will Minsels RI provisioned in lieu of a typical voice grade channel termination. The ordering customer must provide channel assignments for both. Voice Grade channel mileage is required if the multiplexed services are terminated in two separate Hubs.

- (AT) E. Optional Features, BSEs and Functions
- (AT) 1. Central Office Bridging BSE Capability
  - Voice Bridging (two-wire and four-wire) a.
- APR 1 1 1993 92-301

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b. Data Bridging (two-wire and four-wire)

c. DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports

Issued: MAR 2 6 1993

### Effective:

APR 1 1 1993

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

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7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.3 Voice Grade Service-(Continued)

MISSOURI Public Service Commission

B. Technical Specifications Packages-(Continued)

The technical specifications for these parameters are delineated in Technical References set forth at the end of Paragraph 7.2.

C. Channel Interfaces

The following channel interfaces for Voice Grade Service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade Service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

Combination of channel interfaces DS, GS, and LS for WALs require signaling as defined in Section 6.2.5.

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

(AT) D. Analog Service to Service Through Connect Arrangement

Multiplexed Arrangement

This provides for the interconnection of two subtending analog channels derived from DS1 multiplexed services. The through connect will be provisioned in lieu of a typical voice grade channel termination. The ordering customer must provide channel assignments for both. Voice Grade channel mileage is required if the multiplexed services are terminated in two separate Hubs.

- (FC) E. Optional Features and Functions
  - 1. Central Office Bridging Capability
    - a. Voice Bridging (two-wire and four-wire)
    - b. Data Bridging (two-wire and four-wire)

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c. DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports

Issued: FEB 2 2 1990

Effective: MAR 2 6 1990

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

MAR 26 1990

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#### ACCESS SERVICES

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

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B. Technical Specifications Packages-(Continued)

The technical specifications for these parameters (except for dropouts, gain hits and phase hits) are delineated in Technical Reference PUB 62500 (WALs), PUB 62501 and associated Addendum. The technical specifications for dropouts, phase hits and gain hits are delineated in Technical Reference PUB 41004, Table 4.

C. Channel Interfaces

The following channel interfaces for Voice Grade Service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade Service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

Combination of channel interfaces DS, GS, and LS for WALs require signaling as defined in Section 6.2.5.

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

- D. Optional Features and Functions
  - 1. Central Office Bridging Capability
    - a. Voice Bridging (two-wire and four-wire)
    - b. Data Bridging (two-wire and four-wire)
    - c. DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports ED

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

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## ACCESS SERVICES

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7.2 Service Descriptions-(Continued)

7. SPECIAL ACCESS SERVICE-(Continued)

7.2.3 Voice Grade Service-(Continued)

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B. Technical Specifications Packages-(Continued)

The technical specifications for these parameters (except for dropouts, gain hits and phase hits) are delineated in Technical Reference PUB 62500 (WALs), PUB 62501 and associated Addendum. The technical specifications for dropouts, phase hits and gain hits are delineated in Technical Reference PUB 41004, Table 4.

C. Channel Interfaces

The following channel interfaces for Voice Grade Service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade Service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

(AT) Combination of channel interfaces DS, GS, and LS for WALs require signal (AT) ing as defined in Section 6.2.5.

- (AT) Compatible channel interfaces and available WAL channel interfaces are
   (AT) set forth in Paragraph 7.3.5, C., following.
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- D. Optional Features and Functions
  - 1. Central Office Bridging Capability
    - a. Voice Bridging (two-wire and four-wire) Public Service Commission
    - b. Data Bridging (two-wire and four-wire)
    - c. DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports

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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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Access Services Tariff Section 7 1st Revised Sheet 19 Replacing Original Sheet 19

(CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.3 Voice Grade Service-(Continued)
- B. Technical Specifications Packages-(Continued)



The technical specifications for these parameters (except for dropouts, gain hits and phase hits) are delineated in Technical Reference PUB 62501 and associated Addendum. The technical specifications for dropouts, phase hits and gain hits are delineated in Technical Reference PUB 41004, Table 4.

C. Channel Interfaces

The following channel interfaces for Voice Grade Service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade Service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

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

- D. Optional Features and Functions
  - 1. Central Office Bridging Capability
    - Voice Bridging (two-wire and four-wire) a.
    - Ъ. Data Bridging (two-wire and four-wire)
    - c. DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports



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BY ZALR.S. #19

Public Service Commission

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Issued:

JUN 27 1986 Effective: JUL 1 1986 By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

Access Services Tariff

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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) Commission
- 7.2.1 Analog Services-(Continued)
- B. Voice Grade Services-(Continued)
  - 1. Voice Grade 1 (VG1) Special Access Service-(Continued)
    - d. Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

	Limit (dBrnCO)(1)	)
<u>Channel Mileage (mi)</u>	Type V1 Type V2	2
0 - 50	32 38	
51 - 100	33 39	
101 - 200	35 41	
201 - 400	37 43	
401 - 1000	39 45	

- Echo Control

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



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

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Effective: JAN 0 1 1984

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

Access Services Tariff Section 7 4th Revised Sheet 20 Replacing 3rd Revised Sheet 20

## ACCESS SERVICES

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

7.2 Service Descriptions-(Continued)

7.2.3 Voice Grade Service-(Continued)

## (MT) E. Optional Features, BSEs and Functions

- 1. Central Office Bridging BSE Capability
  - a. Voice Bridging (two-wire and four-wire)
  - b. Data Bridging (two-wire and four-wire)
  - c. DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports
  - d. Telemetry and Alarm Bridging

Split Band, Active Bridging Passive Bridging Summation, Active Bridging

2. Central Office Multiplexing BSE

Voice to Telegraph Grade (43-Type Carrier): An arrangement that converts a voice grade channel to telegraph grade channels using frequency division multiplexing.

3. Conditioning BSE

Conditioning provides more specific transmission characteristics for Voice Grade Services. C-type conditioning controls attenuation distortion and envelope delay distortion. Sealing current helps maintain continuity on dry metallic loops.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid-link or end link. C-type conditioning and data capability may be combined on the same service.

Issued:	September 6, 1995	Effective:	October 6, 1995	
	By HORAC	E WILKINS, JR., Presi	dent-Missouri	FILE



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ACCESS SERVICES 7. SPECIAL ACCESS SERVICE-(Continued) 7.2 Service Descriptions-(Continued) 7.2.3 Voice Grade Service-(Continued) Optional Features, BSEs and Functions-(Continued) Ε. 1. Central Office Bridging BSE Capability-(Continued) Telemetry and Alarm Bridging d. Split Band, Active Bridging Passive Bridging Summation, Active Bridging 2. Central Office Multiplexing BSE frequency division multiplexing. 3. Conditioning BSE service. CANCELLED DCT - 6 1995 BY 4TX R.S MISSOURI Issued: MAR 2 0 1993 Effective:

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> MISSOURI Public Service Commission

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Voice to Telegraph Grade (43-Type Carrier): An arrangement that converts a voice grade channel to telegraph grade channels using

(AT)

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of canceling this tariff.

Conditioning provides more specific transmission characteristics for Voice Grade Services. C-type conditioning controls attenuation distortion and envelope delay distortion. Sealing current helps maintain continuity on dry metallic loops.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid-link or end link. C-type conditioning and data capability may be combined on the same

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

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#### ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

MISSOUAI Public Service Commission

- 7.2.3 Voice Grade Service-(Continued)
- (FC) E. Optional Features and Functions-(Continued)
  - 1. Central Office Bridging Capability-(Continued)
    - d. Telemetry and Alarm Bridging

Split Band, Active Bridging Passive Bridging Summation, Active Bridging

2. Central Office Multiplexing

Voice to Telegraph Grade (43-Type Carrier): An arrangement that converts a voice grade channel to telegraph grade channels using frequency division multiplexing.

3. Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade Services. C-type conditioning controls attenuation distortion and envelope delay distortion. Sealing current helps maintain continuity on dry metallic loops.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid-link or end link. C-type conditioning and data capability may be combined on the same service.

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Issued: FEB 2 2 1990

Effective: MAR 2 6 1990

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

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(CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
  - 7.2.3 Voice Grade Service-(Continued)
  - D. Optional Features and Functions-(Continued)
    - 1. Central Office Bridging Capability-(Continued)
      - d. Telemetry and Alarm Bridging

Split Band, Active Bridging Passive Bridging Summation, Active Bridging

2. Central Office Multiplexing

Voice to Telegraph Grade (43-Type Carrier): An arrangement that converts a voice grade channel to telegraph grade channels using frequency division multiplexing.

3. Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade Services. C-type conditioning controls attenuation distortion and envelope delay distortion. Sealing current helps maintain continuity on dry metallic loops.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid-link or end link. C-type conditioning and data capability may be combined on the same service.





Issued: JUN 27 1986

Effective:

JUL 1 1986

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

Access Services Tariff Section 7 Ist\_Revised Sheet 20 Replacing 9755 55655,20 JUN 2 7 1986 MISSUUKI Public Service Commission

No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose Original Sheet 20 NEUEUVE of canceling this tariff. ACCESS SERVICES DEC 20 1000 7. SPECIAL ACCESS SERVICE-(Continued) 7.2 Technical Service Descriptions for Special Access Service-(Continued) Public Service Commission 7.2.1 Analog Services-(Continued) B. Voice Grade Services-(Continued) 1. Voice Grade 1 (VG1) Special Access Service-(Continued) d. Transmission Performance-(Continued) - Echo Control-(Continued) Echo Singing Return Loss Return Loss Standard Return Loss Interface (Return Loss) 5 dB 2.5 dB Four-Wire Interface 16 dB 11 dB (Equal Level Echo Path Loss) Effective Four-Wire Transmission (Two-wire interface at the End User's premises). Echo Singing Return Loss Return Loss Two-Wire Interface (Return Loss) 24 dB18 dB Four-Wire Interface 20 dB 14 dB (Equal Level Echo Path Loss) (For Centrex application 1: 12: 2 dB pad is "in") GANGELLED JAH - 1 (SC). 253 83 -JUL 1 1986 124R 5,#20 **BY** PUBLIC SERVICE COMMISSION OF MISSOURI DEC 2 9 1983 JAN 0 1 1984 Issued: Effective: By R. D. BARRON, Vice President-Missouri Southwestern Bell Telephone Company

St. Louis, Missouri

## ACCESS SERVICES

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

7.2 Service Descriptions-(Continued)

- 7.2.3 Voice Grade Service-(Continued)
- (AT) E. Optional Features, BSEs and Functions-(Continued)

### (AT) 3. Conditioning BSE-(Continued)

a. C-Type Conditioning (1)

C-type conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-type conditioning are:

Attenuation Distortion (Frequency Response) <u>Relative to 1004 Hz</u>					
Frequency Range (Hz)	Variation (dB)				
400-2800 300-3000 3000-3200	-1.0 to +2.0 -1.0 to +3.0 -2.0 to +6.0				
Envelope I Distortic	•				
	Variation				
Frequency	(micro-				
Range (Hz)	seconds)				
1000-2600	100				
800-2600	200				
600-2600	300				
500-2800	600				
500-3000	3000				

(1) This feature is obsolete, and limited to existing installations at existing locations, for existing customers.

Effective: April 11, 1993

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



Section 7 2nd Revised Sheet 21 Replacing 1st Revised Sheet 21 RECEIVED

Access Services Tariff

FEB 20 1990

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.3 Voice Grade Service-(Continued)

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

(AT)

Conditioning-(Continued)

a. C-Type Conditioning(1)

C-type conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-type conditioning are:

Frequency	Variation	
Range (Hz)	(dB)	
400-2800	-1.0 to +2.0	CANCELLED
300-3000	-1.0 to $+2.0$	
3000-3200	-2.0 to $+6.0$	APR 11 1993
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	Variation	Wi9200
Frequency	(micro-	
Range (Hz)	_seconds)	
1000-2600	100	
800-2600	200	
600-2600	300	
500-2800	600	

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(AT) (1) This feature is obsolete, and limited to existing installations at existing (AT) locations, for existing customers.

Issued: FEB 2 2 1990

Effective: MAR 2 6 1990

FILED

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

Public Service Commissio.

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

(CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
  - 7.2 Service Descriptions-(Continued)
  - 7.2.3 Voice Grade Service-(Continued)
  - D. Optional Features and Functions-(Continued)
    - 3. Conditioning-(Continued)
      - a. C-Type Conditioning

C-type conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-type conditioning are:

Attenuation Distortion (Frequency Response) Relative to 1004 Hz Frequency Variation

 Range (Hz)
 (dB)

 400-2800
 -1.0 to +2.0

 300-3000
 -1.0 to +3.0

 3000-3200
 -2.0 to +6.0

Envelope Delay Distortion

Frequency Range (Hz)	Variation (micro- seconds)
1000-2600	100
800-2600	200
600-2600	300
500-2800	600
500-3000	3000



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JUL 1 1988

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 Technical Service Descriptions for Special Access Service-(Continued)
  - 7.2.1 Analog Services-(Continued)
  - B. Voice Grade Services-(Continued)
    - 1. Voice Grade 1 (VG1) Special Access Service-(Continued)
      - d. Transmission Performance-(Continued)
        - Improved Return Loss

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

Standard			Improved	$\mathbf{RL}$	
	5		ERL 20		
SRL	2.5	dB	SRL 13.5	dB	

- Loss Variation

The long term loss variation from the nominal 1004 Hz EML shall not exceed +4.0 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 and between 304 Hz and 3004 Hz shall be within -3.0 dB and +12.0 db.

e. Available Facility Interface Combinations

VG1 is available only with specific facility interface combinations as set forth the paragraph 12.1, B.14., following.

- 2. Voice Grade 2 (VG2) Special Access Service JUL 1  $^{1980}$ 
  - a. Description

Special Access Service VGR DEDVICESS Channel for voice and frequency transmission capabalized. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an End User's premises.

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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 22 Replacing 4th Revised Sheet 22

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

- 7.2.3 Voice Grade Service-(Continued)
- (AT) E. Optional Features, BSEs and Functions-(Continued)

### (AT) 3. Conditioning BSE-(Continued)

b. Sealing Current Conditioning

Sealing current conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO-type channel interfaces.

c. Improved Attenuation Distortion (IAD)

Improved Attenuation Distortion upgrades the frequency versus loss response limits of the channel. The specifications for Improved Attenuation Distortion are delineated in Technical Reference set forth at the end of Paragraph 7.2.

d. C-Conditioning

C-Conditioning upgrades the frequency response and envelope delay distortion limits of the analog data channel. The specifications for C-Conditioning, which are less stringent than C-Type conditioning, are delineated in Technical References set forth at the end of Paragraph 7.2.

e. Improved Envelope Delay Distortion

Improved Envelope Delay Distortion Upgrades the frequency vs. delay response limits of the analog data channel. The specifications for Improved Envelope Delay Distortion are delineated in Technical References set forth at the end of Paragraph 7.2.

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



No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purposed 4th Revised Sheet 22 of canceling this tariff. Replacing 3rd Revised Sheet 22 RECEIVED ACCESS SERVICES FEB 2 ( 1990 7. SPECIAL ACCESS SERVICE-(Continued) MISSOURI 7.2 Service Descriptions-(Continued) Public Service Commission 7.2.3 Voice Grade Service-(Continued) (FC) E. Optional Features and Functions-(Continued) Conditioning-(Continued) b. Sealing Current Conditioning Sealing current conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO-type channel interfaces. (AT) Improved Attentuation Distortion (IAD) c. Improved Attenuation Distortion upgrades the frequency versus loss response limits of the channel. The specifications for Improved Attenuation Distortion are delineated in Technical AT) References set forth at the end of Paragraph 7.2. (AT) d. C-Conditioning C-Conditioning upgrades the frequency response and envelope delay distortion limits of the analog data channel. The specifications for C-Conditioning, which are less stringent than C-Type conditioning, are delineated in Technical References set forth at the end of Paragraph 7.2. e. Improved Envelope Delay Distortion Improved Envelope Delay Distortion Upgrades the frequency vs. delay response limits of the analog data channel. The specifications for Improved Envelope Delay Distortion are delineated in Technical References set forth at the end of Paragraph 7.2. (AT) CANCELLED APR 11 1993 # 22 BY 5TH R.S. Public Service Commission MISSOURI

Issued: FEB 2 2 1990

Effective: MAR 2 6 1990 FLED

MAR 26 1990

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

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

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(AT)

Access Services Tariff Section 7 3rd Revised Sheet 22 Replacing 2nd Revised Sheet 22 RECEIVED

### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

MISSOUR! Public Service Commission

QCT 1 3 1987

- 7.2 Service Descriptions-(Continued)
- 7.2.3 Voice Grade Service-(Continued)
- D. Optional Features and Functions-(Continued)
  - 3. Conditioning-(Continued)
    - b. Sealing Current Conditioning

Sealing current conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO-type channel interfaces.

c. Improved Attenuation Distortion upgrades the frequency versus loss response limits of the channel. The specifications for Improved Attenuation Distortion are delineated in Technical Reference PUB 62500 for WALs.

CANCELLED MAR 26 1990 BY 44R Star Public Sanica Commission

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OCT 16 1987 To-87-42 Public Service Commission

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

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

(CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.3 Voice Grade Service-(Continued)
- D. Optional Features and Functions-(Continued)
  - 3. Conditioning-(Continued)
    - b. Sealing Current Conditioning

Sealing current conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO-type channel interfaces.

CANCELLED OCT 16 1987 BY 3Rd R.S. #2 Public Service Commission MISSOUFI

FUED JUE 1 1986 86-84 Public Service Commission

Issued:

JUN 27 1986

Effective: JUL 1 1986

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

Access Services Tariff Section 7 2nd Revised Sheet 22 Replacing-1st-Revised\_Sheet 22 RECEIVED JUN 2 7 1986 MISSUUKI Public Service Commission | ]

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				ACCESS SERVIO	CES	10 F 2		REGEIVED
	7. SPECI	AL AC	CESS SERVICE-(Con	ntinued)				AUG 1 - 100 %
	7.2 Tec	hnica	l Service Descri	ptions for Spea	cial Acc	ess S	erv	
	7.2.1	Analo	g Services-(Cont	inued)				Public Service Commission
	B. Vo	ice G	rade Services~(C	ontinued)				
	2.	Voi	ce Grade 2 (VG2)	Special Access	s Servic	e-(Co	nti	nued)
		а.	Description-(Co	ntinueð)				
			or four-wire an	d the IC termin	nal loca	tion	int	premises is two-wire erface is four-wire. or effective four-wire
		Ъ.	Illustrative Ap	plications				
			Special Access facilities requ services such a	ired to provide				e as part of the ecommunications
(AT)			<ul> <li>Centrex C.O.</li> <li>Concentrator</li> <li>Extension Ser</li> <li>Off-Premises</li> <li>Private Line</li> <li>Paging Circui</li> <li>Foreign Excha</li> <li>Centrex Stati</li> <li>Off-Premises</li> <li>Off-Premises</li> </ul>	Identifier Trun vice Intercommunicat Voice Circuit t nge Line (Close on Line - Off-) Extension	tions Li ed End) Premises			
				GANDE	LED			
				JUL 1	1986			
				and Ro	5.22			
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-								OCT 15 1984
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Stern pell Telephone St. Louis, Missouri

### ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued) 7.
- 7.2 Technical Service Descriptions for Special Access Service-(Continued) Public Service Commission
  - 7.2.1 Analog Services-(Continued)
  - Β. Voice Grade Services-(Continued)
    - 2. Voice Grade 2 (VG2) Special Access Service-(Continued)
      - a. Description-(Continued)

The 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 two-wire or effective four-wire transmission.

Access Services Tariff

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PUBLIC SERVICE COMMISSION

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Original Sheet 22 CENED

Section 7

b. Illustrative Applications

Special Access Service VG2 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Centrex C.O. Line
- Concentrator Identifier Trunk
- Extension Service
- GANGELLED - Off-Premises Intercommunications Line
- Private Line Voice Circuit
- Foreign Exchange Line (Closed End)
- Centrex Station Line Off-Premises
- Off-Premises Extension
- Off-Premises PBX Station Line

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Access Services Tariff Section 7 4th Revised Sheet 23 Replacing 3rd Revised Sheet 23

## ACCESS SERVICES

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

- 7.2 Service Descriptions-(Continued)
- 7.2.3 Voice Grade Service-(Continued)
- (AT) E. Optional Features, BSEs and Functions-(Continued)
  - 4. Reserved for future use.

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Effective: April 11, 1993

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Access Services Tariff Section 7 3rd Revised Sheet 23 Replacing 2nd Revised Sheet 23

#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.3 Voice Grade Service-(Continued)

4. Reserved for future use.

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

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MISSOURI Public Service Commission

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APR 11 1993 BY 4th R.S. 23 Public Service Commission MISSOURI



Issued: FEB 2 2 1990

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

MAR 26 1990

Public Service Commissic.

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 2nd Revised Sheet 23 Replacing 1st Revised Sheet 23 JICES JUN 2 7 1986 MISSUUKI Public Service Commission

(CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.3 Voice Grade Service-(Continued)
- D. Optional Features and Functions-(Continued)
  - 4. Reserved for future use.

CANCELLED MAR 26 1990 Public Service Commission MISSOURI

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Issued:

JUN 27 1986

Effective:

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

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ACCESS SERVI	میکنند. دار
7. SPECIAL ACCESS SERVICE-(Continued)	REGEIVED
7.2 Technical Service Descriptions for Spe	
7.2.1 Analog Services-(Continued)	AUG 1 1 (22 )
B. Voice Grade Services-(Continued)	UNSSOURI Public Service Commission
2. Voice Grade 2 (VG2) Special Acces	s Service-(Continued)
c. Optional Features	
<ul> <li>Central office bridging cap</li> <li>Improved return loss for eff two-wire transmission at the User's premises.</li> <li>IC specified End User premises</li> </ul>	fective e End .ses receive
(RT) level within a range accept Telephone Company.	
- Improved return loss at fou of interface, applicable to wire leg of effective four-	each two-
d. Transmission Performance	
- C-Message Noise	
The C-Message Noise shall b	e less than:
Channel Mileage (mi)	Limit (dBrnCO)(1) Type V1 Type V2
$\begin{array}{r} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \end{array} \end{array} \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ $	LEW 38
51 - 1000 = 1000 101 - 200	. 35 41
1 _ ليل 201 - 400	1986 37 43
401 - 1000	23 <sup>39</sup> . 45
- Echo Control BY	COMMISSION
Echo Control, identified as	soun s Equal Level Echo Path Loss at
	turn Loss at two-wire interfaces,
÷	rn Loss and Singing Return Loss, remises or IC terminal location
shall be not less than the	
(1) Where facility network conditions will a	support the parameters. The Will
be provided. Where the Type VI parameter	ers cannot be supported, Type V2-will
be provided.	OCT 15 1984
Issued: AUG 1 5 1984 Effe	ective: OCT 1 5r984c Service Commission
By R. D. BARRON, Presider Southwestern Bell Te	

St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 Original Sheet 23

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#### ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Technical Service Descriptions for Special Access Service-(Continued)  $\sqrt{\frac{1}{2}}$ ( IL
- 7.2.1 Analog Services-(Continued)
  - Β. Voice Grade Services-(Continued)
    - 2. Voice Grade 2 (VG2) Special Access Service-(Continued) Service Commission
      - c. Optional Features
        - Central office bridging capability. - Improved return loss for effective
        - two-wire transmission at the End User's premises.
        - IC specified End User premises receive level within a range acceptable to the Telephone Company on effective four-wire transmission.
        - Improved return loss at four-wire point of interface, applicable to each twowire leg of effective four-wire channel.

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- d. Transmission Performance
  - C-Message Noise

The C-Message Noise shall be less than:

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

- Echo Control

Echo Control, identified as Equal Level Echo Path Loss at four-wire interfaces or Return Loss at two-wire interfaces, and expressed as Echo Return Loss and Singing Return Loss, at either the End User's premises or IC terminal location shall be not less than the following limits: 83 - 253

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

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JAN 0 1 1984 Effective:

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

Access Services Tariff Section 7 3rd Revised Sheet 24 Replacing 2nd Revised Sheet 24

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.3 Voice Grade Service-(Continued)

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

Improved termination at a four-wire point of termination, ordered with either an effective two-wire or effective four-wire channel: Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The improved termination parameters are delineated in Technical References set forth at the end of Paragraph 7.2.

6. Improved Return Loss

Improved return loss at a two-wire point of termination ordered only on effective two-wire channels: Provides for more stringent echo control specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The improved return loss parameters are delineated in Technical References set forth at the end

of Paragraph 7.2.

7. Data Capability

Data capability provides transmission characteristics suitable for data communications. Specifically, data capability provides for the control of signal to C-notched noise ration and intermodulation distortion.

The signal to C-notched noise ratio and intermodulation distortion parameters for data capability are:

- Signal to C-notched noise ratio is equal to or greater than 32 dB

March 26, 1993

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

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-			ACCESS SERVICES					
	7. S	PECI	AL ACCESS SERVICE-(Continued)	RECEIVED				
	7.2	Ser	vice Descriptions-(Continued)	FE8 2 C 1990				
	7.2	.3	Voice Grade Service-(Continued)	MISSOURI				
(FC)	Е.	Opt	tional Features and Functions-(Continued)	Public Service Commissi	on			
CT)		5.	Improved Termination					
(CT) (CT)			Improved termination at a four-wire point either an effective two-wire or effective for a fixed 600 ohm impedance, variable is Telephone Company equipment is required at this option is ordered. The improved term delineated in Technical References set for	four-wire channel: Provides evel range and simplex reversal it the customer's premises where mination parameters are				
<b>(</b> AT)		6.	Improved Return Loss					
(FC)			Improved return loss at a two-wire point of effective two-wire channels: Provides for specifications. In order for this option transmission path must be four-wire at one POT. Placement of Telephone Company equip customer's premises with the two-wire POT.	or more stringent echo control to be applicable, the POT and two-wire at the other pment may be required at the				
(CT)	)		parameters are delineated in Technical Res of Paragraph 7.2.					
(FC)	)	7.	Data Capability					
(PT)			Data capability provides transmission char communications. Specifically, data capabi of signal to C-notched noise ration and in	ility provides for the control				
			The signal to C-notched noise ratio and in parameters for data capability are:	ntermodulation distortion				
			- Signal to C-notched noise ratio is equal to or greater than 32 dB					
				CANCELLED	)			
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				MISSOURI	531011			
	Issued	: Fl	EB 2 2 1990 Effective:	MAR 2 6 1990				
			By R. D. BARRON, President-Misson	MAR 26 1990				

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

Public Service Commission

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

(CP)ACCESS SERVICES

- SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.3 Voice Grade Service-(Continued)
- D. Optional Features and Functions-(Continued)
  - 5. Improved Return Loss
    - a. Improved return loss at a four-wire point of termination, ordered with either an effective two-wire or effective four-wire channel: Provides for a fixed 600 chm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The improved return loss parameters are delineated in Technical Reference PUB 62501.
    - b. Improved return loss at a two-wire point of termination ordered only on effective two-wire channels: Provides for more stringent echo control specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The improved return loss parameters are delineated in Technical Reference PUB 62501.
  - 6. Data Capability

Data capability provides transmission characteristics suitable for data communications. Specifically, data capability provides for the control of signal to C-notched noise ratio and intermodulation distortion. It is available for two-point services or multipoint services.

The signal to C-notched noise ratio and intermodulation distortion parameters for data capability are:

	- Signal to C-notched CANCE	NOCELLED ratio is equal to or greaternthan-32 IP INL 1200 JUL 1 1986			
	JUN 27 1986	Commission	JUL 1 86- Public Servic	1986 <b>8.4</b> e Commission	
Issued:	JUN 27 1986	Effective:	JUL 1 198	6 •	
	Dy R. D. DARK	ON, President-Missour: ern Bell Telephone Com			



Access Services Tariff

Section 7

St. Louis, Missouri

Access Services Tariff

DEC 20 1000

Public Service Commission

Original Sheet 24

Section 7

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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)
    - 2. Voice Grade 2 (VG2) Special Access Service-(Continued)
      - <sup>-</sup>d. Transmission Peformance-(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 <u>Return Loss</u>
Standard Return Loss	•	
(at Two-Wire Interface)	5 dB	2.5 dB
Improved Return Loss (at Two-wire Inter- face)	13 dB	8 dB .
Four-Wire Interface	16 dB	11 dB
(Equal Level Echo Path Loss) (For Centrex Application, 2 dB pad is "in")		
Effective Four-Wire Transmission (Two-wire interface at the End,	User's premise	es.)
	Echo	Singing
BY SERVICE	OMMISSIONLOSS	Return Loss -
Two-wire Interface PUBLIC SERVICE (Return Loss)	sou™ 24 dB	18' dB
Four-wire Interface		114-142
(Equal Level Echo Path Loss)	20 dB	83-253

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

Access Services Tariff Section 7 4th Revised Sheet 25 Replacing 3rd Revised Sheet 25

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

- 7.2 Service Descriptions-(Continued)
- 7.2.3 Voice Grade Service-(Continued)
- (AT) E. Optional Features, BSEs and Functions-(Continued)
  - 7. Data Capability-(Continued)
    - Intermodulation distortion:
    - Signal to second order modulation products (R2) is equal to or greater than 38 dB
    - Signal to third order modulation products (R3) is equal to or greater than 42 dB

When a service equipped with data capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

8. Improved Echo Control

Improved Echo Control for two-wire WALs provides more stringent control of reflected signals. Placement of Telephone Company equipment may be required at the customer's premises. The Improved Echo Control specifications are delineated in Technical References set forth at the end of Paragraph 7.2.

9. Improved Equal Level Echo Path Loss

Provides improved echo control at four-wire interface for effective two- wire voice grade configurations. Specifications can only be met with limited facility configurations. Improved Equal Level Echo Path Loss specifications are delineated in Technical References set forth at the end of Paragraph 7.2.

Issued:

March 26, 1993



By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company St. Louis, Missouri
tar exc	iff ept	vill for	nt to this be issued the purpose g this tariff.	Access Services Tariff Section 7 3rd Revised Sheet 25 Replacing 2nd Revised Sheet 25
			ACCESS SERVICES	
7.	SPE	CIAL	ACCESS SERVICE-(Continued)	RECEIVED
7.	.2 S	ervi	ce Descriptions-(Continued)	FEB 2 G 1990
7	7.2.3	Vo	ice Grade Service-(Continued)	MISSOURI Public Service Commission
(FC)	Ε.	Opti	onal Features and Functions-(Continued)	Fublic Selvice Commission
(FC)		7.	Data Capability-(Continued)	
			<ul> <li>Intermodulation distortion:</li> <li>Signal to second order modulation produor greater than 38 dB</li> <li>Signal to third order modulation produor greater than 42 dB</li> </ul>	
			When a service equipped with data capabili communications, the quality of the voice t satisfactory.	
(FC)		8.	Improved Echo Control	
(CT) (CT)			Improved Echo Control for two-wire WALs pr control of reflected signals. Placement o ment may be required at the customer's pre Control specifications are delineated in T at the end of Paragraph 7.2.	f Telephone Company equip- mises. The Improved Echo
(AT)		9.	Improved Equal Level Echo Path Loss	
(AT)				ations can only be met with Equal Level Echo Path Loss
•				CANCELLED
				APR 11 1993 BY <u>4 73 R 5</u> <del>2</del> 5 Public Service Commission MISSOURI

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By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri MAR 2**6** 1990

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### ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.3 Voice Grade Service-(Continued)

Public Service Commissior

- D. Optional Features and Functions-(Continued)
  - 6. Data Capability-(Continued)
    - Intermodulation distortion:
      - Signal to second order modulation products (R2) is equal to or greater than 38 dB
      - Signal to third order modulation products (R3) is equal to or greater than 42 dB

When a service equipped with data capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

(AT)

(AT)

7. Improved Echo Control

Improved Echo Control for two-wire WALs provides more stringent control of reflected signals. Placement of Telephone Company equipment may be required at the customer's premises. The Improved Echo Control specifications are delineated in Technical Reference PUB 62500 for WALS.



FILED

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

Issued: OCT 1 4 1987

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

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

(CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
  - 7.2 Service Descriptions-(Continued)
  - 7:2.3 Voice Grade Service-(Continued)
  - D. Optional Features and Functions-(Continued)
    - 6. Data Capability-(Continued)
      - Intermodulation distortion:
        - Signal to second order modulation products (R2) is equal to or greater than 38 dB
        - Signal to third order modulation products (R3) is equal to or greater than 42 dB

When a service equipped with data capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

CANCELLED OCT 10 1987 BY 244 PS 12 Public Service Commission



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Access Services Tariff Section 7 Original Sheet 25

#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

DEU 20 100

- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
- 7.2.1 Analog Services-(Continued)
  - B. Voice Grade Services-(Continued)
    - 2. Voice Grade 2 (VG2) Special Access Service-(Continued)
      - d. Transmission Peformance-(Continued)
        - Improved Return Loss

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

Stan	dard		Improved	RL
ERL			ERL 20	
SRL	2.5	dB	SRL 13.5	dB

Loss Variation

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

- Attenuation Distortions

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

e. Available Facility Interface Combinations

VG2 is available only in the cife Endlity interface combinations as set forth in Paragraph 7.2.1, B.14.7 (12) following. JUL 1 1986

> 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 4th Revised Sheet 26 Replacing 3rd Revised Sheet 26

#### ACCESS SERVICES

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

- 7.2 Service Descriptions-(Continued)
- 7.2.3 Voice Grade Service-(Continued)
- (AT) E. Optional Features, BSEs and Functions-(Continued)
  - 10. Signaling Capability

Signaling capability provides for the process by which one customer premises alerts another customer premises on the same service with which it wishes to communicate.

11. Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service.

12. 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 another 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.

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

> Available with Technical Specifications Package VG-

<u>C 1 2 3 4 5 6 7 8 9 10 11 12 W</u>

C-Type Condi- tioning (1) Central Office	Х		XXXX	ххх
Bridging Capabilit	x	x	хх	ххх
Central Office	Λ	Λ	ΛΛ	ΛΛΛ
Multiplexing	Х		Х	
C-Conditioning	Х		XXXX	ХХХ

(1) This feature is obsolete, and limited to existing installations at existing locations, for existing customers.



(AT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 3rd Revised Sheet 26 Replacing 2nd Revised Sheet 26

#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.3 Voice Grade Service-(Continued)

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

#### (FC) 10. Signaling Capability

Signaling capability provides for the process by which one customer premises alerts another customer premises on the same ANCELLED vice with which it wishes to communicate.

(FC) 11. Selective Signaling Arrangement

An arrangement that permits code selective ringing for up BY ten Commission codes on a multipoint service. Public Service Commission

(FC) 12. 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 another 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.

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

										echn:						
					5	peci.	tica	tion	s Pa	ckage	e VG-	-				
$\bullet$		<u>c</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>v</u>	
(AT)	C-Type Condi- tioning (1) Central Office Bridging	X					X	X	X	X	X	X				
	Capabilit Central Office	X		X			X	X				X	X	X		
	Multiplexing	X						X								
(AT)	C-Conditioning	X					X	X	I	X	X	X				
(AT) (1) AT)	This feature is ob- locations, for exis					ed t	o ex	isti	ng i	nsta	llat	ions	at e	exist	ing	
								<u>n 9</u>	; 6 1	000			Į,	T <u>i</u> K	D	
Issued: F	B 2 2 1990			E	ffec	tive	: E1	AN Z	, 0 1	330						
	By R.	D. BA	RRON	. Pr	esid	ent-	Miss	ouri	Div	isio	n		iyi Al	126	1990	
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FEB 20 1990

MISSOURI Public Service Commission

MISSOURI

APR 11 1993

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 2nd Revised Sheet 26 Replacing 1st Revised Sheet 26

#### ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
  - 7.2 Service Descriptions-(Continued)
  - 7.2.3 Voice Grade Service-(Continued)
  - D. Optional Features and Functions-(Continued)
    - 8. Signaling Capability

Signaling capability provides for the process by which one customer premises alerts another customer premises on the same service with which it wishes to communicate.

9. Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service.

10. 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 another 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.

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

									th T s Pa		ical e VG	-			
(AT)		<u>c</u>	1	2	3	<u>4</u>	5	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	W
	C-Type Condi- tioning Central Office	x								x	x	x			
	Bridging Capability Central Office	X	C	MP	ICE	LLE	X	X				x	x	X	
)	Multiplexing	X			R2	$\ell_{(3)}$	30 #2	6 X	- ^			,	FILE	D	
				BY BY MF	32	ceC	OM	hissi	011			0C To <u>c Ser</u>	T 16		
)			- <del>קט</del> י	<u>، عنا</u> ط	-NAL	<u>680</u>	<u> </u>				<u>ubli</u>	<u>c Ser</u>	<u>viče (</u>	Comr	nissia
Iss	sued: OCT 1 4 1987				]	Effe	ctiv	e: [	)CT	16	1987	i -			
		. D. H South	west		Bell	Tel	epho	ne C			ion				

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OCT 1 3 1987

MISSOURI Public Service Commissior

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

(CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
  - 7.2.3 Voice Grade Service-(Continued)
  - D. Optional Features and Functions-(Continued)
    - 8. Signaling Capability

Signaling capability provides for the process by which one customer premises alerts another customer premises on the same service with which it wishes to communicate.

9. Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service.

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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 another channel that terminates in either the same or a different customer premises. A key activated or dial-up control service is ED required to operate the transfer arrangement. A spare line OFELLED required, is not included as part of the option. required, is not included as part of the option.

The following table shows the technical specifications packages 007 = 0.1987 with which the optional features and functions

BYZABSTER 12 С 1 10 11 2 3 4 5 6 7 8 9 C-Type Condi-Х Х Х Х Х tioning Х Х Central Office Bridging Х Х Х Х Capability Central Office Х Multiplexing Х 1000 · 1986 86-84 Service Commission Issued: Effective: 1 1986 JUN 27 1986 By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri \_ **\_** . . .



# ACCESS SERVICES

## DEC 20 1000

----Section 7

Original Sheet 26

Access Services Tariff

7. SPECIAL ACCESS SERVICE-(Continued)

1.50171

- 7.2 Technical Service Descriptions for Special Access Service-(Continued) and Mission
- 7.2.1 Analog Services-(Continued)
- B. Voice Grade Services-(Continued)
  - 3. Voice Grade 3 (VG3) Special Access Service
    - a. Description

Special Access Service VG3 provides a channel for voice frequency transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an End User's premises. The 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 two-wire or four-wire transmission.

b. Illustrative Applications

Special Access Service VG3 is suitable for use as part of the facilities required to provide intrastate telecommunications services such as:

- Foreign Exchange Trunk (Closed End)
- Alternate Use Service
- PBX/CTX Tie Trunks
- SSN Access Line
- SSN Station Line
- SSN Network Line
- SSN Tie Trunk

Issued:

- Station and Premises Connecting Facilities

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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 5th Revised Sheet 27 Replacing 4th Revised Sheet 27

#### ACCESS SERVICES

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

- 7.2 Service Descriptions-(Continued)
- 7.2.3 Voice Grade Service-(Continued)
- (AT) E. Optional Features, BSEs and Functions-(Continued)

	Available with Technical Specifications Package VG-
	<u>C 1 2 3 4 5 6 7 8 9 10 11 12 W</u>
Data Capability Improved Attenuation	X X X X
Distortion (IAD) Improved Echo Control at two-wire WAL point of termination	X X X X X X X X X X X X X X X X X X X
Improved Termination at four-wire point of termina- tion	X X X X X X X X X X X X X X X X X X X
Improved Return Loss at two-wire	
point of termina- tion	X X X X
Improved ELEPL Sealing Current	X X X X X X
Conditioning Selective Signal-	X X X X X X
ing Arrangement Signaling	X X
Capability Improved Envelope Delay	XXXX XXX *
Distortion(IEDD) Transfer	X X X X X X X
Arrangement	x x x x x x x x x x x x x x x x x x x

\* Signaling is provided in conjunction with Switched Access Service.

+ When WAL extensions are provided, Echo Control limits are not applicable.

Issued:	Mar

ch 26, 1993

April 11, 1993 Effective:

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



No supplement to this Access Services Tariff tariff will be issued Section 7 4th Revised Sheet 27 cept for the purpose Replacing 3rd Revised Sheet 27 a canceling this tariff. RECEIVED ACCESS SERVICES SPECIAL ACCESS SERVICE-(Continued) FEB 20 1990 7.2 Service Descriptions-(Continued) MISSOURI Public Service Commission 7.2.3 Voice Grade Service-(Continued) E. Optional Features and Functions-(Continued) (FC) Available with Technical Specifications Package VG-5 6 <u>7</u> 8 9 10 11 12 W С 1 2 3 4 X (RT) Data Capability X X **Improved** Attenuation X X X (AT) **Distortion (IAD)** X X X X X Improved Echo Control at two-wire WAL point of X+ termination **Improved Termination** (CT) at four-wire CANCELLED point of termina-X X Х X X X X X X X tion (AT) **Improved Return Loss** APR 11 1993 # at two-wire BY 5- Th R.S. = ) point of termina-X X X X Public Service Commission tion X X X X X (AT) Improved ELEPL X X MISSDURI Sealing Current Conditioning X X X X Selective Signal-X X ing Arrangement Signaling X X X X X X X Capability + AT) Improved Envelope Delay Distortion(IEDD) X X X X X X X Transfer X X X X X X X X X X Arrangement X XX

\_(HT)

\* Signaling is provided in conjunction with Switched Access Service.

+ When WAL extensions are provided, Echo Control limits are not applicable.

Issued: FEB 2 2 1990

Effective: MAR 2 6 1990

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

MAR 26 1390

Public Service Commission

No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose 3rd Revised Sheet 27 Replacing 2nd Revised Sheet 27 of canceling this tariff. ACCESS SERVICES 7. SPECIAL ACCESS SERVICE-(Continued) RECEIVED 7.2 Service Descriptions-(Continued) OCT 1 3 1987 7.2.3 Voice Grade Service-(Continued) MISSOURI D. Optional Features and Functions-(Continued) Public Service Commission 10. Transfer Arrangement-(Continued) Available with Technical Specifications Package VG-(AT)  $\underline{C} \ \underline{1} \ \underline{2} \ \underline{3} \ \underline{4} \ \underline{5} \ \underline{6} \ \underline{7} \ \underline{8} \ \underline{9}$ 10 11 12 W CANCELLED Data Capability Х X (AT) Improved Attenuation MAR 26 1990 Distortion Х BY 44 8.5. # 21 Improved Echo Public Service Commission Control at two-wire WAL point of (AT) X+ termination Improved Return Loss at four-wire point of termina-X X X X X X X X X X X Х Х Χ tion at two-wire point of termina-ХХ tion Х Х Sealing Current X X XX Х Х Conditioning Selective Signal-X Х ing Arrangement Signaling XXX \* Capability XXXX (RT) Transfer X X Х Arrangement Four-Wire/Two-Wire Conversion Ε. When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer-designated premises, a four-wire to two-wire conversion is required. The rate for the conver sion is included as part of the basic Channel Termination rate. (AT) \* Signaling is provided in conjunction with Switched Access Service. 0CT 16 1987 (AT) + When WAL extensions are provided, Echo Control limits are not applicable 7-42-Public Service Commission Issued: OCT 1 4 1987 Effective: OCT 16 1987 By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri

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

(CP)ACCESS SERVICES

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

D. Optional Features and Functions-(Continued)

							e wit tions			ical = VG-			
	<u>C</u>	<u>1</u>	2	3	4	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
Data Capability Improved Return Loss At Four-Wire	Х						Х	X			X		
Point Of Termination At Two-Wire	Х	Х	Х	X	Х	X	X	X	X	ÊD	Х	Х	X
Point Of Termination Sealing Current	Х		X	X						ÊD			
Conditioning Selective Sig- naling Arrange-	Х	X				Х	x <sup>0</sup>	CT :	161 2	281 <u>25.</u> 7.5.7	hissic	nc	X
ment	X		X			<b>.</b>	D Nic	Serv	ice (	JOIIII AR	(		
Signaling Capability Transfer	Х	X	Х	Х		ΡU	U.10	Χ <sub>11</sub>	SSU X	URI X			
Arrangement	Х	X	Х	Х	Х	Х	Х	Х	Х	х	Х	Х	Х

#### E. Four-Wire/Two-Wire Conversion

JUN 27 1986

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer-designated premises, a four-wire to two-wire conversion is required. The rate for the conversion is included as part of the basic Channel Termination rate of the conver-

15 1986 JUL 1. 86-84 Public Service Commission

Issued:

Effective:

JUL 1 1986

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



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No supplement to tariff will be i			Acc	ess Services Tariff Section 7
except for the p	-			st Revised Sheet 27
of canceling thi		S SERVICES	Keplacing	g Original Sheet 27
7. SPECIAL ACCE	SS SERVICE-(Continued	>		REGENVED
7.2 Technical	Service Descriptions	for Special Ac	cess Servi	ce-(Continued)
7.2.1 Analog	Services-(Continued)			AUG 14 1004
	de Services-(Continue			MISSOURI
3. Voice	Grade 3 (VG3) Specia	l Access Servi	ce-(Contin	Bublic Service Commission
c. 0	ptional Features			
-	Improved return loss at the End User's pr		two-wire	transmission
-	<ul> <li>IC specified End Use range acceptable to</li> </ul>	-		el within a
-	Improved return loss applicable to each t channel.			
d. 1	Transmission Performan	ice		
-	- CMessage Noise			
	The C-Message noise	shall be less	than:	
	<u>Channel Mileage (mi)</u>		mit (dBrnC pe Vl Ty	<u>0)(1)</u> pe V2
	$\begin{array}{r} 0 - 50 \\ 51 - 100 \\ 101 - 200 \\ 201 - 400 \\ 401 - 1000 \\ \end{array}$	UCELLED UL 1 1986	37	38 39 41 43 45
-	- Echo Control BY	MR S.27 SERVICE COMMISSIC		
	Echo Control, ident: wire interfaces or H Echo Return Loss and User's premises or I than the following I	li <b>DedNaSut</b> qual Return Loss at I Singing Retur IC terminal loc	Level Echo two-wire i n Loss, at	nterfaces, for both either the End
<pre>(1) Where facil     be provided     be provided</pre>	lity network condition 1. Where the Type Vl 1.	ns will support parameters car	the para not be su	portege Type VI 984 <sup>111</sup>
Issued: AUG	1 5 1984	Effective:	<b>0ct</b> 1 5	Public Service Commission
		resident-Missou Bell Telephone Couis, Missouri	uri Divisio e Company	أجماعهم وتنابل ويستعبد والمتعين والمتعين والمتعاوي والمتعاد والمتعاد والمتعاد والمتعاد والمتعاد

### Access Services Tariff Section 7 Original Sheet-27

Public Survey

#### ACCESS SERVICES

SPECIAL ACCESS SERVICE-(Continued) 7.

DEC 28 (con

- 7.2 Technical Service Descriptions for Special Access Service-(Continued)?
  - 7.2.1 Analog Services-(Continued)
  - Voice Grade Services-(Continued) Β.
    - 3. Voice Grade 3 (VG3) Special Access Service-(Continued)
      - **Optional Features** c.
        - Improved return loss for effective two-wire transmission at the End User's premises.
        - IC specified End User's premises receive level within a range acceptable to the Telephone Company on effective four-wire transmission.
        - Improved return loss at tour applicable to each two-wire leg of effective f - Improved return loss at four-wire point of interface,
      - d. Transmission Performance
        - C-Message Noise

OCT 1 5 1984 PUBLIC SERVICE COMMISSION RΥ

OF MISSOURI

The C-Message noise shall be less than:

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

- Echo Control

Echo Control, identified as Equal Level Echo Path Loss at fourwire interfaces or Return Loss at two-wire interfaces, for both Echo Return Loss and Singing Return Loss, at either the End User's premises or IC terminal location shall be not less . than the following limits: ◎ 砂川 S×83 〒 2 5 3

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

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 3rd Revised Sheet 28 Replacing 2nd Revised Sheet 28

### ACCESS SERVICES

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

7.2 Service Descriptions-(Continued)

7.2.3 Voice Grade Service-(Continued)

### F. Four-Wire/Two-Wire Conversion

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer-designated premises, a four-wire to two-wire conversion is required. The rate for the conversion is included as part of the basic Channel Termination rate.

(FC)

Issued:

February 22, 1990

Effective: March 26, 1990

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 28 Replacing 1st Revised Sheet 28

### ACCESS SERVICES

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7.2 Service Descriptions-(Continued)

SPECIAL ACCESS SERVICE-(Continued)

No supplement to this

tariff will be issued

except for the purpose

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of canceling this tariff.

SEP 2 5 1989

NIESOUNI Public Service Commission

CANCELLED MAR 26 1990 BY 30 SHJS Public Service Commission MISSOURI

FILED Issued: SEP 2 5 1989 Effective: SCT 1 1989 89-14 By R. D. BARRON, President-Missouri DivisionNic Service Commission Southwestern Bell Telephone Company St. Louis, Missouri

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

Access Services Tariff Section 7 1st Revised Sheet 28
Replacing Original Sheet 28
REGEIVED
JUN 2 7 1986
MISSUURI Public Service Commission

### (CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
- 7.2.4 Program Audio Service
- A. Basic Channel Description

A Program Audio channel is a channel measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between a customer designated premises and a Telephone Conf CANCELL pany Hub.

B. Technical Specifications Packages

Technical Specifications	Packages			Ç	OCT 1	1989
		Pac	kage A	P	OCT to	RS#00
Parameter	<u>C(1)</u>	<u>1</u>	<u>2</u>	<u>⇒</u> 301	10 5417 10 10 10	R.S. Herricsion Be Commission
Actual Measured Loss	Х	Х	Х	х	X	
Amplitude Tracking	Х					
Crosstalk	Х	Х	Х	Х	Х	
Distortion Tracking	Х					
Gain/Frequency						
Distortion	Х	Х	Х	Х	Х	
Group Delay	Х					
Noise	Х	Х	Х	Х	Х	
Phase Tracking	Х					
Short-Term Gain						
Stability	Х					
Short-Term Loss	Х					
Total Distortion	Х	Х	Х	Х	X	

The technical specifications are delineated in Technical Reference PUB 62503 and associated Addendum.

C. Channel Interfaces

	By R. D. BARRC	N, President-Missour rn Bell Telephone Co		sion	
Issued	: JUN 27 1986	Effective:	JUL	1 1986	
	e desired parameters are se ailable parameters.	lected by the custom		m the ligt6	. 1986 of 8 4 ce Commission
	The following channel inte available for a Program Au	rfaces (CI's) define dio channel:	the b	andwidthsfill	eter 1

St. Louis, Missouri

D		C		c		Ма		-No		26
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Access Services Tariff

Original Sheet 28

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1.1.1.2.1.81

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) mm/scion
  - 7.2.1 Analog Services-(Continued)
  - B. Voice Grade Services-(Continued)
    - 3. Voice Grade 3 (VG3) Special Access Service-(Continued)
      - d. Transmission Performance-(Continued)
        - Echo Control-(Continued)

Effective Two-Wire Transmission

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

	Echo	Singing
• •	Return Loss	Return Loss
Standard Return Loss		
(at Two-Wire Interface)	5 dB	2.5 dB
Improved Return Loss		
(at Two-Wire Interface)	13 dB	8 dB
Four-Wire Interface	16 dB	11 dB
(Equal Level Echo		
Path Loss)		٩
(For Centrex application,		•
2 dB pad is "in")		

Effective Four-Wire Transmission (Two-wire interface at the End User's premises).

JUL 1 1986	Echo Return Loss	Singing Return Loss	
Two-Wire Interstand C. 28 (Return Loss) PUBLIC SERVICE COMMIS OF MISSOURI	SION		
(Return Loss) PUBLIC OF MISSOUR	24 dB	18 dB	1
· Four-Wire Interface	20 dB	18 dB	
(Equal Level Echo Path Loss)			
-	r 4	JAN - 1 150-	-
	4	UAN - 1 1904 83 - 25.	3
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Issued: DEC 2 9 1983

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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 29 Replacing 1st Revised Sheet 29

### ACCESS SERVICES

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

### 7.2 Service Descriptions-(Continued)

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(RT)

Issued: September

September 25, 1989

Effective: October 1, 1989

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



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	plement to this will be issued		Access Services Taria Section	
	for the purpose celing this tariff.		lst Revised Sheet 2 Replacing Original Sheet 2	
	(CP)	ACCESS SERVICES	REGEIVED	
7. SP	ECIAL ACCESS SERVICE-(Cont	tinued)		
7.2	Service Descriptions-(Cont	tinued)	JUN 27 1986	
7.2.	4 Program Audio Service-	(Continued)	MISSUUKI Public Service Commiss	
с.	Channel Interfaces-(Cont	inued)		
	<u>CI</u>	Bandwi	<u>.dth</u>	
	PG-1		y from 50 to 15000 Hz	
	PG-3 PG-5		ry from 200 to 3500 Hz ry from 100 to 5000 Hz	
	PG-8		ry from 50 to 8000 Hz	
	Compatible channel inters following.	faces are set forth	in Paragraph 7.3.5, D.,	
D.	Optional Features and Fu	nctions	CANCELLED	
	1. Central Office Bridg	ing Capability	<b>1</b> 1989 ·	
	Distribution Amplific	er	BY ARS #29 BY Commission	
	2. Gain Conditioning		BY Commission Service Commission MISSOURI	
	Control of 1004 Hz A		service to 0 dB $\pm$ .05 dB.	
	3. Stereo			
			ized channels for stereo ist be ordered separately.)	
The following table shows the technical specifications packages wi which the optional features and functions are available.				
			with Technical ions Package AP-	
		<u>c 1</u>		
	Central Office Bridging	<b>.</b>		
	Capability Gain Conditioning	X X X X	x x x 1 1986	
	Stereo	X	<b>ົ x86 - 84</b> Public Service Commiss	

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. Access Services Tariff Section 7 Original Sheet 29

#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

DEC 20 mes

Public Stands Commission

- 7.2 Technical Service Descriptions for Special Access Service-(Continued)of
- 7.2.1 Analog Services-(Continued)
- B. Voice Grade Services-(Continued)
  - 3. Voice Grade 3 (VG3) Special Access Service-(Continued)
    - d. Transmission Performance-(Continued)
      - Improved Return Loss

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

Stan	dard RL	Improved R	L
ERL	5 dB	ERL 20 d	B
SRL	2.5 dB	SRL 13.5 d	B

- Loss Variation

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

- Attentuation Distortions

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +3.0 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.

e. Available Facility Interface Combinations

VG3 is available only with specific facility interface combinations as set forth in Paragraph 7.2.1, B., 14, following.



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Access Services Tariff Section 7 2nd Revised Sheet 30 Replacing 1st Revised Sheet 30

### ACCESS SERVICES

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

7.2 Service Descriptions-(Continued)

- 7.2.5 Wideband Analog Service
  - A. Basic Channel Description

A Wideband Analog channel is a channel with a bandwidth measured in kHz for the transmission of a wideband signal. The actual bandwidth is a function of the channel interface selected by the customer. Wideband Analog channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

### **B.** Technical Specifications Packages

			_Pack	age '	WA
Parameter	<u>1</u>	<u>2</u>	<u>2A</u>	<u>3</u>	<u>4</u>
Amplitude Stability	Х	Х			
Background Noise	Х	Х	Х	Х	Х
Frequency Shift	Х	Х	Х		
Gain/Frequency					
Characteristics of:					
-Group Connections	Х			Х	Х
-Supergroup					
Connections		Х			
-Mastergroup					
Connections			Х		
Impulse Noise	Х	Х	Х		
Net Loss Variations	Х	Х	Х	Х	Х
Pilot Slot	Х	Х	Х		
Spurious Single					
Frequency Tone	Х	Х	Х		

(CT)

The technical specifications are delineated in Technical References listed in Paragraph 7.2, preceding.

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August 9, 1991

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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.

(CP)ACCESS SERVICES

- 7. SPECIAL ACCESS SERVICE-(Continued)
- 7.2 Service Descriptions-(Continued)
  - 7.2.5 Wideband Analog Service
  - A. Basic Channel Description

A Wideband Analog channel is a channel with a bandwidth measured in kHz for the transmission of a wideband signal. The actual bandwidth is a function of the channel interface selected by the customer. Wideband Analog channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

B. Technical Specifications Packages

		Pa	ckage W	A-		
Parameter	1	<u>2</u>	<u>2A</u>	<u>3</u>	4	CANCELLED
Amplitude Stability	Х	Х				SEP 3 0 1991
Background Noise	Х	Х	Х	Х	Х	
Frequency Shift	Х	Х	Х			BAJUK B.C. 30
Gain/Frequency					DUL	lic Service Commissica
Characteristics of:					Fub	
-Group Connections	Х			Х	Х	MISSOURI
-Supergroup						
Connections		Х				
-Mastergroup						
Connections			Х			
Impulse Noise	X	Х	Х			
Net Loss Variations	Х	Х	X	Х	Х	
Pilot Slot	Х	Х	Х			
Spurious Single						
Frequency Tone	X	X	Х			

The technical specifications are delineated in Technical Reference PUB 62505 and associated Addendum.



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1 1986

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

Repla	Access Services Tariff Section 7 1st Revised Sheet 30 eing Original Sheet 30- RECEIVED
	JUN 27 1986
	MISSUURI Public Service Commission

Access Services Tariff Section 7 Original Sheet 30

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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)
      - 4. Voice Grade 4 (VG4) Special Access Service

Reserved For Future Use

- 5. Voice Grade 5 (VG5) Special Access Service
  - a. Description

Special Access Service VG5 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an End User's premises. The transmission interface can be either two-wire or four-wire at the End User's premises and the IC terminal location. This service will support effective two-wire or four-wire transmission.

b. Illustrative Applications

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

- Protective Alarm
- DATAPHONE Select-A-Station
- c. Optional Features
  - C-Conditioning
  - Central office bridging capability.
  - Improved return loss at four-wire point of interface, applicable to each twowire leg of effective four-rightannel.

JUL 1 1986 BY LACS. 30 PUBLIC SERVICE COMMISSION OF MISSOURI	5112 513 J85-1258	
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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 31 Replacing 2nd Revised Sheet 31

### ACCESS SERVICES

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

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

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

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

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

D. Optional Features, BSEs and Functions

### 1. Central Office Multiplexing BSE

a. Mastergroup to Supergroup

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

b. Supergroup to Group

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

c. Group to Voice

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

St. Louis, Missouri

March 26, 1993 Effective: April 11, 1993 By A. D. ROBERTSON, Assistant Vice President-External Affairs Southwestern Bell Telephone Company



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Issued:

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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 2nd Revised Sheet 31 Replacing 1st Revised Sheet 31
ACCESS SERVI	CES RECEIVED
7. SPECIAL ACCESS SERVICE-(Continued)	SEP 25 1989
7.2 Service Descriptions-(Continued)	
7.2.5 Wideband Analog Service-(Continued)	Public Service Commission
C. Channel Interfaces	
The following channel interfaces (CI's available for a Wideband Analog channel	
CI	Bandwidth
AH-B AH-C AH-D WD-1 WD-2 WD-3	60 kHz to 108 kHz (Group) 312 kHz to 552 kHz (Supergroup) 564 kHz to 3084 kHz (Mastergroup) 300 Hz to 18 kHz 29 kHz to 44 kHz 28 kHz to 44 kHz
(CT) Compatible channel interfaces are set the end of Paragraph 7.2.	et forth in Technical References at CANCELLED
D. Optional Features and Functions	ADD 11 1993
1. Central Office Multiplexing	MAKS SI
a. Mastergroup to Supergroup	BY <u>Source</u> Commission MISSOURI
An arrangement that converts a Supergroup channels using freq	A Mastergroup channel to ten
b. Supergroup to Group	
An arrangement that converts a Group channels using frequency	
c. Group to Voice	
Grade channels using frequency	a Group channel to twelve Voice y division multiplexing. A chan- rvice to the Hub can also be used
	FILED
Tssued: SEP 2 5 1989 Effec	ctive: DC7 1 1989 0CT 1 1989
By R. D. BARRON, President	-Missouri Division

Southwestern Bell Telephone Company St. Louis, Missouri

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(CP)ACCESS SERVICES

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

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

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

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

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

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

b. Supergroup to Group

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

c. Group to Voice

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

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Section 7

Issued:

JUN 27 1986

Effective: JUL 1 1986

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

Access Services Tariff Section 7 Original Sheet 31

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Public Service Commission

#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
- 7.2.1 Analog Services-(Continued)
- B. Voice Grade Services-(Continued)
  - 5. Voice Grade 5 (VG5) Special Access Service-(Continued)
    - d. Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

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

- Echo Control

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

FILE: GANGELLED JAN - 1 19. JUL 1 1986 (1) Where facility network contributions would be provided. Where the Type Vi manual manual 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

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### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)					
7.2 Service Descriptions-(Continued)					
7.2.5 Wideband Analog Service-(Continued)					
D. Optional Features, BSEs and Functions-(Continued)	)				
1. Central Office Multiplexing BSE-(Continued)					
d. Group to DS1					
An arrangement that converts two Group chan channel using analog to digital conversion.	nnels	s to a	DS1		
0				0	le.
	<u>1</u>	<u>2</u>	<u>2A</u>	<u>3</u>	<u>4</u>
Central Office Multiplexing: -Mastergroup to Supergroup -Supergroup to Group -Group to Voice -Group to DS1(1)	X	X	Х		
	<ul> <li>7.2 Service Descriptions-(Continued)</li> <li>7.2.5 Wideband Analog Service-(Continued)</li> <li>D. Optional Features, BSEs and Functions-(Continued)</li> <li>1. Central Office Multiplexing BSE-(Continued)</li> <li>d. Group to DS1</li> <li>An arrangement that converts two Group charachannel using analog to digital conversion.</li> <li>The following table shows the technical species with which the optional features, BSEs and fulliplexing: <ul> <li>Mastergroup to Supergroup</li> <li>Supergroup to Group</li> <li>Group to Voice</li> </ul> </li> </ul>	<ul> <li>7.2 Service Descriptions-(Continued)</li> <li>7.2.5 Wideband Analog Service-(Continued)</li> <li>D. Optional Features, BSEs and Functions-(Continued)</li> <li>1. Central Office Multiplexing BSE-(Continued)</li> <li>d. Group to DS1</li> <li>An arrangement that converts two Group channels channel using analog to digital conversion.</li> <li>The following table shows the technical specificat with which the optional features, BSEs and function Specification of the statement of the statemen</li></ul>	<ul> <li>7.2 Service Descriptions-(Continued)</li> <li>7.2.5 Wideband Analog Service-(Continued)</li> <li>D. Optional Features, BSEs and Functions-(Continued)</li> <li>1. Central Office Multiplexing BSE-(Continued)</li> <li>d. Group to DS1</li> <li>An arrangement that converts two Group channels to a channel using analog to digital conversion.</li> <li>The following table shows the technical specifications with which the optional features, BSEs and functions a Availa Specific 1 2</li> <li>Central Office Multiplexing:     <ul> <li>Mastergroup to Supergroup</li> <li>Supergroup to Group</li> <li>X</li> <li>Group to Voice</li> </ul> </li> </ul>	<ul> <li>7.2 Service Descriptions-(Continued)</li> <li>7.2.5 Wideband Analog Service-(Continued)</li> <li>D. Optional Features, BSEs and Functions-(Continued)</li> <li>1. Central Office Multiplexing BSE-(Continued)</li> <li>d. Group to DS1</li> <li>An arrangement that converts two Group channels to a DS1 channel using analog to digital conversion.</li> <li>The following table shows the technical specifications packa with which the optional features, BSEs and functions are available with Specifications and the optional features, BSEs and functions are available with which the optional features, BSEs and functions are available with which the optional features, BSEs and functions are available with which the optional features, BSEs and functions are available with specifications are available with the optional features, BSEs and functions are available with specifications are available with specifications are available with the optional features, BSEs and functions are available with specifications are available with the optional features, BSEs and functions are available with specifications are available with sp</li></ul>	<ul> <li>7.2 Service Descriptions-(Continued)</li> <li>7.2.5 Wideband Analog Service-(Continued)</li> <li>D. Optional Features, BSEs and Functions-(Continued)</li> <li>1. Central Office Multiplexing BSE-(Continued)</li> <li>d. Group to DS1</li> <li>An arrangement that converts two Group channels to a DS1 channel using analog to digital conversion.</li> <li>The following table shows the technical specifications packages with which the optional features, BSEs and functions are available with The Specifications Packages</li> <li>1 2 2A 3</li> <li>Central Office Multiplexing: <ul> <li>Mastergroup to Supergroup</li> <li>X</li> <li>Supergroup to Group</li> <li>X</li> </ul> </li> </ul>

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

Issued:	March 26, 1993	Effective:	April 11, 1993	
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	South	western Bell Telepho St. Louis, Missor	1 2	<b>MO PS</b>

Access Services Tariff Section 7 1st Revised Sheet 32 Replacing Original Sheet 32

(CP)ACCESS SERVICES

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

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

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

Available with Technical Specifications Package WA-2 4 1 2A 3 Central Office Multiplexing: CANCELLED -Mastergroup to Supergroup Х -Supergroup to Group Х APR 11 1993 # 32 Х -Group to Voice -Group to DS1(1) Public Service Commission MISSOURI FILED HH 1 86-(1) Requires two channels with technical specifications package WA1. a WA1T service. JUN 27 1986 1 1986 JUL Effective: Issued: By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri



Access Services Tariff Section 7 Original Sheet 32

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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)
  - 5. Voice Grade 5 (VG5) Special Access Service-(Continued)

d. Transmission Performance-(Continued)

- Echo Control-(Continued)

#### Effective Two Wire Transmission

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

	Ecl	ho	Sing	ing
	Return	n Loss	Return	Loss
Standard Two-Wire			•	•
Interface				
(Return Loss)	5	dB	2.5	dB
Four-Wire Interface	16	dB	• 11	dB
(Equal Level Echo Path				
Loss)				

#### Effective Four-Wire Transmission

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

	Echo <u>Return Loss</u>	Singing Return Loss
Two-Wire Interface (Return Loss) Four-Wire Interface (Equal Level Echoppath 1655)	24 dB	18 dB 14 dB
(For Centrex application, 1) 2 db pad is "in") BY A S, PUBLIC SERVICE CO OF MISSO	986 32 DAMMISSION	日、1 章 3/31-1 個目 8 <b>3 - 2 5 3</b>

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 1st Revised Sheet 33 Replacing Original Sheet 33

### (CP)ACCESS SERVICES

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

- 7.2 Service Descriptions-(Continued)
- 7.2.6 Wideband Data Service
- A. Basic Channel Description

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

**B.** Technical Specifications Packages

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

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

C. Channel Interfaces

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

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

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



Access Services Tariff Section 7 Original Sheet 33

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Public Service Commission

#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

- 7.2 Technical Service Descriptions for Special Access Service-(Continued)
- 7.2.1 Analog Services-(Continued)
- B. Voice Grade Services-(Continued)
  - 5. Voice Grade 5 (VGS) Special Access Service-(Continued)
    - d. Transmission Performance-(Continued)
      - Improved Return Loss

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

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

- Loss Variation

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

- Attenuation Distortion

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

- Signal-to-C Notch Noise

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

- Impulse Noise

The number of Gaputs first courts exceeding a targehold 53 of 67 dBrnCO in 15 minutes shall be less than 15. JUL 1 1986

Issued:

DEC 29 1983

PUBLIC SERVICE COMMISSION OF MERCHECTIVE: JAN 0.1 1984

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

### ACCESS SERVICES

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

7.2 Service Descriptions-(Continued)

7.2.6 Wideband Data Service-(Continued)

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

### (AT) D. Optional Features, BSEs and Functions

1. Key Activated Transfer Arrangement

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

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

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

(AT)

Issued:

March 26, 1993

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



No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose 2nd Revised Sheet 34 Replacing 1st Revised Sheet 34 of canceling this tariff. ACCESS SERVICES RECEIVED 7. SPECIAL ACCESS SERVICE-(Continued) SEP 2 5 1989 7.2 Service Descriptions-(Continued) A. H. C. F. 7.2.6 Wideband Data Service-(Continued) Public Service Commission (CT)Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2. D. Optional Features and Functions 1. Key Activated Transfer Arrangement An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer-a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A key activated control service is required to operate the transfer arrangement. A spare line, if required, is not included as a part of the option. The following table shows the technical specifications packages with which the optional features and functions are available. Available with Technical Specifications Package WD-1 2 3 Key Activated Transfer Х Arrangement Х Х CANCELLED APR 11 1993 # BY 3 N. R. S. 34 Public Service Commission MISSOURI FILED Effective: 0CT 1 1989 0CT 1 1989 SEP 2 5 1989 [ssued: By R. D. BARRON, President-Missouri Divisionlic Service Commission Southwestern Bell Telephone Company

St. Louis, Missouri
No supplement to this tariff will be issued except for the purpose of canceling this tariff.

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

- 7.2 Service Descriptions-(Continued)
- 7.2.6 Wideband Data Service-(Continued)

Access Services Tariff Section 7 Ist Revised Sheet 34 Replacing Original Sheet 34 RECEIVED JUN 2 7 1986 MISSUUKI Public Service Commission in Paragraph 7.3.5, F.

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

D. Optional Features and Functions

1. Key Activated Transfer Arrangement

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

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



No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 Original Sheet 34 DEC 20 1003

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

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

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

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

b. Illustrative Applications

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

- Private Line Data Circuit - Control/Remote Metering

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JUL 1 1986 BY ARS34 PUBLIC SERVICE COMMISSION OF MISSOURI	83-258 2019: Sarviss Com

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

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

No Supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 7th Revised Sheet 35 Replacing 6th Revised Sheet 35

# ACCESS SERVICES

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

- 7.2 Service Descriptions-(Continued)
  - 7.2.7 MegaLink Data Service
    - A. Basic Channel Description

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

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

This service is classified as competitive.

B. Technical Specifications Packages

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

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

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

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

Issued: February 20, 2002

Effective: March 29, 2002

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

(CT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 6th Revised Sheet 35 Replacing 5th Revised Sheet 35

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE - (Continued)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service

Public Service Commission MISSOURI

MO. PUBLIC SERVICE COMM.

**JAN -** 9 1995

A. Basic Channel Description

(AT) (AT)

(AT)

(AT)

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

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

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

B. Technical Specifications Packages

(TA)	Parameter	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
(AT)	Brror-Free Seconds	x	х	x	x	x	х

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

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

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

Issued: JAN 0 9 1995 By HORACE WILKINS, JR., President-Missouri Southwestern Bell Telephone St. Louis, Missouri FEB - 9 1995

> MISSOURI Public Service Commission

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

## ACCESS SERVICES

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

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MISSOURI Public Service Commission

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A. Basic Channel Description

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

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

This service was classified as transitionally competitive efective CANCELLED

B. Technical Specifications Packages

		Packag	e DA-	FEB 9-1995 ノエ R.S#35
Parameter	<u>1</u>	<u>2</u>	<u>3</u>	Public Service Commission MISSOURI
Error-Free Seconds	Х	Х	х	X

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

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



Issued: OCT 0 1 1992

Effective: JAN 1 0 1993

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

LT ) (AT)

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

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

ACCESS SERVICES

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

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7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service

A. Basic Channel Description

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

It is the responsibility of the customer to provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the MegaLink Data Channel at the customer press JAN 101993

B. Technical Specifications Packages

Parameter	<u>1</u>	<u>2</u>	<u>3</u>	4
Error-Free Seconds	х	х	х	Х

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

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



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(CT) (CT)

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Issued: AUG 0 9 1991

Effective: SEP 3.0 1001 SEP 3.0 1991 By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company Public Service Commission St. Louis, Missouri

Package DA-

MISSOURI Public Service Commission

No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose 3rd Revised Sheet 35 of canceling this tariff. Replacing 2nd Revised Sheet 35 ACCESS SERVICES RECEILO SPECIAL ACCESS SERVICE-(Continued) 7. SEP 2 5 1989 7.2 Service Descriptions-(Continued) ALESCHEL 7.2.7 MegaLink Data Service (CT)Public Service Commission A. Basic Channel Description (CT)A MegaLink Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6 or 56.0 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities (CP)to the customer in the received bit stream. MegaLink Data channels are provided between customer designated premises for two point service or between a customer designated premises and a Telephone Company digital hub for multipoint or multiplexed service. It is the responsibility of the customer to provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment (CT) associated with the MegaLink Data Channel at the customer premises. The interim program for interconnection of such equipment is set forth in ED Technical Reference PUB AS No. 1. SEP 3 0 1991 B. Technical Specifications Packages Package DAY 4Th R. Public Service Commission MIGSOURI Parameter 2 1 Error-Free Seconds X Х Х Х The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875 percent error-free seconds (if provided through a Digital Data Hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical Reference PUB 62310.

(("E)

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

Issued: SEP 2 5 1989 By R. D. BARRON, President-Missouri Division St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 2nd Revised Sheet 35 Replacing 1st Revised Sheet 35

#### ACCESS SERVICES

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JUN 22 1988

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**Public Service Commission** 

SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 Digital Data Service

A. Basic Channel Description

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

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

B. Technical Specifications Packages ELLED

	OCT 1 1989		Pack	age DA-	
	UU 10+ - +34	2			
Parameter	BUSING COTINI	Spion	2	3	4
Error-Free Seconds	MISEUUM	X	x	х	Х

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

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



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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)
- 7.2 Service Descriptions-(Continued)

7.2.7 Digital Data Service

A. Basic Channel Description

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

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

B. Technical Specifications Packages

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

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

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

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Issued:	JUN 27 1986	PUOLO MISSOURIE Effective:	JUL 1 1986
	-	BARRON, President-Missouri western Bell Telephone Comp	

St. Louis, Missouri



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

d. Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

	Limit (dBrnCO)(1)			
<u>Channel Mileage (mi)</u>	Type Vl Type V2			
0 - 50	32 38			
51 - 100	33 3 <del>9</del>			
101 - 200	35 41			
201 - 400	37 43			
401 - 1000	39 45			



SERVICE COMMISSION

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UAN 71 (SUA 83-253

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

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

By R. D. BARRON, Vice President-Missouri Southwestern Bell Telephone Company St. Louis, Missouri No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff Section 7 6th Revised Sheet 36 Replacing 5th Revised Sheet 36

# ACCESS SERVICES

# 7. SPECIAL ACCESS SERVICE-(Continued)

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

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

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

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

D. Service to Service Through Connect Arrangement

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

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

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

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



(AT)

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

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

# ACCESS SERVICES

<ol> <li>SPECIAL ACCESS SERVICE-(Continued)</li> </ol>	RECEN
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7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service-(Continued)

C. Channel Interfaces

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

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

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

D. Service to Service Through Connect Arrangement

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

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(AT) Ε. Optional Features, BSEs and Functions

1. Central Office Bridging BSE Capability

2. Transfer Arrangement

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

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

Issued: · MAR 2 6 1993 **Effective:** 

APR 1 FINED

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

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

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ACCESS SERVICES

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By R. D. BARRON, President- Southwestern Bell Telep	

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St. Louis, Missouri Public Service Commission

Replacing 3rd Revised Sheet 36 RECEIVED

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MISSOURI Public Service Commission

4th Revised Sheet 36

Section 7

Access Services Tariff

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service-(Continued)

C. Channel Interfaces

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

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

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

D. Service to Service Through Connect Arrangement

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

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1. Central Office Bridging Capability

2. Transfer Arrangement

E. Optional Features and Functions

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

Issued: FEB





No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose 3rd Revised Sheet 36 of canceling this tariff. Replacing 2nd Revised Sheet 36 ACCESS SERVICES RECEVED 7. SPECIAL ACCESS SERVICE-(Continued) SEP 2 5 1989 7.2 Service Descriptions-(Continued) Ausschurt (CT) 7.2.7 MegaLink Data Service-(Continued) Public Service Commission C. Channel Interfaces The following channel interfaces (CI's) define the bit rates that are available for a Digital Data channel: CI Bit Rate DU = 242.4 kbps DU-48 4.8 kbps DU-96 9.6 kbps DU-56 56.0 kbps (CT) Compatible channel interfaces are set forth in Technical References at the end of Paragraph 7.2. D. **Optional Features and Functions** 1. Central Office Bridging Capability 2. Transfer Arrangement An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a lxN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company-designated Hub. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as CANCELLED MAR 26 390 EY 49 P.S.H 36 a part of the option. PUS MISSOURI

Issued: SEP 2 5 1989

<sup>1989</sup>OCT 1 1989 By R. D. BARRON, President-Missouri Division 89 - 14 Southwestern Bell Telephone Company Public Service Commission. St. Louis, Missouri

Effective:

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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 2nd Revised Sheet 36 Replacing 1st Revised Sheet 36

#### ACCESS SERVICES

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

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

<u>CI</u>	<u>Bit Rate</u>	1 1089
DU-24	2.4 kbps	OCT 1 1989 BY 325 R S. #36
DU-48	4.8 kbps	BYJ
DU-96	9.6 kbps	- Lus Convice Couloman
DU-56	56.0 kbps	MISSOUR

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

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

(MT)

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

(MT) Issued: SEP 18 1987 By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri Public Service Commission

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SEP 17 1987

MISSOURI Public Service Commission

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

(CP)ACCESS SERVICES

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



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

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

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

D. Optional Features and Functions

1. Central Office Bridging Capability

ty BY 2 M S. 7736 Public Service Commission MISSOURI

OCT 12 1987

2. Transfer Arrangement

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

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

				Technical Package D	
	Central Office Bridging	1	2	3	FILED
	Capability	Х	Х	X	X14 1 4000
	Transfer Arrangement	Х	Х	X	<u>款世</u> 1 1986
	2				86-84
	······································			Pun'i	r Service Commission
Issued:	JUN 27 1986	Effective:	JUL	1 1986	230° 2012 3 2 <b>40 2022 2022 2022 2022</b>
	BUR D BARRON	President-Misso	uri Divi	ision	

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

No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 Original Sheet 36  $\int_{-1}^{1/2} \left( \widehat{r} \right) \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \int_{-1}^{1/2} \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| \widehat{\zeta} \right| \left| 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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)
    - 6. Voice Grade 6 (VG6) Special Access Service-(Continued)
      - d. Transmission Performance-(Continued)
        - Improved Return Loss

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

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

- Loss Variation

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

- Attenuation Distortions

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

- Signal-to-C Notch Noise

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

- Envelope Delay Distortion

- Impulse Noise BY M(L.). DP J/L!! I 150" PUBLIC SERVICE COMMISSION 83-253 The number of impulse noise counts exceeding a threshold "2017.5510" of 67 dBrnCO in 15 minutes shall be less than 15.

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984

By R. D. BARRON, Vice President-Missouri Southwestern Bell Telephone Company St. Louis, Missouri 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 Service Descriptions-(Continued)
- 7.2.7 MegaLink Data Service-(Continued)
  - E. Optional Features, BSEs and Functions (Continued)
    - 3. Secondary Channel Capability BSE

Secondary Channel capability provides for an additional low-speed digital transmission channel within the existing 2.4, 4.8, 9.6, 19.2 and 56.0 kbps primary channels. It is available as a point-to-point or a multipoint service utilizing a nonrepeated channel termination. The Secondary Channel can be used as a communications channel for the controlling and monitoring of a customer's network.

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

	Available with Technical Specifications Package DA-					
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
entral Office Bridging Capability	Х	Х	Х	Х	Х	
Fransfer Arrangement Secondary Channel	Х	Х	Х	Х	Х	Х
apability	Х	Х	Х	Х	Х	

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Issued:	January 9, 1995	Effective:	February 9, 1995
	By HORACI	E WILKINS, JR., Pres	ident-Missouri



By HORACE WILKINS, JR., President-Missour Southwestern Bell Telephone St. Louis, Missouri No supplement to this tariff will be issued except for the purpose canceling this tariff. Access Services Tariff Section 7 3rd Revised Sheet 36.01 Replacing 2nd Revised Sheet 36.01

## ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service-(Continued)

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

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MAR 29 1993

F) 3. Secondary Channel Capability BSE

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

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

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

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

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

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Issued: MAR 2 6 1993

Effective:

APR 1 1 1993

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

No supplement to this tariff will be issued except for the purpose canceling this tariff. Access Services Tariff Section 7 2nd Revised Sheet 36.01 Replacing 1st Revised Sheet 36.01

### ACCESS SERVICES

7.	SPECIAL	ACCESS	SERVICE-(Continued)	

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service-(Continued)

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

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# 3. Secondary Channel Capability

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

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

	Available with Technical Specifications Package I			
		2	<u>3</u>	4
Central Office Bridging Capability	X	x	x	x
Transfer Arrangement Secondary Channel	X	X	X	X
Capability	X	X	x	x





Issued: FEB 2 2 1990

Effective: MAR 2 6 1990

FILED MAR 26 1990

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

Public Service Commission

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

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

# ACCESS SERVICES

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# 7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(CT) 7.2.7 MegaLink Data Service-(Continued)

D. Optional Features and Functions (Continued)

3. Secondary Channel Capability

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

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

			Technical Package DA-	
	<u>1</u>	2	3	4
Central Office Bridging	T.	V		.,
Capability Transfer Arrangement	X	X X	x x	X X
Secondary Channel Capability	x	X	x	X



OCT 1 1989 JOT 1 Issued: SEP 2 5 .589 Effective: 1989 89 - 14 By R. D. BARRON, President-Missouri Division Division Southwestern Bell Telephone Company

St. Louis, Missouri

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MECCINI Public Service Commission

No supplement to this Access Services Tariff tariff will be issued Section 7 except for the purpose Original Sheet 36.01 canceling this tariff. ACCESS SERVICES RECEIVED 7. SPECIAL ACCESS SERVICE-(Continued) SEP 17 1987 7.2 Service Descriptions-(Continued) MISSOURI 7.2.7 Digital Data Service-(Continued) Public Service Commissic: Optional Features and Functions (Continued) D. (NR) Secondary Channel Capability 3. Secondary Channel capability provides for an additional low-speed digital transmission channel within the existing 2.4, 4.8, 9.6, and 56.0 kbps primary channels. It is available as a point-to-point or a multipoint service utilizing a nonrepeated channel termination. The Secondary Channel can be used as a communications channel for the controlling (NR) and monitoring of a customer's network. (MT) The following table shows the technical specifications packages with which the optional features and functions are available. Available with Technical Specifications Package DA-2 3 4 1 Central Office Bridging Capability Х Х Х Х Transfer Arrangement Х Х (MT) Х Х Secondary Channel (AT) Capability Х x Х Х



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

Public Service Commission

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

Filed

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

(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

Missouri Public

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Service Commission

# ACCESS SERVICES

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

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, 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-

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High Capacity Service is classified as competitive.

B. Technical Specifications Packages

Parameters

Issued: February 20, 2002

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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(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.

Effective: March 22, 2002

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By JAN NEWTON, President-Missouri Missouri Southwestern Bell Telephone, L.P., d/b/a Southwestern Bell Telephone Company St. Louis, Missouri Ell ED MAD 9 0 2002

FILED MAR 2 9 2002

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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 9th Revised Sheet 37 Replacing 8th Revised Sheet 37

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SPECIAL ACCESS SERVICE-(Continued) 7.

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service

A. Basic Channel Description

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

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

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

Β. Technical Specifications Packages

Parameters

Error-Free Seconds

Package HC-0 3 1 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 Terephone Company designated Hubs. The customer must provide system and assignment data.

Issued: AUG 2 6 1994 Effective: SEP 9 & 1002EP 26 1994 By M. H. SCHULTEIS, Executive Director-External Affairs Southwestern Bell Telephone MISSOURI St. Louis, Missouri Public Service Commission

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

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service

MISSOURI Public Service Commission

SEP 27 1993

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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.

B. Technical Specifications Packages Package HC-<u>Package HC-</u> <u>Parameters</u> Error-Free Seconds CANCELLED <u>Package HC-</u> <u>Package HC-</u> <u>CANCELLED</u> <u>Package HC-</u> ckage HC-</u> <u>Package HC-</u> <u>Package HC-<u>Package HC-</u> <u>Package HC-</u> <u>Package HC-</u> <u>Package HC-<u>Package HC-</u> <u>Package HC-</u> <u>Package HC-</u> <u>Package HC-<u>Package HC-</u> <u>Package HC-</u> <u>Package HC-<u>Package HC-</u> <u>Package HC-<u>Package HC-</u> <u>Package HC-<u>Package HC-<u>Package HC-</u> <u>Package HC</u></u></u></u></u></u></u></u></u>

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 Tellephone Company designated Hubs. The customer must provide system and channel assignment data.

Issued: AUG 2 7 1993

Effective: SEP 2 7 1993

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

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

ACCESS SERVICES

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

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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Package HC

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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.

 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 \_\_\_\_\_Effective: JAN 1 0 1993 FILED By A. D. ROBERTSON, Assistant Vice President-External AffairsJAN 10 1993 Southwestern Bell Telephone Company 93-116 St. Louis, Missouri 93-116



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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 6th Revised Sheet 37 Replacing 5th Revised Sheet 37

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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, or Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission.

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

B. Technical Specifications Packages

 Package HC 

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 1
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 2
 3
 4

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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 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 SEP 3 0 1991

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No supplement to this Access Services Tariff tariff will be issued Section 7 5th Revised Sheet 37 except for the purpose of canceling this tariff. Replacing 4th Revised Sheet 37 ACCESS SERVICES RECEIVED 7. SPECIAL ACCESS SERVICE-(Continued) MAY 29 1991 7.2 Service Descriptions-(Continued) MISSOUR! 7.2.8 High Capacity Service **Public Service Commission** A. Basic Channel Description

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

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

B. Technical Specifications Packages

			Package HC-
	<u>0</u>	1	$\frac{10}{2} \xrightarrow{\text{SEP 3 0 1991}} \frac{10}{2} \times \frac{10}{10} \times \frac$
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.

 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 FI

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ANDELLE

By R. D. BARRON, President-Missouri Division AUG 5 1991 Southwestern Bell Telephone Company St. Louis, Missouri : ublic 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 37 Replacing 3rd Revised Sheet 37

### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

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7.2.8 Bigh 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

		·····	Packag	e HC-		
Parameters	<u>0</u>	<u>1</u>	<u>1C</u>	<u>2</u>	<u>3</u>	<u>4</u>
Error-Free Seconds		x				

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

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AUG 2 1991 BY STARS # 37

(1) Available only as a channel of a 1.544 Mbps facility between for viete from enission (RT) Company designated hubs. The customer must provide system and MissoelJR assignment data.

Issued: FEB 2 2 1990

Effective: MAR 2 6 1990

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

MAR 26 1990

Public Service Commission

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#### 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	1	<u>1C</u>	2	<u>3</u>	<u>4</u>		
Error-Free Seconds		X						

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

MAR 26 1990 BY 40 A S # 31 Public Service Commission MISSOURI



(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.

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Issued: 0EP 2 5 1989

BCT 1 1989<sup>0</sup> CT 1 - 1989 Effective:

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

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

## ACCESS SERVICES

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

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

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MISSOURI Public Service Commission

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

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

	CANCELLED		Packag	e HC-		
Demonstration	BY 300 RS.#30 BY 300 RS.#30 BY 300 RS.#30 BY 300 RS. BY 300 RS. BY 300 RS. BY 300 RS.	1. <u>1</u> Ission	<u>1C</u>	2	3	4
Error-Free Seco	Diblic Service (1)	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 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.



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Access Services Tari	ff
Section	ı 7
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

			Packag	ge HC-		
Parameters	<u>0</u>	<u><u></u><u></u></u>	<u>1C</u>	2	<u>3</u>	<u>4</u>
Error-Free Seconds		x				

A channel with technical specifications package HCl will be capable of an error-free second performance of 98.75 percent over a continuous 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 Technicar Peference PUB 62411.



(1) Available only as a channed worth a 10544 Mbps facility between two Teles 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:

JUN 27 1986

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Effective: JUL

1 1986

By R. D. BARRON, President-Missouri Division Southwestern Bell Telephone Company St. Louis, Missouri No supplement to this tariff will be issued except for the purpose of canceling this tariff. Access Services Tariff Section 7 Original Sheet 37

## ACCESS SERVICES

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- 7. SPECIAL ACCESS SERVICE-(Continued)
  - 7.2 Technical Service Descriptions for Special Access Service-(Continued)
  - 7.2.1 Analog Services-(Continued)
    - 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 (SEL JUL 1 1986 83-253 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 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 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)
)		
	DS-44	44.736 Mbps (DS3)

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

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

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

2. Multiplexed Service Arrangement

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

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

	September 27, 1993	Effective:	August 27, 1993	Issued:
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	ompany	outhwestern Bell Telephone C	Southy	
		St. Louis, Missouri		



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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 5th Revised Sheet 38 Replacing 4th Revised Sheet 38

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### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

C. Channel Interfaces

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

OT

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

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

D. Service to Service Through Connect Arrangement

1. High Capacity Service Arrangement

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

2. Multiplexed Service Arrangement

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

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SEP 25 1993 BY 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 Hbps facility to a Telephone Company Hub.

Issued: FEB 2 2 1990

Effective: MAR 2 6 1990

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

MAR 26 1990

Public Service Commission

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MISSOURI 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-(Continued)
- C. Channel Interfaces

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

Bi
1.544 274.17 3.152 44.736 6.312
274.17
44.736 6.312

- (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.

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

Effective: 007 1 1989 By R. D. BARRON, President-Missouri Division ublic Service Commission Southwestern Bell Telephone Company St. Louis, Missouri

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Bit Rate

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

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 forth in Faragraph 7.3.5, H., following. OCT 1 1989 BY42 RS # 38

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

Automatic Loop Transfer BY COMUSSION 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

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(CP)

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: State A Effective: JUN 2 2 1988 By R. D. BARRON, President-Missouri Division FILED Southwestern Bell Telephone Company JUL 8 1988 St. Louis, Missouri F8- 2.87 Public Service Commissia

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MISSOURI Public Service Commission

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

(CP)ACCESS SERVICES

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

The following channel interfaces (CI's) define the Bublic Service Commission available for a High Capacity channel:

CI	Bit Rate	
DS-15(1)		CANCELLED
DS-27 DS-31	274.176 Mbps (DS4) 3.152 Mbps (DS1C)	1988
DS-44	44.736 Mbps (DS3)	JUL 8 1988 BY 32 P. S. FT 38 Commission
DS-53	6.312 Mbps (DS2)	BY 37 K Struission
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Access Services Tariff

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2nd Revised Sheet 38

Section 7

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Compatible channel interfaces are set forth in Paraghaph 7.3,5590,181 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

JUN 27 1986

Issued:

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 ava	ilable	as a	channel(s)	of a	a 1 544	Mbps facility	
	to a Telepho	one Compa	ny Hub	).					86-84	

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# ACCESS SERVICES

7.	. 8	PECIAL	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)
    - a. Description-(Continued)

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

b. Illustrative Applications

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

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



# Access Services Tariff Section 7 Original Sheet 38

# ACCESS SERVICES

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- 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)
        - Description-(Continued) а.

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

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- Improved return loss for effective two-wire/UBLIC SERVICE COMMISSION transmission at the End User's active two-wire/UBLIC SERVICE COMMISSION
- 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.

Issued:

DEC 2 9 1983

JAN 0 1 1984 Effective:

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)

August 27, 1993 Issued:

a. DS3 to DS1

Effective: September 27, 1993

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

An arrangement that converts a 44.736 Mbps channel to 28 DS1

channels using digital time division multiplexing.



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) E. Optional Features, BSEs and Functions

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MISSOURI Public Service Commission

(AT) 1. Automatic Loop Transfer BSE

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

2. Transfer Arrangement

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

- (AT) 3. Central Office Multiplexing BSE
  - a.

An arrangement that converts a 274.176 Mbps channels  $\frac{74}{100}RS^{\#}39$ 168 DS1 channels using digital time division 168 DS1 channels using digital time division multiplex MISSOURI

b. DS3 to DS1

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

c. DS2 to DS1

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

Issued: MAR 2 6 1993

**Effective:** 

SEP 25 1993

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

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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 39 Replacing 3rd Revised Sheet 39

#### ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

MISSOURI Public Service Commission

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(FC) E. Optional Features and Functions

1. Automatic Loop Transfer

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

2. Transfer Arrangement

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

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

APR 11 1993 BY  $5^{\frac{11}{5}}R.S^{\frac{4}{5}}39$ 

An arrangement that converts a 274.176 Mbps chamatic Service Commission 168 DS1 channels using digital time division multiplexiMSSOURI

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.

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Issued: FEB 2 2 1990

Bffective: MAR 2 6 1990

FILED

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

Public Service Commissie

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# 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
    - a. DS4 to DS1

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.

DSIC to DS1 d.

> 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. DSl to DSO

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[ssued:

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

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Public Service Commission DCT. Effective: 1 1980

(CT) (RT)

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

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

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# ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

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7.2.8 High Capacity Service-(Continued)

CANCELLED MISSOURI Public Service Commission

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

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

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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 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 Public Service Commission

Issued: OCT 1 4 1987

Effective: OCT 16 1987.

(AT)

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

(CP)ACCESS SERVICES

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

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

b. DS3 to DS1

An arrangement that coverts a 44.736 Mbps channel to 28 DSIELLED channels using digital time division multiplexing. CANCELLED OCT 16 1987

c. DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to for the state of DSI channels using digital time division multiplexing. Service Commission DSIC to DSI

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.-JJ ( 1986 86-84 SERVICE JOINTINISSION JUL -1-1986 Issued: no of 200 Effective:

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Access Services Tariff Section 7 Original Sheet 39

# 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:

<u>Limit (d</u>	BrnCO)(1)
Type V1	Type V2
32	38
33	39
35	41
37	43
39	45
	<u>Type V1</u> 32 33 35 37

- Echo Control

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

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

Issued: DEC 2 9 1983

Effective: JAN 0 1 1984