

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.

<u>Telephone Company Names</u>	<u>Generic Name of ONA Service</u>
Automatic Loop Transfer	Automatic Protection Switching
Bridging	Bridging
- Central Office Bridging Capability	
- Telegraph Bridging	
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	
Secondary Channel Capability	Secondary Channel Capability

(AT)

(MT)

Issued: March 26, 1993

Effective: April 11, 1993

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

**FILED**  
**MO PSC**

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except for the purpose  
of canceling this tariff

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

## 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

(T) 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. #1

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.

DEC 4 1992

Issued: **OCT - 5 1992**

Effective: **DEC - 4 1992**

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 1  
Replacing 3rd Revised Sheet 1

## ACCESS SERVICES

MAY 29 1991

## 7. SPECIAL ACCESS SERVICE

MISSOURI

Public Service Commission

## 7.1 General

- (AT) Special Access Service with the exception of the WATS Access Line and  
(AT) Network Reconfiguration Service, provides a transmission path to connect  
(AT) customer (IC) designated premises(1), either directly or through a Telephone  
(AT) Company Hub where bridging, multiplexing or Network Reconfiguration Service  
(AT) functions are performed. The WATS Access Line, offered under Voice Grade  
(AT) Service, provides a transmission path connecting a customer designated  
(AT) premises with the WATS serving office. Network Reconfiguration Service,  
(AT) found in Section 19, following, works in conjunction with Special Access  
(AT) 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

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**

DEC 4 1992

BY 5th R.S.#1Public 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.

Issued: JUN 0 4 1991

Effective: AUG 0 5 1991

FILED

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

AUG 5 1991

Public Service Commission

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

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

ACCESS SERVICES

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OCT 13 1987

7. SPECIAL ACCESS SERVICE

7.1 General

MISSOURI

Public Service Commission

- (AT) Special Access Service with the exception of the WATS Access Line provides a transmission path to connect customer (IC) designated premises(1), either directly or through a Telephone Company Hub where bridging or multiplexing 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. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.
- (AT) |
- (AT)

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

AUG 2 1991

BY H. R. B.

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. FILED

Issued: OCT 14 1987

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

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  
2nd Revised Sheet 1  
Replacing 1st Revised Sheet 1

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE

7.1 General

Special Access Service provides a transmission path to designated premises (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 3213 SL

Public Service Commission  
MISSOURI

FILED

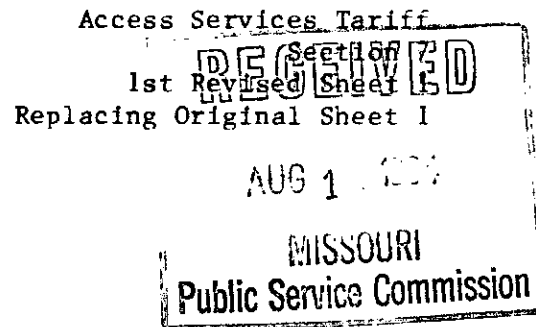
- (1) Telephone Company Centrex CO-like switches and Telephone Company Answering Service concentrators are considered to be customer premises for purposes of administering regulations and rates contained in this Tariff.

Issued: JUN 27 1986

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

## 7. SPECIAL ACCESS SERVICE

## 7.1 General

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.

**CANCELLED**

JUL 1 1986  
BY *gnd* RS #1  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

(1) Telephone Company Centrex CO-like switches are considered to be End Users' premises for purposes of this Tariff.

(CT) (2) The Special Access Service used to provide the connection between an End User's premises and a WATS or WATS-type serving office is only for use with Feature Group C or D Switched Access Service.

Issued: **AUG 15 1984**

Effective:

**OCT 15 1984**

Public Service Commission

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 1

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DEC 29 1983

MISSOURI  
Public Service Commission

## ACCESS SERVICES

### 7. SPECIAL ACCESS SERVICE

#### 7.1 General

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.

CANCELLED

OCT 15 1984

BY 10th RS 1  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

FILED

JAN - 1 1984  
83 - 253

Service Commission

- (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 29 1983

Effective: JAN 01 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  
4th Revised Sheet 1.01  
Replacing 3rd Revised Sheet 1.01

## ACCESS SERVICES

### 7. SPECIAL ACCESS SERVICE

#### 7.1 General

(RT) 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

**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 Revised Sheet 1.01

**RECEIVED**

# ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE

**AUG 26 1994**

### 7.1 General

**MO. PUBLIC SERVICE COMM.**

(AT) 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.

#### 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**

**FEB 02 2003**

**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.

**FILED**  
**SEP 26 1994**

Issued: **AUG 26 1994**

Effective: **SEP 26 1994 MISSOURI**

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

**Public Service Commission**

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

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

## ACCESS SERVICES

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MAY 24 1994

## 7. SPECIAL ACCESS SERVICE

## 7.1 General

MISSOURI

Special Access Service with the exception of the WATS Access Service, 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, works 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. These services are available to meet specific communications requirements.

**CANCELLED**

SEP 26 1994

3rd R.S. #1.01  
Public Service Commission  
MISSOURI  
**FILED**

JUL 15 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.

Issued: MAY 24 1994

Effective: JUN 24 1994

JUL 15 1994

By M. H. SCHULTEIS, Division Manager-Regulatory & Industry Relations  
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 1.01  
Replacing Original Sheet 1.01

## ACCESS SERVICES

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FEB 9 1993

## 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

CT)

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

JUL 15 1994

BY 2nd 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 19 1993

FILED

Issued: FEB 09 1993

Effective:

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

APR 19 1993

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  
Original Sheet 1.01

## ACCESS SERVICES

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MAR 29 1993

## 7. SPECIAL ACCESS SERVICE

MISSOURI

Public Service Commission

## (MT) 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

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 19 1993  
BY 1st R.S. #1.01Public 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.

(MT)

Issued: MAR 26 1993

Effective:

FILED

APR 11 1993

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

APR 11 1993

92-304

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

**FILED**  
**MO PSC**

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.

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

**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.

**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)

(AT)

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

Issued: OCT - 5 1992

Effective: DEC - 4 1992

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

CANCELLED

JUL 15 1994

Public Service Commission

MISSOURI

DEC - 4 1992

NOV - 5 1992

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of canceling this tariff.

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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7.1 General-(Continued)

SEP 25 1989

7.1.1 Channel Types-(Continued)

MISSOURI

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.

CANCELLED

DEC 4 1992

BY 324 R.S. #2

Public Service Commission  
MISSOURI

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.

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

OCT 1 1989

Issued: SEP 25 1989

Effective: OCT 1 1989 89-14  
Public Service Commission

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 2  
Replacing Original Sheet 2

(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 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.

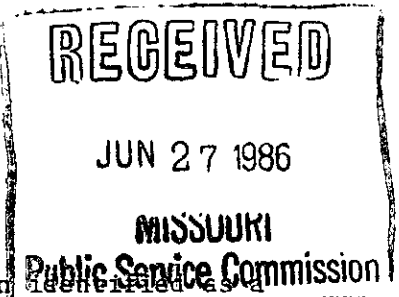
Program Audio - A channel for the transmission of audio signals. The nominal frequency bandwidths are from 50 to 15000 Hz, from 200 to 3500 Hz, from 100 to 5000 Hz or from 50 to 8000 Hz.

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.

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.



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OCT 1 1989

BY gms RS#2

Public Service Commission

MISSOURI

150

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



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Section 7  
Original Sheet 2

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# ACCESS SERVICES

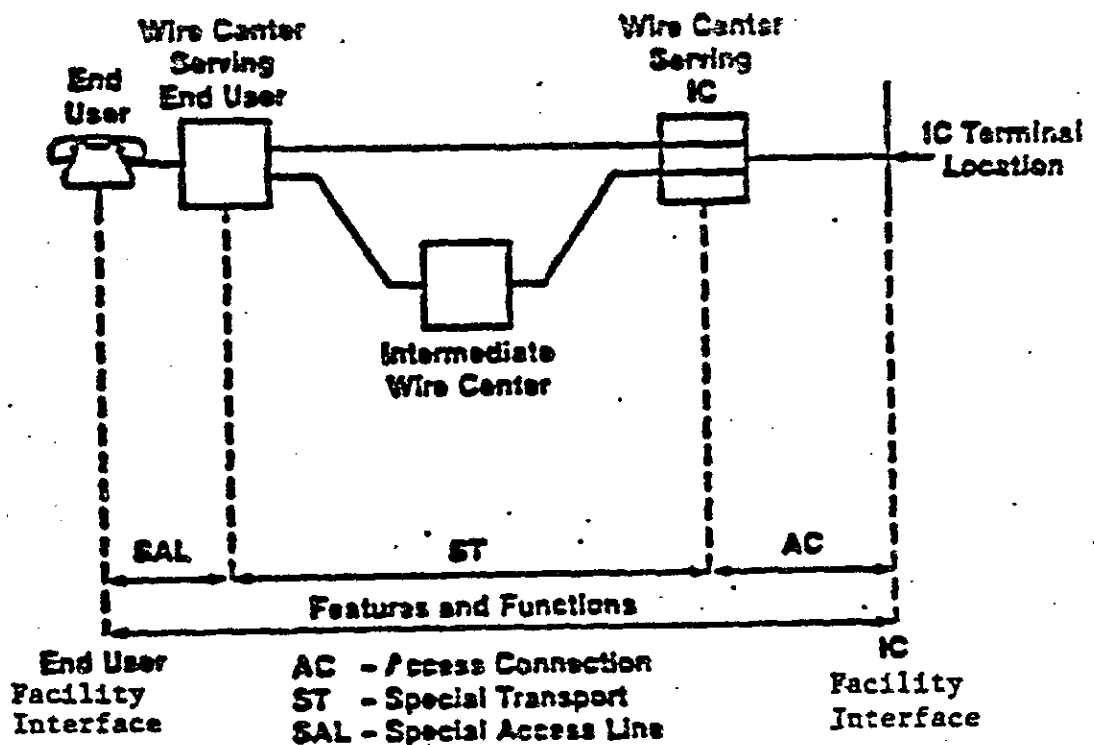
## 7. SPECIAL ACCESS SERVICE-(Continued)

### 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



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JUL 1 1986

BY 1 R.S. #2  
PUBLIC SERVICE COMMISSION  
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JAN - 1 1984

83 - 253

Public Service Commission

Issued: DEC 29 1983

Effective: JAN 01 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  
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)

(RT)

(RT)

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

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Issued: January 10, 1997

Effective: February 10, 1997

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

**FILED**  
**MO PSC**

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Section 7  
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7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

7.1.1 Channel Types-(Continued)

(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.

(AT)

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BY 1st R.S. #2.01  
Public Service Commission  
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APR 19 1993

APR 19 1993

Issued: FEB 09 1993

Effective: ~~MAR 11 1993~~ PUBLIC 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

(AT) Paragraph 7.2, following.

(AT) For example, a customer may order a 3.152 Mbps facility from a customer-designated 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)
- (AT) - Optional Features, BSEs and Functions (described in Paragraph 7.1.2, D., following)

Issued: March 26, 1993

Effective: April 11, 1993

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

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

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## ACCESS SERVICES

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## 7. SPECIAL ACCESS SERVICE-(Continued)

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## 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 customer-designated 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 Voice Grade channels.

## 7.1.2 Rate Categories

APR 11 1993

BY 3<sup>rd</sup> R.S. #3

Public Service Commission  
MISSOURI

(CT) 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)
- (AT) - Service to Service Through Connect Arrangements (described in Paragraph 7.1.2, C., following)
- (FC) - Optional Features and Functions (described in Paragraph 7.1.2, D., following)

Issued: FEB 22 1990

Effective: MAR 26 1990

FILED

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

MAR 26 1990

Public Service Commission

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

Access Services Tariff  
Section 7  
1st Revised Sheet 3  
Replacing Original Sheet 3

(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 customer-designated 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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MAR 26 1990  
BY *gnd* P.S.#3  
Public Service Commission  
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**FILED**  
JUL 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

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

Access Services Tariff  
Section 7  
Original Sheet 3

## ACCESS SERVICES

## 7. 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

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.

## 7.1.2 Facility Interface (FI) Combinations

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

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12 R.S.#3  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

JAN - 1 1984

88-253

Issued: DEC 29 1983

Effective: JAN 01 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  
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.

(CT)

##### 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. SCHULTEIS, Executive Director-External Affairs  
Southwestern Bell Telephone  
St. Louis, Missouri

**FILED**  
**MO PSC**

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



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4th Revised Sheet 4  
Replacing 3rd Revised Sheet 4

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

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## 7.1 General-(Continued)

FEB 14 1991

## 7.1.2 Rate Categories-(Continued)

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## A. Channel Termination

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|  
(AT)

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 co-located in a 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: FEB 15 1991

Effective: MAR 18 1991

FILED

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

MAR 18 1991

Public Service Commission

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

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FEB 20 1990

BY 4<sup>th</sup> R.S.#4  
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## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.1 General-(Continued)

## 7.1.2 Rate Categories-(Continued)

## A. Channel Termination

(FC)

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

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

(AT)

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.

(MT)

Issued: FEB 22 1990

Effective: MAR 26 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 of canceling this tariff.

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Replacing 1st Revised Sheet 4

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## 7. SPECIAL ACCESS SERVICE-(Continued)

OCT 13 1987

## 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 building.

## B. Channel Mileage

(AT)  
(AT)

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 of the service, they will be charged for as a single rate element.

FILED

OCT 16 1987

Issued: OCT 14 1987

Effective: OCT 16 1987

Public Service Commission

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 4  
Replacing Original Sheet 4

(CP)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. 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.

B. Channel Mileage

The Channel Mileage rate category provides for the transmission facilities between the serving wire centers associated with customer designated premises, between a serving wire center associated with customer designated premises and a Telephone Company Hub or between 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.

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OCT 16 1987

BY 28 #4  
Public Service Commission  
MISSOURI

JUL 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

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

Access Services Tariff

Section 7

Original Sheet 4

## ACCESS SERVICES

DEC 29 1983

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.1 General-(Continued)

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## 7.1.2 Facility Interface (FI) Combinations-(Continued)

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 Configurations

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

CANCELLED  
BY R.S.#4  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

JAN - 1 1984  
83 - 253

Issued: DEC 29 1983

Effective: JAN 01 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  
9th Revised Sheet 5  
Replacing 8th Revised Sheet 5

## 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

(RT) A Hub is a Telephone Company designated serving wire center at which bridging, 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

(RT) 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.

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

**Filed**  
**MO PSC**

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

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Section 7  
8th Revised Sheet 5  
Replacing 7th Revised Sheet 5

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## 7. SPECIAL ACCESS SERVICE-(Continued)

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## 7.1 General-(Continued)

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## 7.1.2 Rate Categories-(Continued)

By **94HRS5**  
Public Service Commission  
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## 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

- (AT) A Hub is a Telephone Company designated serving wire center at which bridging, multiplexing, Network Reconfiguration Service or Transport 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, following, or to reterminate Network Reconfiguration Service or Transport 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 Reconfiguration Service and Transport Resource Management Service offerings (AT) allow the customer to reconfigure their Special Access Services. (CT)

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.

FILED

SEP 26 1994

Issued: AUG 26 1994

Effective: SEP 26 1994

MISSOURI

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  
7th Revised Sheet 5  
Replacing 6th Revised Sheet 5

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

7.1.2 Rate Categories-(Continued)

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(AT) D. Optional Features, BSEs and Functions

(AT) 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.

(AT) Examples of Optional Features, BSEs and Functions that are included include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

(C) A Hub is a Telephone Company designated serving wire center at which 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.

(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 P.C.C.

CANCELLED  
SEP 26 1994  
BY 8 R.S. 5  
Public Service Commission  
MISSOURI

FILED

APR 11 1993

92-304

Issued: MAR 26 1993

Effective: APR 11 1993  
MISSOURI PUBLIC SERVICE COMMISSION

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



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

ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

7.1.2 Rate Categories-(Continued)

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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

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APR 11 1993

BY 7th R.S. #5

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A Hub is a Telephone Company designating serving wire center 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. 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.

(AT)

(AT)

(MT)

Issued: **AUG 09 1991**

Effective: **SEP 00 1991**

**FILED**

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

**SEP 30 1991**

**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 5  
Replacing 4th 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:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

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SEP 30 1991

BY 6th R.S. #5

(AT)  
(C)  
(AT)  
(AT)  
(AT)  
(AT)

A Hub is a Telephone Company designating serving wire center at which 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 04 1991

Effective: AUG 05 1991

FILED

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

AUG 5 1991

Public Service Commission

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

Access Services Tariff  
Section 7  
4th Revised Sheet 5  
Replacing 3rd Revised Sheet 5

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

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## 7.1 General-(Continued)

FEB 20 1990

## 7.1.2 Rate Categories-(Continued)

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## (FC) D. Optional Features and Functions

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The Optional Features and Functions rate category provides for optional features and functions which may be added to a Special Access Services 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

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BY S<sup>th</sup> R.S. #5

A Hub is a Telephone Company designated serving wire center where 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

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

Issued: FEB 22 1990

Effective: MAR 26 1990 **FILED**

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

MAR 26 1990

Public Service Commission

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

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

ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

SEP 25 1989

7.1 General-(Continued)

7.1.2 Rate Categories-(Continued)

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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

(RT) 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 Services are provided: two-point service, multipoint service, 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.

CANCELLED

MAR 26 1990  
BY *442 S #5*  
Public Service Commission  
MISSOURI

FILED

OCT 1 1989  
89 - 14  
Public Service Commission

Issued: SEP 25 1989

Effective: OCT 1 1989

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  
2nd Revised Sheet 5  
Replacing 1st Revised Sheet 5

ACCESS SERVICES

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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 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 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.

CANCELLED

OCT 1 1989  
BY 2nd RS #5  
Public Service Commission  
MISSOURI

FILED

OCT 16 1987  
70-87-42  
Public Service Commission

Issued: OCT 14 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.

Access Services Tariff  
Section 7

1st Revised Sheet-5  
Replacing Original Sheet 5

(CP)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 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.

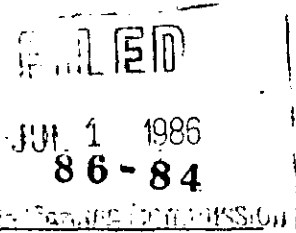
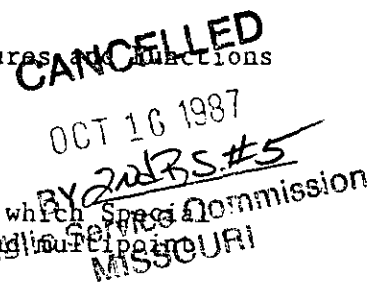
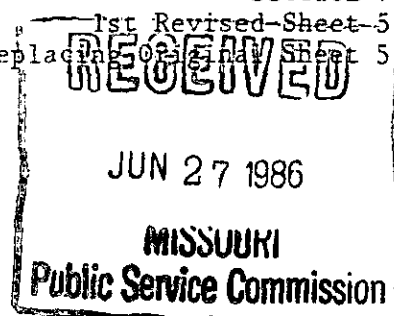
Descriptions for each of the available Optional Features and Functions are set forth in Paragraph 7.2, following.

7.1.3 Service Configurations

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



Issued: JUN 27 1986

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-5

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# ACCESS SERVICES

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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.

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JUL 1 1986  
BY 1st R.S.#5  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

JAN - 1 1984

83-253

Issued: DEC 29 1983

Effective: JAN 01 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  
9th Revised Sheet 6  
Replacing 8th Revised Sheet 6

## 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.

(RT)

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

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

**Filed**  
**MO PSC**



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

ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

AUG 26 1994

7.1 General-(Continued)

MO. PUBLIC SERVICE COMM.

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

(AT)

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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FEB 02 2003  
By *ah*  
Public Service Commission  
MISSOURI

**FILED**

SEP 26 1994

Issued: AUG 26 1994

Effective: SEP 26 1994 MISSOURI  
Public Service Commission

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  
7th Revised Sheet 6  
Replacing 6th Revised Sheet 6

ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

MISSOURI  
Public Service Commission

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:

- (AT)
- 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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SEP 26 1994  
BY 8<sup>TH</sup> R.S. #6  
Public Service Commission  
MISSOURI

FILED

APR 11 1993

92 - 304

MO. PUBLIC SERVICE COMM.

Issued: MAR 26 1993

Effective:

APR 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  
6th Revised Sheet 6  
Replacing 5th Revised Sheet 6

ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

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(MT) 7.1.3 Service Configurations

**Public Service Commission**

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.

(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 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.

**CANCELLED**

APR 11 1993

BY 7th R.S. #6

**Public Service Commission  
MISSOURI**

Issued: **AUG 09 1991**

Effective: **SEP 09 1991**  
**SEP 30 1991**

**FILED**

**SEP 30 1991**

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  
5th Revised Sheet 6  
Replacing 4th Revised Sheet 6

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE--(Continued)

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7.1 General--(Continued)

MAY 29 1991

7.1.3 Service Configurations--(Continued)

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A. Two-Point Service

(AT)  
(AT)

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.

CANCELLED

SEP 30 1991  
BY 6th R.S. #6  
Public Service Commission  
MISSOURI

Issued: JUN 04 1991

Effective: AUG 05 1991

FILED

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

AUG 5 1991

Public Service Commission

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Access Services Tariff  
Section 7  
4th Revised Sheet 6  
Replacing 3rd Revised Sheet 6

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

7.1.3 Service Configurations-(Continued)

(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 Features 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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FEB 20 1990

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AUG 2 1991  
BY 5th R.S.#6  
Public Service Commission  
MISSOURI

Issued: FEB 22 1990

Effective: MAR 26 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  
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Access Services Tariff  
Section 7  
3rd Revised Sheet 6  
Replacing 2nd Revised Sheet 6

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)

(F) In addition, a Special Access Surcharge as set forth in Paragraph 7.3.2,  
(F) and a Message Station Equipment Recovery Charge as set forth in  
(F) 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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MAR 26 1990  
BY 4th R.S.#6  
Public Service Commission  
MISSOURI

FILED

OCT 1 1989

89-14

Issued: SEP 25 1989

Effective: OCT 1 1989

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  
2nd Revised Sheet 6  
Replacing 1st Revised Sheet 6

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

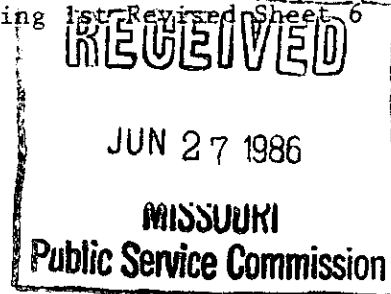
7.1.3 Service Configurations-(Continued)

A. Two-Point Service-(Continued)

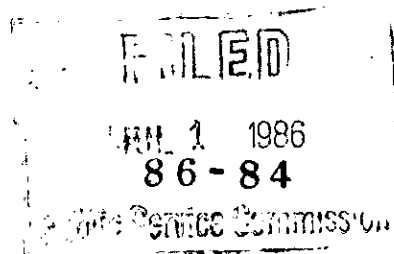
Applicable rate elements are:

- 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.



CANCELLED  
OCT 1 1989  
BY 320 R.S.#6  
Public Service Commission  
MISSOURI



Issued: JUN 27 1986

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  
1st Revised Sheet 6  
Replacing Original Sheet 6

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.

- a. 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 Charge (per End User's premises)
- g. Features and functions
  - VG performance
  - Conditioning

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Public Service Commission

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JUL 1 1986  
BY 2nd B.S.#6  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

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OCT 15 1984

Issued: AUG 15 1984

Effective: OCT 15 1984

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  
Original Sheet 6

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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.

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- a. 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 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.
- e. Special Access Line from the End User's wire center to End User premises (per End User's location).
- f. Special Access Service surcharge (per End User's premises)
- g. Features and functions
  - VG performance
  - Conditioning

OCT 15 1984  
BY 1st PS 6  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

FILED

JAN - 1 1984  
83 - 253

Issued: DEC 29 1983

Effective: JAN 01 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  
1st Revised Sheet 7  
Replacing Original Sheet 7

## ACCESS SERVICES

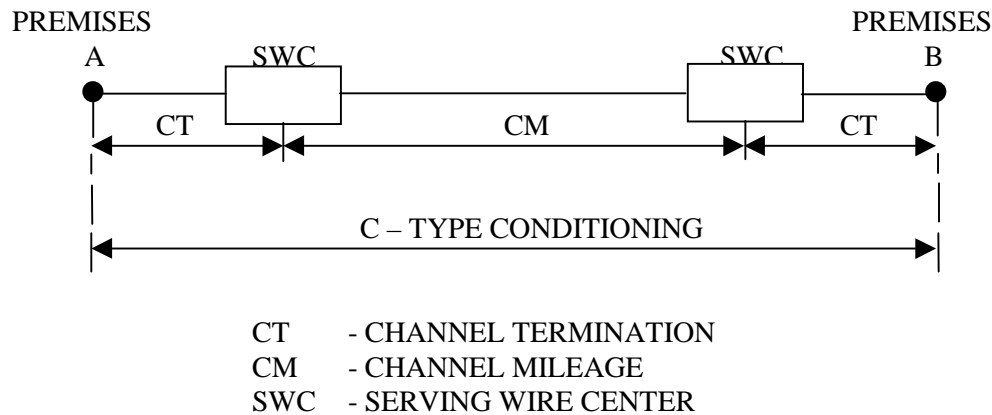
### 7. SPECIAL ACCESS SERVICE-(Continued)

#### 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)

Issued: June 27, 1986

Effective: July 1, 1986

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

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**MO PSC**

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

Access Services Tariff  
Section 7  
Original Sheet 7

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.1 General-(Continued)

## 7.1.4 Service Configurations-(Continued)

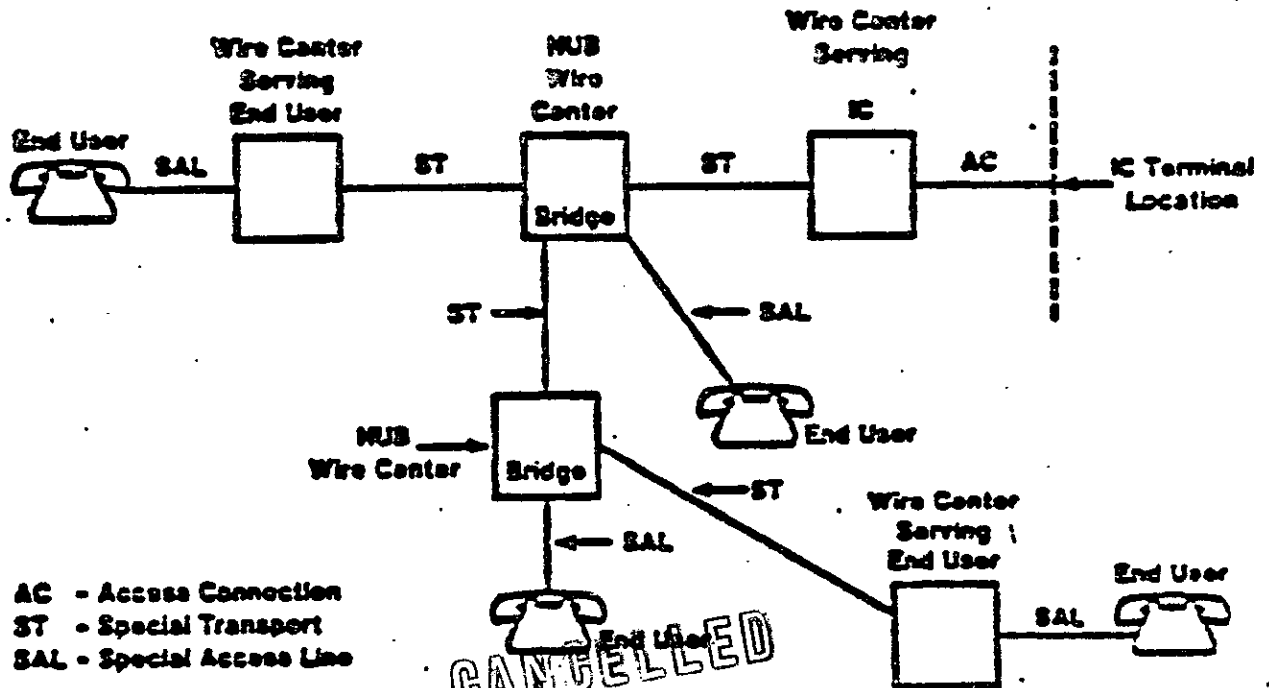
## B. Multipoint Service-(Continued)

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## MULTIPOINT SERVICE CONFIGURATION



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BY RS 7  
PUBLIC SERVICE COMMISSION

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As each additional leg is added to an existing multipoint service, additional Special Transport, an End User's facility Special Access Line and a Special Access Service Surcharge will be charged to the IC as required. If another bridge is connected, additional Special Transport, End User's facility interface(s), Special Access Line(s) and Special Access Service Surcharge will be charged to the IC as required.

Issued: DEC 29 1983

Effective: JAN 01 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  
8th Revised Sheet 8  
Replacing 7th 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.

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.

Issued: March 26, 1993

Effective: April 11, 1993

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

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**MO PSC**

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

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Access Services Tariff  
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Replacing 6th Revised Sheet 8

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7. SPECIAL ACCESS SERVICE-(Continued)

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7.1 General-(Continued)

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7.1.3 Service Configurations-(Continued)

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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.

(AT)

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.

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APR 11 1993

BY 8th R. S. #8

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MISSOURI**

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Issued:

**AUG 0 9 1991**

Effective:

**SEP 0 9 1991**

**SEP 30 1991**

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 of canceling this tariff.

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

ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

FEB 20 1990

7.1 General-(Continued)

MISSOURI

7.1.3 Service Configurations-(Continued)

Public Service Commission

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.

(CT)  
(CT)  
(RT)  
(RT)

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SEP 30 1991

BY 7 R.S. #8

Applicable Rate Elements are:

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- 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)

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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.

(RT)  
(RT)

Issued: FEB 22 1990

Effective: MAR 26 1990

FILED

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

MAR 26 1990

Public Service Commission

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Access Services Tariff  
Section 7  
5th Revised Sheet 8  
Replacing 4th Revised Sheet 8

# ACCESS SERVICES

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

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### 7.1 General--(Continued)

SEP 25 1989

#### 7.1.3 Service Configurations--(Continued)

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#### 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 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:

- 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)

(FC) 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 7.3.4, following, may be applicable.

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CANCELLED  
MAR 26 1990  
BY 6025 #8  
Public Service Commission  
MISSOURI

OCT 1 1989  
89-14

Issued: SEP 25 1989

Effective: OCT 1 1989

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

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

## ACCESS SERVICES

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AUG 15 1988

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.1 General-(Continued)

## 7.1.3 Service Configurations-(Continued)

MISSOURI  
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## 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.

(CT)

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.

(CT)

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
- Addition Optional Features and Functions (when applicable)

(CT)

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

FILED

SEP 14 1988

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

Public Service Commission



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## ACCESS SERVICES

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

## 7.1 General--(Continued)

## 7.1.3 Service Configurations--(Continued)

MISSOURI  
Public Service Commission

## 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.

(CT) When ordering, the customer will specify the desired bridging Hub(s) selected from the appropriate Exchange Carrier Association Tariff filed with the P.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
- 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 7.4.4, following, may be applicable.

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SEP 14 1988  
BY 4th R.S. #8  
Public Service Commission  
MISSOURI

JUL 1 1988  
84-222 et al.  
Public Service Commission

Issued: MAY 2 1988

Effective: JUL 1 1988

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

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

Access Services Tariff  
Section 7  
2nd Revised Sheet 8  
Replacing 1st Revised Sheet 8

(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.

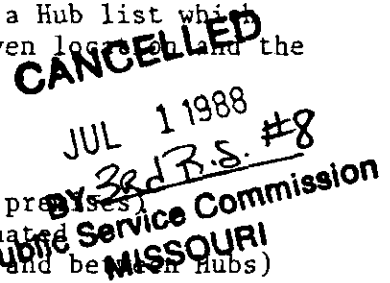
Multipoint service utilizing a customized technical specifications package as set forth in Paragraph 7.2, following, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised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



JUL 1 1986

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

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Access Services Tariff  
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1st Revised Sheet 8  
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## ACCESS SERVICES

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## 7. SPECIAL ACCESS SERVICE-(Continued)

AUG 14 1984

## 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.

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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).

(RT)

## 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:

- For Voice Grade ~~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

**CANCELLED**  
JUL 1 1986  
BY *2nd R.S.#8*  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

FILED

OCT 15 1984

Issued: AUG 15 1984

Effective: OCT 15 1984

Public Service Commission

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

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Access Services Tariff

Section 7

Original Sheet 8

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## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.1 General-(Continued)

## 7.1.5 Alternate Use

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Public Service Commission

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 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 a 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:

- For Voice Grade (VG) 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

83 - 253

Issued: DEC 29 1983

Effective: JAN 01 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  
2nd Revised Sheet 9  
Replacing 1st Revised Sheet 9

## ACCESS SERVICES

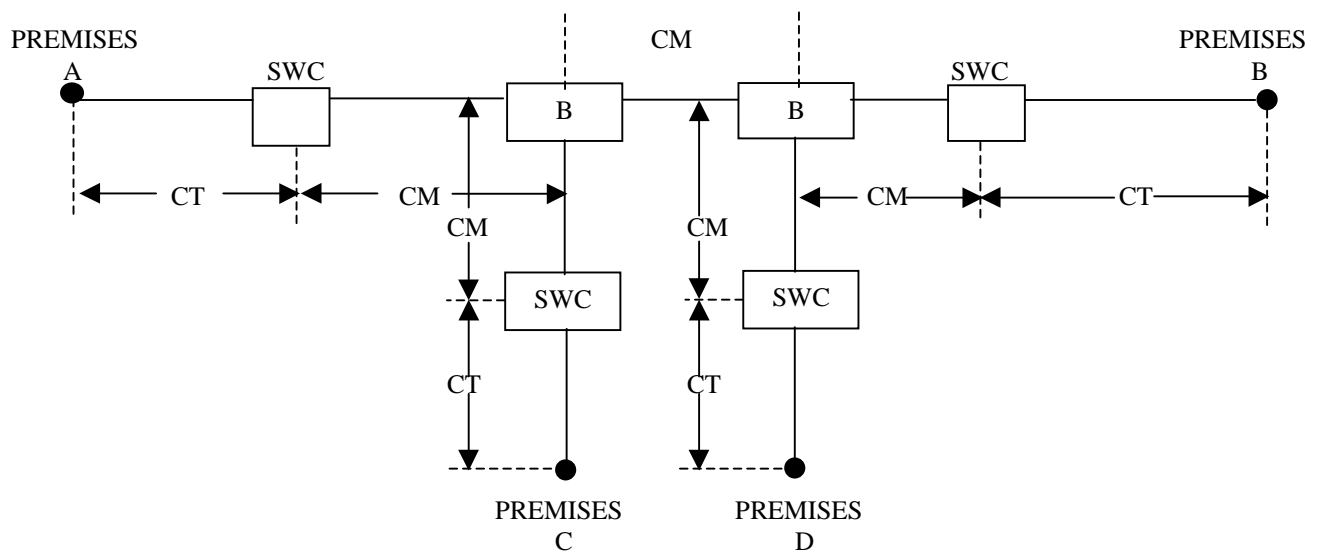
### 7. SPECIAL ACCESS SERVICE-(Continued)

#### 7.1 General-(Continued)

#### 7.1.3 Service Configurations-(Continued)

#### B. Multipoint Service-(Continued)

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



CT - CHANNEL TERMINATION  
CM - CHANNEL MILEAGE  
B - BRIDGING  
SWC - SERVING WIRE CENTER

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

Effective: September 14, 1988

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

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**MO PSC**

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  
Replacing Original Sheet 9-

(CP)ACCESS SERVICES

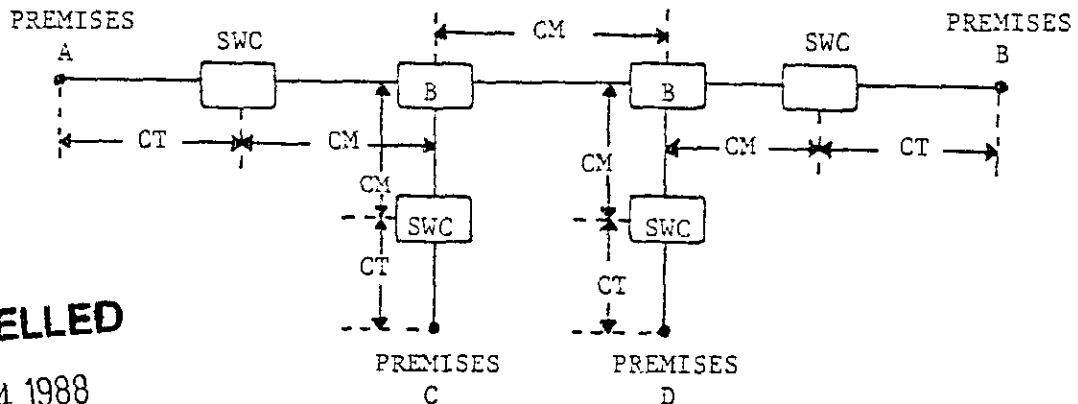
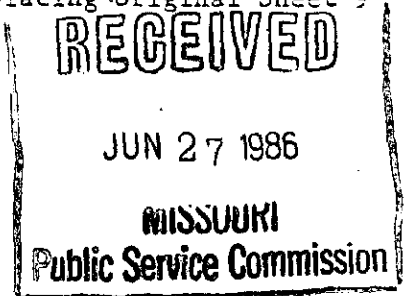
7. SPECIAL ACCESS SERVICE-(Continued)

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 specified bridging hubs.



**CANCELLED**

SEP 14 1988

BY *2nd P.S. #9*

Public Service Commission  
MISSOURI

CT - CHANNEL TERMINATION  
CM - CHANNEL MILEAGE  
B - BRIDGING  
SWC - SERVING WIRE CENTER

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)

**FILED**

JUL 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

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

Access Services Tariff  
Section 7  
Original Sheet 9

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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 intra-state use, the IC is responsible for providing reports as set forth in Section 2, Paragraph 2.3.15, preceding. Charges will be apportioned in accordance with these reports.

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JUL 1 1986  
BY 1st R.S. 9  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

JAN - 1 1984  
83 - 253

Issued: DEC 29 1983

Effective: JAN 01 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  
2nd Revised Sheet 9.01  
Replacing 1st Revised Sheet 9.01

## ACCESS SERVICES

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

#### 7.1 General-(Continued)

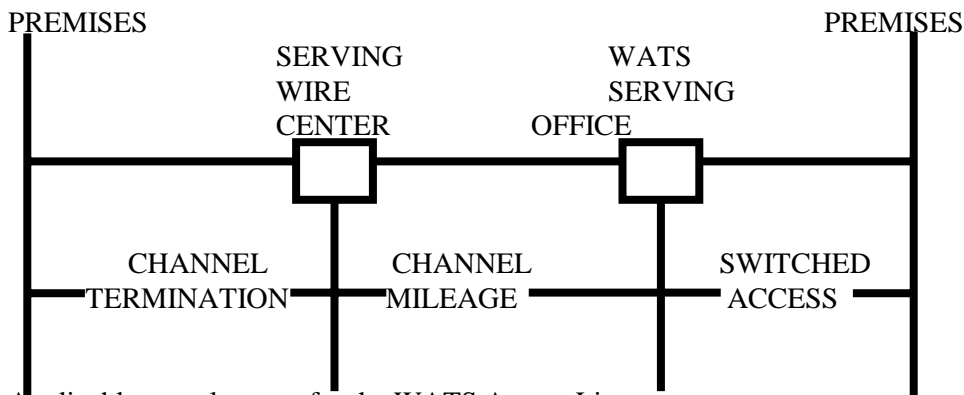
##### 7.1.3 Service Configurations-(Continued)

#### C. WATS Access Line Service

(AT)

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.

Issued: March 26, 1993

Effective: April 11, 1993

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

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**MO PSC**



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Access Services Tariff  
Section 7  
1st Revised Sheet 9.01  
Replacing Original Sheet 9.01

## ACCESS SERVICES

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## 7. SPECIAL ACCESS SERVICE-(Continued)

SEP 25 1989

## 7.1 General-(Continued)

MISSOURI

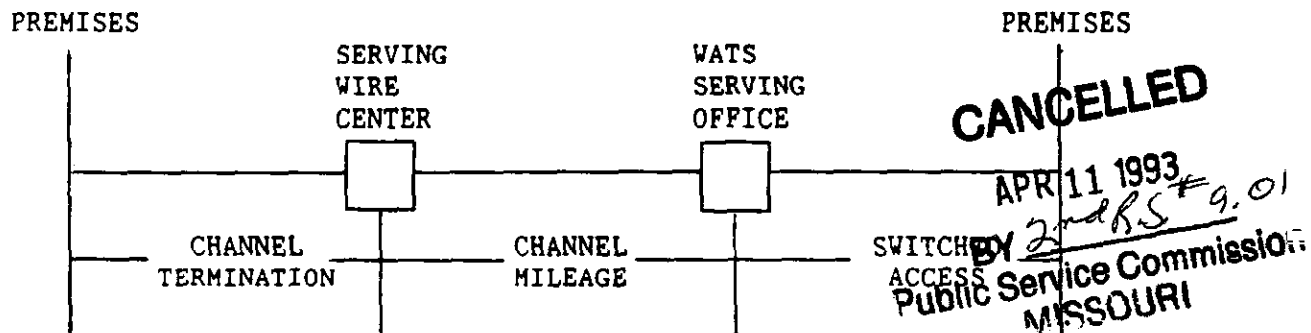
## 7.1.3 Service Configurations-(Continued)

Public Service Commission

## 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.



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)

(FC)  
|  
(FC)

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  
89-14

Public Service Commission

Issued: SEP 25 1989

Effective: OCT 1 1989

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 9.01

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

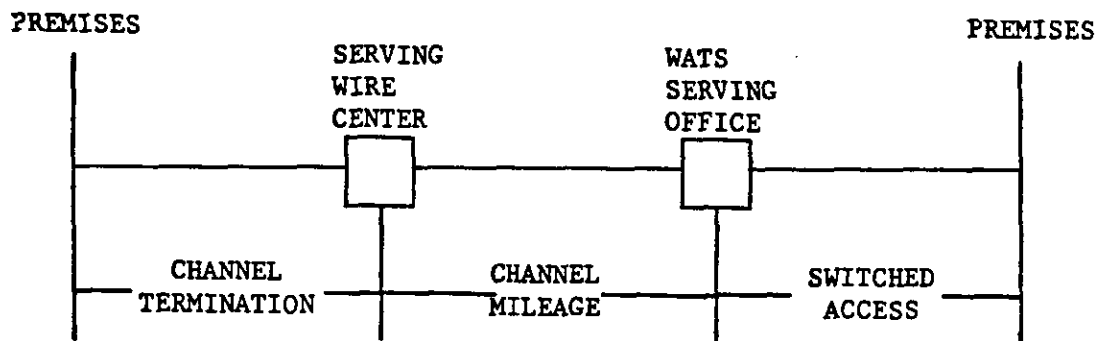
## 7.1 General-(Continued)

## 7.1.3 Service Configurations-(Continued)

## (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.



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 may be applicable.

FILED

OCT 16 1987

TO-87-42

Public Service Commissioner

Issued: OCT 14 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.

Access Services Tariff  
Section 7  
Original Sheet 9.02

## ACCESS SERVICES

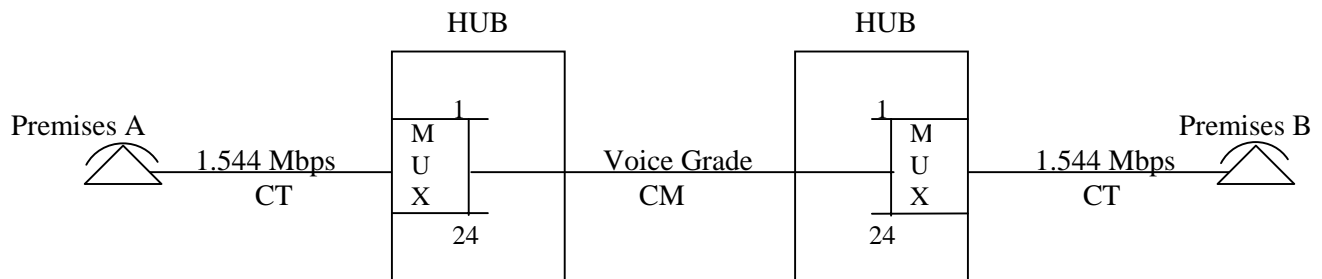
### 7. SPECIAL ACCESS SERVICE-(Continued)

#### 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

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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**MO PSC**

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

Access Services Tariff  
Section 7  
2nd Revised Sheet 10  
Replacing 1st Revised Sheet 10

## 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.

(AT) 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:

Issued: March 26, 1993

Effective: April 11, 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  
1st Revised Sheet 10  
Replacing Original Sheet 10

(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 Optional Features 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:

JUL 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

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JUN 27 1986  
MISSOURI  
Public Service Commission

CANCELLED  
APR 14 1993 #10  
BY R.S.  
Public Service Commission  
MISSOURI

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Access Services Tariff  
Section 7  
Original Sheet 10

DEC 29 1983

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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Public Service Commission

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 all.

**CANCELLED**

JUL 1 1986  
BY 1st R.S.#10  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

**FILED**

JAN - 1 1984

**83-253**

Issued: DEC 29 1983

Effective: JAN 01 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 11  
Replacing 5th Revised Sheet 11

## 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.

(RT)

|

(RT)

##### 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.).

Issued: January 10, 1997

February 10, 1997

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

**FILED**  
**MO PSC**

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.

Access Services Tariff  
Section 7  
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7. SPECIAL ACCESS SERVICE--(Continued)

7.1 General--(Continued)

MISSOURI  
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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.

- (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, 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 Change Charges, Cancellation Charges, etc.).

FEB 10 1993  
BY 6th R.S. #11  
Public Service Commission  
MISSOURI

FILED

APR 19 1993

MO. PUBLIC SERVICE COMM.

APR 19 1993

Issued: FEB 09 1993

Effective: ~~MAR 11 1993~~

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



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Access Services Tariff  
Section 7  
4th Revised Sheet 11  
Replacing 3rd Revised Sheet 11

ACCESS SERVICES

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AUG 9 1991

7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

7.1.7 Accepting Testing-(Continued)

**MISSOURI  
Public Service Commission**

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, following.  
(AT)

(AT) 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)

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.).

**CANCELLED**

APR 19 1993

BY 5th R.S. #11

**Public Service Commission  
MISSOURI**

Issued: **AUG 9 1991**

Effective: **SEP 0 9 1991**  
**SEP 3 0 1991**  
**SEP 2 0 1991**

**FILED**

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

**Public Service Commission**

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Section 7  
3rd Revised Sheet 11  
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ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

MISSOURI  
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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 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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SEP 30 1991

BY 4<sup>th</sup> R.S. #11

Public Service Commission  
MISSOURI

Issued: FEB 22 1990

Effective: MAR 26 1990

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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 of canceling this tariff.

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Section 7  
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7. SPECIAL ACCESS SERVICE-(Continued)

OCT 13 1987

7.1 General-(Continued)

MISSOURI  
Public Service Commission

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.).

CANCELLED  
MAR 26 1990  
BY 305 R.S. 711  
Public Service Commission  
MISSOURI

FILED

OCT 16 1987

TO-87-42  
Public Service Commission

Issued: OCT 14 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.

Access Services Tariff  
Section 7  
1st Revised Sheet 11  
Replacing Original Sheet 11

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.1 General-(Continued)

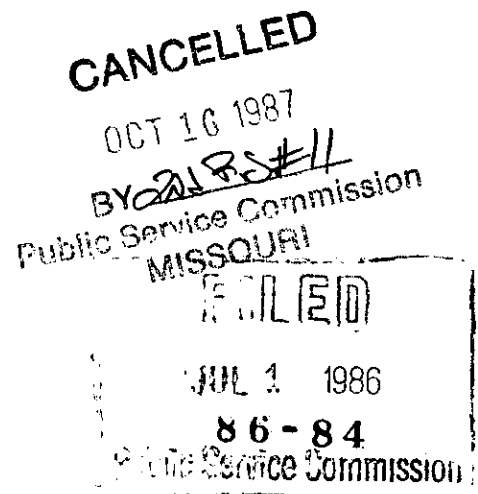
7.1.7 Accepting Testing-(Continued)

- 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.).



Issued: JUN 27 1986

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 11

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# ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

DEC 29 1983

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

#### 7.2.1 Analog Services

##### A. Narrowband Services

##### 1. Narrowband 1 (NB1) Special Access Service

###### a. Description

Special Access Service NB1 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 pair to a second End User's location.
- Customers requiring a four-wire metallic facility must buy two NB1 services.

###### d. Transmission Performance

- Leakage

Remedial action will be initiated when dc resistance between 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.

**CANCELLED**  
JUL 1 1986  
BY 124 R.S.#11  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

JAN - 1 1984  
83 - 253

Issued: DEC 29 1983

Effective: JAN 01 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 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

February 10, 1997

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

**FILED**  
**MO PSC**

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

Access Services Tariff  
Section 7  
5th Revised Sheet 12  
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MISSOURI  
Public Service Commission

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions

(CT) For the purposes of ordering, there are nine 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)  
Business Video (BVS)

(AT)

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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FEB 10 1993  
BY 6 R.S. #2  
Public Service Commission  
MISSOURI

FILED

APR 19 1993

Issued: FEB 09 1993

APR 19 1993 MISS. PUBLIC SERVICE COMM.  
Effective: ~~MAR 11 1993~~

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

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

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

ACCESS SERVICES

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MAR 29 1993

7. 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  
BY 5th R.S. #12  
Public Service Commission  
MISSOURI

(AT)

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.

**FILED**

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

Issued: MAR 26 1993

Effective:

APR 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  
3rd Revised Sheet 12  
Replacing 2nd 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)

(AT)

**CANCELLED**  
APR 11 1993  
BY 4<sup>th</sup> R.S. #12  
Public Service Commission  
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.

DEC 4 1992

Issued: OCT - 5 1992

Effective: DEC - 4 1992  
~~NOV - 5 1992~~

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  
2nd Revised Sheet 12  
Replacing 1st Revised Sheet 12

ACCESS SERVICES

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7. SPECIAL ACCESS SERVICE--(Continued)

SEP 25 1989

7.2 Service Descriptions

MISSOURI

(CT)

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

Metallic (MT)  
Telegraph Grade (TG)  
Voice Grade (VG)

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(RT)

Wideband Analog (WA)  
Wideband Data (WD)  
MegaLink Data (DA)  
High Capacity (HC)

DEC 4 1992

BY 3rd R.S. #12

(CT)

Public Service Commission  
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.

FILED

Issued: SEP 25 1989

Effective: OCT 1 1989 89-14  
Public Service Commission

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 12  
Replacing Original Sheet 12

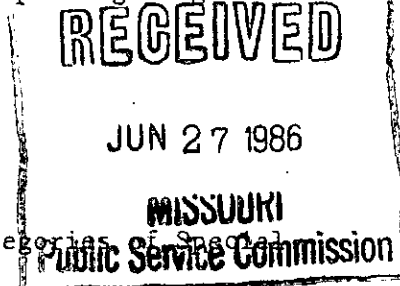
(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions

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



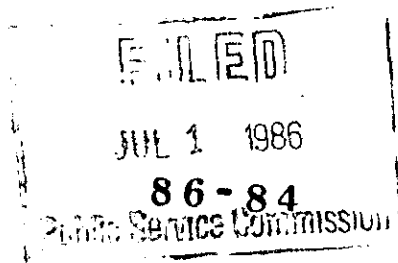
CANCELLED  
OCT 1 1989  
BY *gms* R.S.#12  
Public Service Commission  
MISSOURI

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.



Issued:

JUN 27 1986

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 12

## ACCESS SERVICES

DEC 29 1983

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 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>IC</u>	<u>End User</u>
2DC8-3	2DC3-3

## 2. Narrowband 2 (NB2) Special Access Service

## a. Description

Special Access Service NB2 provides a channel for simplex low-frequency, 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 to provide intrastate telecommunications services such as:

- Protective Alarm (McCulloh)

BY 1st R.S. 12  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

JAN - 1 1984

83 - 253

Issued: DEC 29 1983

Effective: JAN 01 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  
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 alpha-numeric or alpha –numeric designation following the two letter code indicates the specific pre-defined 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 symmetrical or asymmetrical . 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

Effective: April 11, 1993

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

**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 13  
Replacing 2nd Revised Sheet 13

## ACCESS SERVICES

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SEP 25 1989

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 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 symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical. However, communications can only be provided between points of termination with compatible channel interfaces. Only certain channel interfaces are compatible.

(RT)  
(RT)

Only certain channel interface combinations are available with the pre-defined 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.

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APR 11 1993  
BY H<sup>th</sup> R.S. #13  
Public Service Commission  
MISSOURI FILED

Issued: SEP 25 1989

Effective: OCT 1 1989

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

89-14

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

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

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ACCESS SERVICES

OCT 13 1987

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

MISSOURI  
Public Service Commission

(AT)

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 symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical. 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 pre-defined 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.

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OCT 1 1987

BY *328* B.S. #13

OCT 16 1987

Public Service Commission  
MISSOURI

Public Service Commission  
TO-87-42

Issued: OCT 14 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.

Access Services Tariff  
Section 7  
1st Revised Sheet 13  
Replacing Original Sheet 13

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

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. 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 symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical. 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.

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JUN 27 1986

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CANCELLED

OCT 16 1987

BY 2013 S.#13  
Public Service Commission  
MISSOURI

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JUL 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



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

Access Services Tariff  
Section 7  
Original Sheet 13

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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)

#### 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

<u>IC</u>	<u>End User</u>	<u>IC</u>	<u>End User</u>
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

#### 3. Narrowband 3 (NB3) Special Access Service

Reserved For Future Use

JUL 1 1986

BY 1212 S. 13  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

FILED

JAN - 1 1987

83-253

Public Service Commission

- (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 29 1983

Effective: JAN 01 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  
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-000336
Telegraph Grade	TR-NPL-000336
Voice Grade	TR-TSY-000335
Wideband Analog	TR-NPL-000339
Wideband Data	TR-NPL-000340
MegaLink Data	TR-NPL-000341
	PUB 62310
High Capacity	PUB 76625
	PUB 62411
	TR-INS-000342
DovLink	TP-76620

(RT)

Issued: January 10, 1997

February 10, 1997

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

**FILED**  
**MO PSC**

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

## ACCESS SERVICES

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FEB 9 1993

## 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:

Metallic	TR-NPL-000336
Telegraph Grade	TR-NPL-000336
Voice Grade	TR-TSY-000335
Wideband Analog	TR-NPL-000339
Wideband Data	TR-NPL-000340
MegaLink Data	TR-NPL-000341
	PUB 62310
High Capacity	PUB 76625
	PUB 62411
	TR-INS-000342
DovLink	TP-76620
Business Video	TP-76644

(AT)

CANCELLED

FEB 10 1997  
BY 8 R.S. #14  
Public Service Commission  
MISSOURI

FILED

APR 19 1993

APR 19 1993

Issued: FEB 09 1993

Effective: ~~APR 11 1993~~ MO. PUBLIC SERVICE COMMA.

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

OCT 5 1992

## 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-000336
Telegraph Grade	TR-NPL-000336
Voice Grade	TR-TSY-000335
Wideband Analog	TR-NPL-000339
Wideband Data	TR-NPL-000340
MegaLink Data	TR-NPL-000341
	PUB 62310
High Capacity	PUB 76625
	PUB 62411
	TR-INS-000342
	TP-76620

(AT)

DovLink

**CANCELLED**  
APR 19 1993  
BY 7th R.S. #14  
Public Service Commission  
MISSOURI

DEC 4 1992

DEC - 4 1992

Issued: OCT - 5 1992

Effective: ~~NOV - 5 1992~~

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  
5th Revised Sheet 14  
Replacing 4th Revised Sheet 14

## ACCESS SERVICES

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AUG 9 1991

## 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:

(CT)

Metallic  
Telegraph Grade  
Voice Grade  
Wideband Analog  
Wideband Data  
MegaLink Data

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

High Capacity

(CT)

**CANCELLED**

DEC 4 1992

BY 6th R.S. #4

**Public Service Commission**  
**MISSOURI**

Issued: **AUG 09 1991**

Effective:

~~SEP 09 1991~~**FILED**

SEP 30 1991

SEP 30 1991

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 of canceling this tariff.

Access Services Tariff  
Section 7  
4th Revised Sheet 14  
Replacing 3rd Revised Sheet 14

## ACCESS SERVICES

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## 7. SPECIAL ACCESS SERVICE-(Continued)

FEB 26 1990

## 7.2 Service Descriptions-(Continued)

MISSOURI

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:

(CT)	Metallic	PUB	62502
(CT)	Telegraph Grade	PUB	62502
	Voice Grade	NPL	000334 (WALs)
		NPL	000335 and associated Addendum
		PUB	41004, Table 4
	Wideband Analog	PUB	62505 and associated Addendum
	Wideband Data	PUB	62506
	MegaLink Data	PUB	62507 and associated Addendum
		PUB	62310
	High Capacity	PUB	62508
		PUB	62411

CANCELLED

SEP 30 1991

BY 5th R.S. #14

Public Service Commission  
MISSOURI

Issued: FEB 22 1990

Effective: MAR 26 1990

FILED

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

MAR 26 1990

Public Service Commission

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

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

## ACCESS SERVICES

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

SEP 25 1989

## 7.2 Service Descriptions--(Continued)

MISSOURI

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	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
(CT) Wideband Data	PUB	62506
MegaLink Data	PUB	62507 and associated Addendum
	PUB	62310
High Capacity	PUB	62508
	PUB	62411

CANCELLED

MAR 26 1990  
BY 4# RS. 114  
Public Service Commission  
MISSOURI

FILED

Issued: SEP 25 1989

Effective: OCT 1 1989

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  
2nd Revised Sheet 14  
Replacing 1st Revised Sheet 14  
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## ACCESS SERVICES

OCT 13 1987

## 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:

(AT)	Metallic	PUB 62502
	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

CANCELLED

OCT 1 1989  
BY 322 BS #14  
Public Service Commission  
MISSOURI

FILED

OCT 16 1987  
TO-87-42  
Public Service Commission

Issued: OCT 14 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.

Access Services Tariff  
Section 7  
1st Revised Sheet 14  
Replacing Original Sheet 14

## (CP)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	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

CANCELLED

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

FILED

JUL 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

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

Access Services Tariff  
Section 7  
Original Sheet 14

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

DEC 29 1983

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

7.2.1 Analog Services-(Continued)

Public Service Commission

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

- Telegraph Distortion

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

CANCELLED

JUL 1 1986  
BY R. S. 14  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

FILED

JAN - 1 1984  
83 - 253

Issued: DEC 29 1983

Effective: JAN 01 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  
2nd Revised Sheet 15  
Replacing 1st Revised Sheet 15

## (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 where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

## B. Technical Specifications Packages

<u>Parameter</u>	<u>Package MT-</u>			
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>
DC Resistance Between Conductors	X	X	X	
Loop Resistance	X			X
Shunt Capacitance	X			X

The technical specifications are delineated in Technical Reference  
PUB 62502.

Issued: June 27, 1986

Effective: July 1, 1986

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

1st Revised Sheet 15

Replacing Original Sheet 15

## 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)

## A. Narrowband Services-(Continued)

## 4. Narrowband 4 (NB4) Special Access Service-(Continued)

## e. Available Facility Interface Combinations

	IC	End User	IC	End User
	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
(CT)	4DB2-10	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
(RT)			4AH6-D(3)	2TT2-2
(CT)	2DB2-43(1)	4TT2-6	4AH6-D(3)	4TT2-2
(RT)			4AH6-D(3)	2TT2-6
	4DB2-43(1)	2TT2-6	4AH6-D(3)	4TT2-6
	2DB2-43(1)	2TT2-6		
	4TT2-6	2TT2-6		
	4DB2-43(1)	2TT2-6		
(AT)	2TT2-6	2TT2-6		
	2DB2-10	2TT2-6		
(AT)	4DB2-10	2TT2-6		

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JUL 1 1986

## 5. Narrowband 5 (NB5) Special Access Service

## a. Description

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 Capacity analog facility interface option of the IC terminal location and providing subsequent system and channel assignment data.

FILED

OCT 15 1984

Issued: AUG 1 1984

Effective: OCT 1 1984

Public Service Commission

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 15

## 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)

## A. Narrowband Services-(Continued)

## 4. Narrowband 4 (NB4) Special Access Service-(Continued)

## e. Available Facility Interface Combinations

IC	End User	IC	End User
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)	2TT2-6	4AH6-D(3)	4TT2-6
2DB2-43(1)	2TT2-6		
4TT2-6	2TT2-6		
4DB2-43(1)	2TT2-6		

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## 5. Narrowband 5 (NB5) Special Access Service

## a. Description

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 Capacity analog facility interface option of the IC terminal location and providing subsequent system and channel assignment data.

OCT 15 1984  
BY 1st RS 15  
PUBLIC SERVICE COMMISSION

JAN - 1 1984

83-253

Issued: DEC 29 1983

Effective: JAN 01 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  
3rd Revised Sheet 16  
Replacing 2nd Revised Sheet 16

## 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.

#### (AT) D. Optional Features, BSEs and Functions

##### (AT) 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.

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

	<u>Available with Technical Specifications Package MT-</u>			
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>
Three Premises Bridging	X	X		X
Series Bridging	X		X	

Issued: March 26, 1993

Effective: April 11, 1993

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

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tariff will be issued  
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Access Services Tariff  
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## ACCESS SERVICES

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## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.1 Metallic Service-(Continued)

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## C. Channel Interfaces

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

## D. Optional Features and Functions

## 1. Central Office Bridging 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 and functions are available.

	Available with Technical Specifications Package MT-			
	C	1	2	3
Three Premises Bridging	X	X		X
Series Bridging	X		X	

**CANCELLED**  
APR 11 1993  
BY 3rd R.S. #16  
Public Service Commission  
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FILED

Issued: SEP 25 1989

Effective: OCT 1 1989

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

OCT 1 1989  
89-14  
Public Service Commission

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

Access Services Tariff  
Section 7  
1st Revised Sheet 16  
Replacing Original Sheet 16



(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

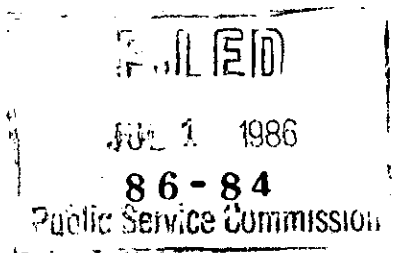
- a. Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer designated premises.
- b. Series Bridging of up to 26 customer designated premises.

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

	Available with Technical Specifications Package MT-			
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>
Three Premises Bridging	X	X		X
Series Bridging	X		X	

**CANCELLED**

OCT 1 1989  
BY *JMB* R.S. #16  
Public Service Commission  
MISSOURI



Issued: JUN 27 1986

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  
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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

DEC 20 1983

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

7.2.1 Analog Services-(Continued)

Public Service Commission

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 Distortion

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

CANCELLED

JUL 1 1986

BY 1248516  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

FILED

JAN - 1 1984

83 - 253

Issued: DEC 29 1983

Effective: JAN 01 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  
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

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

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

###### (AT) 1. Telegraph Bridging BSE (two-wire and four-wire)

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

	<u>Available with Technical Specifications Package TG-</u>		
	<u>C</u>	<u>1</u>	<u>2</u>
Telegraph Bridging	X	X	X

Issued: March 26, 1993

Effective: April 11, 1993

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

**FILED**  
**MO PSC**

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.

Access Services Tariff  
Section 7  
2nd Revised Sheet 17  
Replacing 1st 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

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

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.

	<u>Available with Technical Specifications Package TG-</u>		
	C	1	2
Telegraph Bridging	X	X	X

FILED

Issued: SEP 25 1989

Effective: OCT 1 1989  
OCT 1 1989  
1989 8 9 - 14

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

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SEP 25 1989

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Public Service Commission  
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Access Services Tariff  
Section 7  
1st Revised Sheet 17  
Replacing Original Sheet 17

## (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

Parameter	Package TG-		
	C	1	2
Telegraph Distortion	X	X	X

The technical specifications are delineated in Technical Reference PUB 62502.

## C. Channel Interfaces

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

## 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-		
	C	1	2
Telegraph Bridging	X	X	X

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JUN 27 1986

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OCT 1 1989

HYC R.S. #17

Public Service Commission

MISSOURI

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

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

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Section 7  
Original Sheet 17

## 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)

## A. Narrowband Services-(Continued)

## 5. Narrowband 5 (NB5) Special Access Service-(Continued)

## e. Available Facility Interface Combinations

IC	End User	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 inter-exchange carriers and Private Line Services.

## 1. Voice Grade 1 (VG1) Special Access Service

## a. Description

Special Access Service VG1 provides a channel for voice frequency transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location

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JUL 1 1986

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(1) Supplemental channel assignment information required.

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

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

83-253

Public Service Commission

Issued: DEC 29 1983

Effective: JAN 01 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  
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-													
		C(1)	1	2	3	4	5	6	7	8	9	10	11	12	W*
(AT)	Parameter														
	Attenuation														
	Distortion	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
	Echo Control	X	X	X	X	X	X	X	X	X	X	X	X	X	X+
	Envelope Delay														
	Distortion	X						X	X	X	X	X	X	X	X
	Frequency Shift	X						X	X	X	X	X	X	X	X
	Impulse Noise	X					X	X	X	X	X	X	X	X	X
	Intermodulation														
	Distortion	X						X	X	X	X	X	X	X	X
	Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Phase Hits, Gain														
	Hits, and														
	Dropouts	X													
	Phase Jitter	X						X	X	X	X	X	X	X	X
	Signal-to-C														
	Message Noise					X									
	Signal-to-C														
(AT)	Notch Noise	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

**FILED**  
**MO PSC**

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	C(1)	1	2	3	4	5	6	7	8	9	10	11	12
Attenuation													
Distortion	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
Echo Control	X	X	X	X		X		X	X			X	X
Envelope Delay													
Distortion	X						X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X
Impulse Noise	X					X	X	X	X	X	X	X	X
Intermodulation													
Distortion	X						X	X	X	X	X	X	X
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain													
Hits, and													
Dropouts	X												
Phase Jitter	X												
Signal-to-C													
Message Noise					X								
Signal-to-C													
Notch Noise	X					X	X	X	X	X	X	X	X

**CANCELLED**

OCT 10 1987

BY 2213.S.#18

Public Service Commission

MISSOURI

**FILED**

CANCELLED

OCT 10 1987

BY 225 B.S. #18

Public Service Commission  
MISSOURI

FILED

JUL 1 1986

86-84

Public Service Commission

(1) 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

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Access Services Tariff  
Section 7  
Original Sheet 18

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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)

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.

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JUL 1 1986  
BY 12th R.S.#18  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

FILED

JAN - 1 1984

83-253

Issued: DEC 29 1983

Effective: JAN 01 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 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.

(MT)

(MT)

(AT)

(AT)

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

Issued: September 6, 1995

Effective: October 6, 1995

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

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**MO PSC**

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.

Access Services Tariff  
Section 7  
5th Revised Sheet 19  
Replacing 4th 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.

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 DSL 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.

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

## (AT) 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

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OCT - 6 1995

BY 6<sup>th</sup> R.S. #19  
Public Service Commission  
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APR 11 1993

92-304

MO. PUBLIC SERVICE COMM.

Issued: MAR 26 1993

Effective:

APR 11 1993

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

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Access Services Tariff  
Section 7  
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Replacing 3rd Revised Sheet 19

## ACCESS SERVICES

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## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.3 Voice Grade Service-(Continued)

## B. Technical Specifications Packages-(Continued)

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

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APR 11 1993

BY 5<sup>th</sup> R.S. #19

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Issued: FEB 22 1990

Effective: MAR 26 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 Tariff  
Section 7  
3rd Revised Sheet 19  
Replacing 2nd 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 (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

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MAR 26 1990  
BY 4425 #19  
Public Service Commission  
MISSOURI

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Issued: SEP 25 1989

Effective: OCT 1 1989

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

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Access Services Tariff  
Section 7  
2nd Revised Sheet 19  
Replacing 1st 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)

(AT)

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)

(AT)

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

(AT)

(AT)

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

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

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OCT 1 1989

BY 728 RS#19

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OCT 16 1987

70-87-42

Public Service Commission

Issued: OCT 14 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.

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 drop-outs, 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.

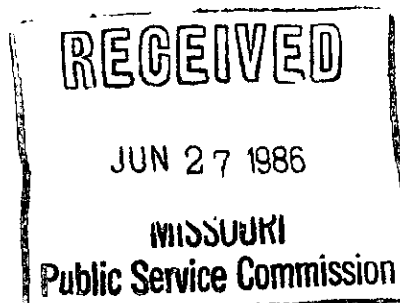
The following channel interfaces for Voice Grade Service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

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

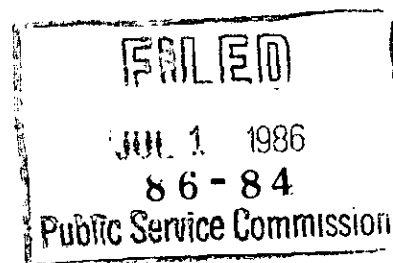
D. Optional Features and Functions

1. Central Office Bridging Capability

- 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



CANCELLED  
OCT 16 1987  
BY 215 R.S. #19  
Public Service Commission  
MISSOURI



Issued: JUN 27 1986

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 19

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

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

## 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:

<u>Channel Mileage (mi)</u>	<u>Limit (dBrnC0)(1)</u>	
	<u>Type V1</u>	<u>Type V2</u>
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:

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JUL 1 1986

BY 124 R.S. #19  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

**FILED**

JAN - 1 1984

**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 29 1983

Effective: JAN 01 1984

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

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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)

(RT)

(RT)

(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

(MT)

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

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



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Access Services Tariff  
Section 7  
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Replacing 2nd Revised Sheet 20

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE--(Continued)

7.2 Service Descriptions--(Continued)

7.2.3 Voice Grade Service--(Continued)

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

(AT) 1. Central Office Bridging BSE Capability--(Continued)

d. Telemetry and Alarm Bridging

Split Band, Active Bridging  
Passive Bridging  
Summation, Active Bridging

(AT) 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.

(AT) 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.

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BY 4th R.S. #20  
Public Service Commission  
MISSOURI

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APR 11 1993  
92 1304

MO. PUBLIC SERVICE COMM.

Issued: MAR 26 1993

Effective:

APR 11 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)

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7.2 Service Descriptions--(Continued)

MISSOURI

7.2.3 Voice Grade Service--(Continued)

Public Service Commission

(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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APR 11 1993

BY 3<sup>rd</sup> R.S. #20

Public Service Commission  
MISSOURI

Issued: FEB 22 1990

Effective: MAR 26 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 Tariff  
Section 7  
1st Revised Sheet 20  
Replacing Original Sheet 20

(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

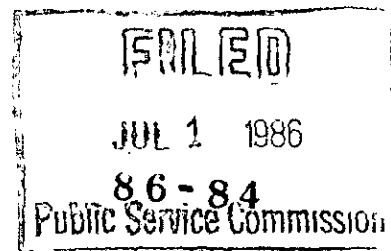
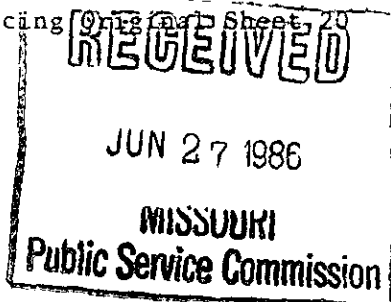
Voice to Telegraph Grade (43-Type Carrier): An arrangement that converts a voice grade channel to telegraph grade channels using frequency division multiplexing.

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.

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MAR 26 1990  
BY *gms* R.S.#20  
Public Service Commission  
MISSOURI



Issued: JUN 27 1986

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.

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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)

Public Service Commission

## B. Voice Grade Services-(Continued)

## 1. Voice Grade 1 (VG1) Special Access Service-(Continued)

## d. Transmission Performance-(Continued)

## - Echo Control-(Continued)

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
Standard Return Loss Interface (Return Loss)	5 dB	2.5 dB
Four-Wire Interface (Equal Level Echo Path Loss)	16 dB	11 dB

Effective Four-Wire Transmission

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

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
Two-Wire Interface (Return Loss)	24 dB	18 dB
Four-Wire Interface (Equal Level Echo Path Loss)	20 dB	14 dB
(For Centrex application 2 dB pad is "in")		

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JUL 1 1986

BY 124 R.S. #20  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

JAN - 1 1984  
83 - 253

Issued: DEC 29 1983

Effective: JAN 01 1984

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

No Supplement to this  
tariff will be issued  
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of canceling this tariff.

Access Services Tariff  
Section 7  
3rd Revised Sheet 21  
Replacing 2nd Revised Sheet 21

## 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)  
Relative to 1004 Hz

Frequency Range (Hz)	Variation (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 <u>Range (Hz)</u>	Variation (micro- <u>seconds</u> )
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.

Issued: March 26, 1993

Effective: April 11, 1993

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

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**MO PSC**

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Replacing 1st Revised Sheet 21

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## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.3 Voice Grade Service-(Continued)

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

## 3. Conditioning-(Continued)

## (AT) 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)  
Relative to 1004 Hz

Frequency Range (Hz)	Variation (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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APR 11 1993  
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Public Service Commission  
MISSOURI

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

Issued: FEB 22 1990

Effective: MAR 26 1990

**FILED**

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

MAR 26 1990  
Public Service Commission

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Access Services Tariff  
Section 7  
1st Revised Sheet 21  
Replacing Original Sheet 21

## (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

<u>Frequency Range (Hz)</u>	<u>Variation (dB)</u>
400-2800	-1.0 to +2.0
300-3000	-1.0 to +3.0
3000-3200	-2.0 to +6.0

Envelope Delay  
Distortion

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

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Public Service Commission  
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FILED  
JUL 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

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Access Services Tariff  
Section 7  
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## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

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

## 7.2.1 Analog Services-(Continued)

## B. Voice Grade Services-(Continued)

## 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 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 +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 in Paragraphs 2.1, B.14., following.

## 2. Voice Grade 2 (VG2) Special Access Service

## a. Description

Special Access Service-VG2 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.

Issued: DEC 29 1983

Effective: JAN 01 1984

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5th Revised Sheet 22  
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## 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.

Issued: March 26, 1993

Effective: April 11, 1993

By A. D. ROBERTSON, Assistant Vice President-External Affairs  
Southwestern Bell Telephone Company  
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7. SPECIAL ACCESS SERVICE--(Continued)

7.2 Service Descriptions--(Continued)

7.2.3 Voice Grade Service--(Continued)

(FC) E. 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.

(AT) Improved Attenuation 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 References set forth at the end of Paragraph 7.2.

(AT)

d. C-Conditioning

(AT)

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

(AT)

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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Issued: FEB 22 1990

Effective: MAR 26 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

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.

- (AT)  
|  
(AT)
- 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.

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MAR 26 1990  
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Public Service Commission  
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FILED

OCT 16 1987

70-87-42  
Public Service Commission

Issued: OCT 14 1987

Effective: OCT 16 1987

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)

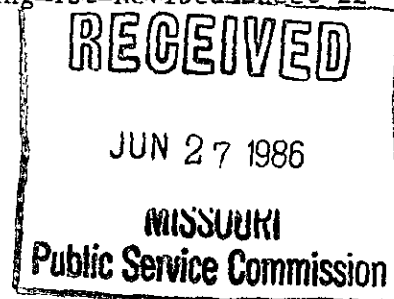
7.2.3 Voice Grade Service-(Continued)

D. Optional Features and Functions-(Continued)

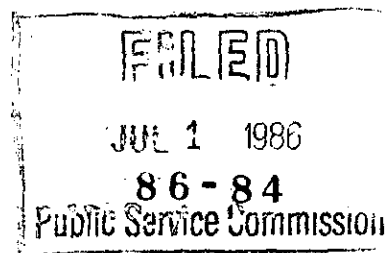
3. Conditioning-(Continued)

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.



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OCT 16 1987  
BY 3rd R.S. #22  
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

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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)

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.

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
- Off-Premises Intercommunications Line
- Private Line Voice Circuit
- Paging Circuit
- Foreign Exchange Line (Closed End)
- Centrex Station Line - Off-Premises
- Off-Premises Extension
- Off-Premises PBX Station Line

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OCT 15 1984

Issued: AUG 15 1984

Effective: OCT 15 1984

By R. D. BARRON, President-Missouri Division  
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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)

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.

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
- 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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OCT 15 1984  
BY 1st RS 22  
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83 - 258

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Issued: DEC 29 1983

Effective: JAN 01 1984

By R. D. BARRON, Vice President-Missouri  
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St. Louis, Missouri

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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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Issued: March 26, 1993

Effective: April 11, 1993

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

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APR 11 1993  
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Issued: FEB 22 1990

Effective: MAR 26 1990 FILED

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

MAR 26 1990  
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2nd Revised Sheet 23  
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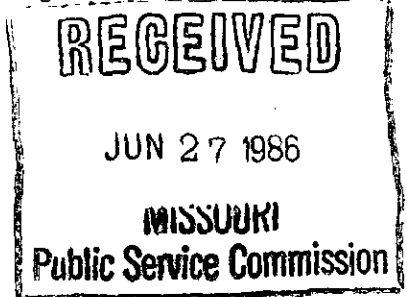
7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.3 Voice Grade Service-(Continued)

D. Optional Features and Functions-(Continued)

4. Reserved for future use.



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MAR 26 1990  
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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

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)

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

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## 7.2.1 Analog Services-(Continued)

## B. Voice Grade Services-(Continued)

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## 2. Voice Grade 2 (VG2) Special Access Service-(Continued)

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

(RT)

## d. Transmission Performance

## - C-Message Noise

The C-Message Noise shall be less than:

Channel Mileage (mi)	Limit (dBrnC0) (1)	
	Type V1	Type V2
0 - 50	33	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

## - Echo Control

BY J. R. S. 23  
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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:

- (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.

OCT 15 1984

Issued: AUG 15 1984

Effective: OCT 15 1984

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By R. D. BARRON, President-Missouri Division  
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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

## 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)

## 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 two-wire leg of effective four-wire channel.

## d. Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

<u>Channel Mileage (mi)</u>	<u>Limit (dBrnC0)(1)</u>	
	<u>Type V1</u>	<u>Type V2</u>
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:

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

Issued: DEC 29 1983

Effective: JAN 01 1984

By R. D. BARRON, Vice President-Missouri  
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Section 7  
3rd Revised Sheet 24  
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## 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 ratio 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

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

Issued: March 26, 1993

Effective: April 11, 1993

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

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7. SPECIAL ACCESS SERVICE--(Continued)

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7.2 Service Descriptions--(Continued)

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7.2.3 Voice Grade Service--(Continued)

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

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(CT) 5. Improved Termination

(CT) 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.

(AT) 6. Improved Return Loss

(FC) 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.

(FC) 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 ratio and intermodulation distortion.

(RT) 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

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Issued: FEB 22 1990

Effective: MAR 26 1990

MAR 26 1990

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1st Revised Sheet 24  
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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)

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 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 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 noise ratio is equal to or greater than 32 dB

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Issued: JUN 27 1986

Effective: JUL 1 1986

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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)

## 2. Voice Grade 2 (VG2) 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.)

	<u>Echo Return Loss</u>	<u>Singing 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 (Equal Level Echo Path Loss) (For Centrex Application, 2 dB pad is "in")	16 dB	11 dB

Effective Four-Wire Transmission

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

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

Issued: DEC 29 1983

Effective: JAN 01 1984

By R. D. BARRON, Vice President-Missouri  
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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

Effective: April 11, 1993

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

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

(FC) 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.

(FC) 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.

(CT)  
(CT)

(AT) 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.

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Issued: FEB 22 1990

Effective: MAR 26 1990

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7. SPECIAL ACCESS SERVICE-(Continued)

OCT 13 1987

7.2 Service Descriptions-(Continued)

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7.2.3 Voice Grade Service-(Continued)

Public Service Commission

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)

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.

(AT)

CANCELLED  
MAR 26 1990  
BY 308 R 5-125  
Public Service Commission  
MISSOURI

FILED

OCT 16 1987

TO-87-42  
Public Service Commission

Issued: OCT 14 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.

Access Services Tariff  
Section 7  
1st Revised Sheet 25  
Replacing Original Sheet 25.

(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 16 1987  
BY *212RS#25*  
Public Service Commission  
MISSOURI

FILED

JUL 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

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

Access Services Tariff  
Section 7  
Original Sheet 25

## 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)

## 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:

<u>Standard RL</u>		<u>Improved RL</u>	
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 304 Hz and 3004 Hz shall be within -1.0 dB and +5.0 dB.

## e. Available Facility Interface Combinations

VG2 is available only with specific facility interface combinations as set forth in Paragraph 7.2.1, B.14, following.

**CANCELLED**  
JUL 1 1986  
BY 1st R.S.25  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

JAN - 1 1987  
83-253

Issued: DEC 29 1983

Effective: JAN 01 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  
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.

(AT) 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</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>W</u>
C-Type Conditioning (1)	X					X	X	X	X	X	X			
Central Office Bridging														
Capabilit	X	X				X	X				X	X	X	
Central Office Multiplexing	X						X							
C-Conditioning	X					X	X	X	X	X	X			

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

Issued: March 26, 1993  
Effective: April 11, 1993  
By A. D. ROBERTSON, Assistant Vice President-External Affairs  
Southwestern Bell Telephone Company  
St. Louis, Missouri

**FILED**  
**MO PSC**

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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Section 7  
3rd Revised Sheet 26  
Replacing 2nd Revised Sheet 26

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## 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 service with which it wishes to communicate.

## (FC) 11. Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service.

## (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.

Available with Technical  
Specifications Package VG-

	<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>W</u>
(AT) C-Type Conditioning (1)	X					X	X	X	X	X	X			
Central Office Bridging Capability	X		X			X	X				X	X	X	
Central Office Multiplexing	X						X							
(AT) C-Conditioning	X					X	X	X	X	X	X			

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

Issued: FEB 22 1990

Effective: MAR 26 1990

FILED

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

MAR 26 1990  
Public Service Commissioner

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)

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## 7.2 Service Descriptions-(Continued)

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## 7.2.3 Voice Grade Service-(Continued)

MISSOURI

## D. Optional Features and Functions-(Continued)

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## 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.

	Available with Technical Specifications Package VG-													
	C	1	2	3	4	5	6	7	8	9	10	11	12	W
C-Type Conditioning	X					X	X	X	X	X	X			
Central Office Bridging Capability	X					X	X				X	X	X	
Central Office Multiplexing	X													

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MAR 26 1990

BY 308 R S #26 X

Public Service Commission

MISSOURI

FILED

OCT 16 1987

TO 87-42

Public Service Commission

Issued: OCT 14 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

Access Services Tariff  
Section 7  
1st Revised Sheet 26

Replacing Original Sheet 26

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JUN 27 1986

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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.

Available with Technical Specifications Package VGF

	<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>
C-Type Conditioning	X					X	X	X	X	X	X		
Central Office Bridging Capability	X		X			X	X				X	X	X
Central Office Multiplexing	X						X						

CANCELLED

OCT 16 1987  
B2d BS-676

FILED

JUN 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



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

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7. SPECIAL ACCESS SERVICE-(Continued)

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

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
- Station and Premises Connecting Facilities

CANCELLED

JUL 1 1986

BY 1st R.S. #26  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

FILED

JAN - 1 1984  
83 - 253

Issued: DEC 29 1983

Effective: JAN 01 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  
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</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>W</u>		
Data Capability	X						X			X						
Improved Attenuation Distortion (IAD)	X					X	X	X	X	X	X				X	
Improved Echo Control at two-wire WAL point of termination															X+	
Improved Termination at four-wire point of termina- tion	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 Conditioning	X	X	X	X	X		X					X		X		
Selective Signal- ing Arrangement	X		X													
Signaling Capability	X	X	X	X			X	X	X						*	
Improved Envelope Delay																
Distortion(IEDD)	X						X	X	X	X	X	X	X			
Transfer Arrangement	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: March 26, 1993

Effective: April 11, 1993

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

**FILED**  
**MO PSC**

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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Section 7  
4th Revised Sheet 27  
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## SPECIAL ACCESS SERVICE--(Continued)

## 7.2 Service Descriptions--(Continued)

## 7.2.3 Voice Grade Service--(Continued)

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

Available with Technical  
Specifications Package VG-

		<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>W</u>
(RT)	Data Capability	X						X				X			
	Improved Attenuation														X
(AT)	Distortion (IAD)	X					X	X	X	X	X	X			
	Improved Echo Control at two-wire														
	WAL point of termination														X+
(CT)	Improved Termination at four-wire														
	point of termination	X	X	X	X	X	X	X	X	X	X	X	X	X	
(AT)	Improved Return Loss at two-wire														
	point of termination	X		X	X				X						
(AT)	Improved ELEPL	X	X	X	X		X		X						
	Sealing Current														
	Conditioning	X	X				X	X							
	Selective Signaling Arrangement	X		X											
	Signaling Capability	X	X	X	X				X	X	X				*
(AT)	Improved Envelope Delay														
	Distortion(IEDD)	X					X	X	X	X	X	X			
	Transfer Arrangement	X	X	X	X	X	X	X	X	X	X	X	X	X	

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BY 5th R.S. #27

Public Service Commission  
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(MT)

- \* Signaling is provided in conjunction with Switched Access Service.  
+ When WAL extensions are provided, Echo Control limits are not applicable.

Issued: FEB 22 1990

Effective: MAR 26 1990

FILED

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

MAR 26 1990

Public Service Commission

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

Access Services Tariff  
Section 7  
3rd Revised Sheet 27  
Replacing 2nd Revised Sheet 27

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

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## 7.2 Service Descriptions-(Continued)

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## 7.2.3 Voice Grade Service-(Continued)

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## D. Optional Features and Functions-(Continued)

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## 10. Transfer Arrangement-(Continued)

Available with Technical  
Specifications Package VG-

(AT)		C	1	2	3	4	5	6	7	8	9	10	11	12	W
	Data Capability	X						X				X			
(AT)	Improved Attenuation Distortion														X
	Improved Echo Control at two-wire														
(AT)	WAL point of termination														X+
	Improved Return Loss at four-wire point of termination	X	X	X	X	X	X	X	X	X	X	X	X	X	
	at two-wire point of termination	X		X	X				X						
	Sealing Current Conditioning	X	X				X	X				X		X	
	Selective Signaling Arrangement	X		X											
	Signaling Capability	X	X	X	X				X	X	X				*
(RT)	Transfer Arrangement	X	X	X	X	X	X	X	X	X	X	X	X	X	

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MAR 26 1990  
BY 42 R.S. #27  
Public Service Commission  
MISSOURI

## E. 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.

(AT) \* Signaling is provided in conjunction with Switched Access Service. OCT 16 1987  
(AT) + When WAL extensions are provided, Echo Control limits are not applicable. 7-42  
Public Service Commission

Issued: OCT 14 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.

Access Services Tariff  
Section 7

-2nd- Revised-Sheet-27-  
Replacing 1st Revised Sheet 27

## (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)

	Available with Technical Specifications Package VG-												
	<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>
Data Capability	X						X	X			X		
Improved Return Loss													
At Four-Wire													
Point Of Termination	X	X	X	X	X	X	X	X	X	X	X	X	X
At Two-Wire													
Point Of Termination	X		X	X									
Sealing Current													
Conditioning	X	X				X	X	X	X	X	X		X
Selective Sig-													
naling Arrange-													
ment	X		X										
Signaling													
Capability	X	X	X	X									
Transfer													
Arrangement	X	X	X	X	X	X	X	X	X	X	X	X	X

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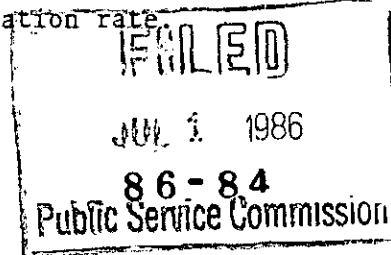
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## E. Four-Wire/Two-Wire Conversion

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.



Issued:

JUN 27 1986

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  
1st Revised Sheet 27  
Replacing Original Sheet 27

## 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)

## 3. Voice Grade 3 (VG3) Special Access Service--(Continued)

## c. Optional Features

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

## d. Transmission Performance

## - C-Message Noise

The C-Message noise shall be less than:

Channel Mileage (mi)	Limit (dBmCO) (1)	
	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

BY gmr R.S. 27  
PUBLIC SERVICE COMMISSION

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:

- (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: AUG 15 1984

Effective: OCT 15 1984

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

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AUG 14 1984

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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)

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## 7.2.1 Analog Services-(Continued)

## B. Voice Grade Services-(Continued)

## 3. Voice Grade 3 (VG3) Special Access Service-(Continued)

## c. Optional Features

- 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 four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.

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## d. Transmission Performance

- C-Message Noise

The C-Message noise shall be less than:

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BY 1st RS 27  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

Channel Mileage (mi)	Limit (dBrnC0)(1)	
	Type V1	Type V2
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

- Echo Control

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

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(1) Where facility network 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 29 1983

Effective: JAN 01 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  
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)

(FC) 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.

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

Issued: February 22, 1990

Effective: March 26, 1990

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

**FILED**  
**MO PSC**



No supplement to this  
tariff will be issued  
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Section 7  
2nd Revised Sheet 28  
Replacing 1st Revised Sheet 28

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7. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

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MAR 26 1990  
BY 328 S. #28  
Public Service Commission  
MISSOURI

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FILED

Issued: SEP 25 1989

Effective: OCT 1 1989 OCT 1 1989  
89 - 14

By R. D. BARRON, President-Missouri Division Public Service Commission  
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Replacing Original Sheet 28

## (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 Company Hub.

## B. Technical Specifications Packages

Parameter	Package AP-				
	C(1)	1	2	3	4
Actual Measured Loss	X	X	X	X	X
Amplitude Tracking	X				
Crosstalk	X	X	X	X	X
Distortion Tracking	X				
Gain/Frequency					
Distortion	X	X	X	X	X
Group Delay	X				
Noise	X	X	X	X	X
Phase Tracking	X				
Short-Term Gain					
Stability	X				
Short-Term Loss	X				
Total Distortion	X	X	X	X	X

The technical specifications are delineated in Technical Reference PUB 62503 and associated Addendum.

## C. Channel Interfaces

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

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

Issued:

JUN 27 1986

Effective:

JUL 1 1986

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## ACCESS SERVICES

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## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Technical Service Descriptions for Special Access Service-(Continued) Missouri Commission

## 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, two-wire interface at the End User's premises.)

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
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 (Equal Level Echo Path Loss) (For Centrex application, 2 dB pad is "in")	16 dB	11 dB

Effective Four-Wire Transmission

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

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

JUL 1 1986

JUL 28 1986

PUBLIC SERVICE COMMISSION  
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JAN - 1 1984

83 - 253

Issued: DEC 29 1983

Effective: JAN 01 1984

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

No Supplement to this  
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Section 7  
2nd Revised Sheet 29  
Replacing 1st Revised Sheet 29

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

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

(RT)

Issued: 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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## (CP)ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.4 Program Audio Service-(Continued)

## C. Channel Interfaces-(Continued)

CIBandwidth

PG-1	Nominal frequency from 50 to 15000 Hz
PG-3	Nominal frequency from 200 to 3500 Hz
PG-5	Nominal frequency from 100 to 5000 Hz
PG-8	Nominal frequency from 50 to 8000 Hz

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

## D. Optional Features and Functions

## 1. Central Office Bridging Capability

Distribution Amplifier

## 2. Gain Conditioning

Control of 1004 Hz AML at initiation of service to 0 dB  $\pm$  .05 dB.

## 3. Stereo

Provision of a pair of gain/phase equalized channels for stereo applications. (additional AP channel must be ordered separately.)

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

Available with Technical  
Specifications Package AP-

Central Office Bridging  
Capability  
Gain Conditioning  
Stereo

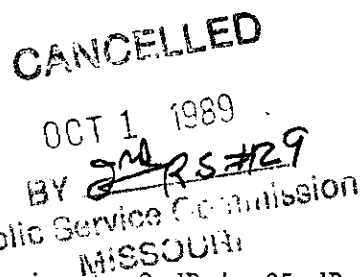
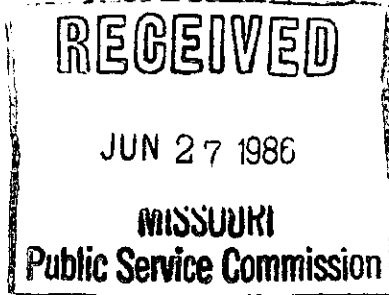
<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>
X	X	X	X
X	X	X	X
X			



Issued: JUN 27 1986

Effective: JUL 1 1986

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



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Original Sheet 29

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## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

DEC 29 1983

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

## 7.2.1 Analog Services-(Continued)

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## B. Voice Grade Services-(Continued)

## 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:

Standard 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 +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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JUL 1 1986

BY 1st B.S. 29  
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JAN - 1 1986

83 - 253

PUBLIC SERVICE COMMISSION

Issued: DEC 29 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.

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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

<u>Parameter</u>	<u>Package WA-</u>				
	<u>1</u>	<u>2</u>	<u>2A</u>	<u>3</u>	<u>4</u>
Amplitude Stability	X	X			
Background Noise	X	X	X	X	X
Frequency Shift	X	X	X		
Gain/Frequency Characteristics of:					
-Group Connections	X			X	X
-Supergroup Connections		X			
-Mastergroup Connections			X		
Impulse Noise	X	X	X		
Net Loss Variations	X	X	X	X	X
Pilot Slot	X	X	X		
Spurious Single Frequency Tone	X	X	X		

The technical specifications are delineated in Technical References listed in Paragraph 7.2, preceding.

(CT)

Issued: August 9, 1991

Effective: September 30, 1991

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

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**MO PSC**

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

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Section 7  
1st Revised Sheet 30  
Replacing Original Sheet 30

## (CP)ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.5 Wideband Analog Service

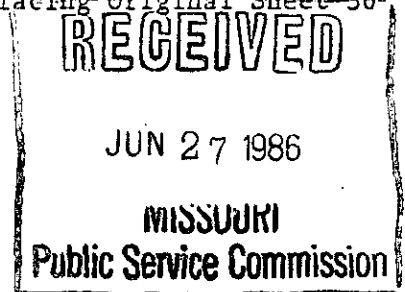
## A. Basic Channel Description

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.

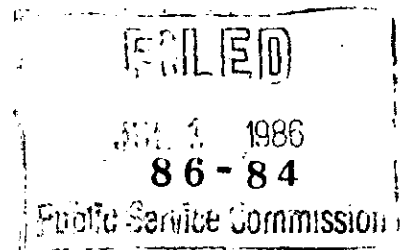
## B. Technical Specifications Packages

Parameter	Package WA-				
	1	2	2A	3	4
Amplitude Stability	X	X			
Background Noise	X	X	X	X	X
Frequency Shift	X	X	X		
Gain/Frequency					
Characteristics of:					
-Group Connections	X			X	X
-Supergroup					
Connections		X			
-Mastergroup					
Connections			X		
Impulse Noise	X	X	X		
Net Loss Variations	X	X	X	X	X
Pilot Slot	X	X	X		
Spurious Single					
Frequency Tone	X	X	X		

The technical specifications are delineated in Technical Reference PUB 62505 and associated Addendum.



CANCELLED  
SEP 30 1991  
BY 2<sup>nd</sup> R.S. #30  
Public Service Commission  
MISSOURI



Issued:

JUN 27 1986

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.

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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)

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 VG5 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 two-wire leg of effective four-wire channel.

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JUL 1 1986

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OF MISSOURI

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JAN - 1 1984  
83-253

Issued: DEC 29 1983

Effective: JAN 01 1984

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

No Supplement to this  
tariff will be issued  
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of canceling this tariff.

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

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

#### (AT) D. Optional Features, BSEs and Functions

##### (AT) 1. Central Office Multiplexing BSE

##### a. Mastergroup to Supergroup

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

##### b. Supergroup to Group

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

##### c. Group to Voice

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

Issued: March 26, 1993

Effective: April 11, 1993

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

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Section 7  
2nd Revised Sheet 31  
Replacing 1st Revised Sheet 31

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7. SPECIAL ACCESS SERVICE-(Continued)

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7.2 Service Descriptions-(Continued)

7.2.5 Wideband Analog Service-(Continued)

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C. Channel Interfaces

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

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

(CI)

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

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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APR 11 1993  
BY 312 R.S. #31  
Public Service Commission  
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Issued: SEP 25 1989

Effective: OCT 1 1989 OCT 1 1989  
89-14

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

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

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

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## 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.

OCT 1 1989  
BY *gms* R.S.#31  
Public Service Commission  
MISSOURI

JUL 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

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

Access Services Tariff  
Section 7  
Original Sheet 31

## 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:

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

## - Echo Control

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

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- (1) Where facility network capabilities do not support the parameters, Type V1 will be provided. Where the Type V1 parameters cannot be supported, Type V2 will be provided.

FILED

JAN - 1 1986

83 - 253

Issued: DEC 29 1983

Effective: JAN 01 1984

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

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Section 7  
2nd Revised Sheet 32  
Replacing 1st Revised Sheet 32

## ACCESS SERVICES

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

#### 7.2 Service Descriptions-(Continued)

##### 7.2.5 Wideband Analog Service-(Continued)

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

#### (AT) 1. Central Office Multiplexing BSE-(Continued)

##### d. Group to DS1

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

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

#### Available with Technical Specifications Package WA-

1   2   2A   3   4

#### Central Office

#### Multiplexing:

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

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

Issued: March 26, 1993

Effective: April 11, 1993

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

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

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Section 7  
1st Revised Sheet 32  
Replacing Original Sheet 32

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

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JUL 1 1986  
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(1) Requires two channels with technical specifications package WA1 to form a WAIT service.

Issued: JUN 27 1986

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.

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## 7. SPECIAL ACCESS SERVICE-(Continued)

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

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## 7.2.1 Analog Services-(Continued)

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## 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.)

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
Standard Two-Wire Interface (Return Loss)	5 dB	2.5 dB
Four-Wire Interface (Equal Level Echo Path Loss)	16 dB	11 dB

Effective Four-Wire Transmission

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

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

(For Centrex application, 1 1986  
2 db pad is "in")

BY 1st R.S. 32  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

JAN - 1 1984  
83 - 253

Issued: DEC 29 1983

Effective: JAN 01 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  
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

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

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

## C. Channel Interfaces

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

<u>CI</u>	<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

Issued: June 27, 1986

Effective: July 1, 1986

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

**FILED**  
**MO PSC**

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

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Section 7  
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## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

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

## 7.2.1 Analog Services-(Continued)

## B. Voice Grade Services-(Continued)

## 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:

<u>Standard RL</u>		<u>Improved RL</u>	
ERL	5 dB	ERL	20 dB
SRL	2.5 dB	SRL	13.5 dB

## - Loss Variation

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

## - Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +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 impulse noise counts exceeding a threshold of 67 dBmCO in 15 minutes shall be less than 15.

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JUL 1 1986

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PUBLIC SERVICE COMMISSION

OF MISSOURI

Issued: DEC 29 1983

Effective: JAN 0.1 1984

By R. D. BARRON, Vice President-Missouri  
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Access Services Tariff  
Section 7  
3rd Revised Sheet 34  
Replacing 2nd Revised Sheet 34

## ACCESS SERVICES

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

#### 7.2 Service Descriptions-(Continued)

##### 7.2.6 Wideband Data Service-(Continued)

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

#### (AT) D. Optional Features, BSEs and Functions

##### 1. Key Activated Transfer Arrangement

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

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

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

Issued: March 26, 1993

Effective: April 11, 1993

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

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## ACCESS SERVICES

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## 7. SPECIAL ACCESS SERVICE-(Continued)

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## 7.2 Service Descriptions-(Continued)

## 7.2.6 Wideband Data Service-(Continued)

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(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.

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

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Issued: SEP 25 1989

Effective: OCT 1 1989 OCT 1 1989 89-14

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 34  
Replacing Original Sheet 34

(CP)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 Paragraph 7.3.5, F., following.

D. Optional Features and Functions

1. Key Activated Transfer Arrangement

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

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

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

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OCT 1 1989  
BY *2nd* *RS #34*  
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FILED  
JUL 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

No supplement to this  
tariff will be issued  
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of canceling this tariff.

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

DEC 29 1983

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

7.2.1 Analog Services-(Continued)

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B. Voice Grade Services-(Continued)

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 four-wire 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 1st R.S. 34  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

FILED

JAN - 1 1984

83 - 253

Public Service Commission

Issued: DEC 29 1983

Effective: JAN 01 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.

(CT)

This service is classified as competitive.

##### B. Technical Specifications Packages

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

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

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

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

Issued: February 20, 2002

Effective: March 29, 2002

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

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**MO PSC**

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Section 7  
6th Revised Sheet 35  
Replacing 5th Revised Sheet 35

## ACCESS SERVICES

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## 7. SPECIAL ACCESS SERVICE- (Continued)

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## 7.2 Service Descriptions- (Continued)

MAR 29 2002

## 7.2.7 MegaLink Data Service

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## A. Basic Channel Description

(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 customer-designated premises and a Telephone Company digital hub for multipoint or multiplexed service at all speeds except 64 kbps (CC).

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

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

## B. Technical Specifications Packages

Package DA-

(AT)	Parameter	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
(AT)	Error-Free Seconds	X	X	X	X	X	X

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

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

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

Issued: JAN 09 1995

Effective: FEB 09 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  
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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

## 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 effective January 10, 1993.

## B. Technical Specifications Packages

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

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

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

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SEP 29 1992

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**Public Service Commission**
**CANCELLED**

FEB 9 - 1995

 BY 6th R.S. #35  
**Public Service Commission**  
**MISSOURI**
Issued: **OCT 01 1992**Effective: **JAN 10 1993****FILED**

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

**JAN 10 1993**  
**93 - 116**
**MO. PUBLIC SERVICE COM.**

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

## ACCESS SERVICES

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AUG 9 1991

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.7 MegaLink Data Service

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**Public Service Commission**

## A. Basic Channel Description

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

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JAN 10 1993  
BY 54 R.S.#35

## B. Technical Specifications Packages

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

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

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

Issued: **AUG 09 1991**

Effective: ~~SEP 00 1991~~

SEP 30 1991

**FILED**

SEP 30 1991

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

No supplement to this  
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except for the purpose  
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Access Services Tariff  
Section 7  
3rd Revised Sheet 35  
Replacing 2nd Revised Sheet 35

## ACCESS SERVICES

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

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## 7.2 Service Descriptions--(Continued)

SEP 25 1989

## (CT) 7.2.7 MegaLink Data Service

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Public Service Commission

## A. Basic Channel Description

(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 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.

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

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## B. Technical Specifications Packages

Parameter

Error-Free Seconds

1234

X

X

X

X

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

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

Package DAF 4th R.S. #35  
Public Service Commission  
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Issued: SEP 25 1989

Effective: OCT 1, 1989

FILED

By R. D. BARRON, President-Missouri Division

Southwestern Bell Telephone Company Public Service Commission  
St. Louis, Missouri

OCT 1 1989  
89-14

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Section 7  
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Replacing 1st Revised Sheet 35

## ACCESS SERVICES

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JUN 22 1988

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.7 Digital Data Service

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## A. Basic Channel Description

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

(CP)

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

## B. Technical Specifications Packages

Parameter

Error-Free Seconds

Package DA-

	2	3	4
	X	X	X

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

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

Issued: JUN 22 1988

Effective: JUL 8 1988

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

**FILED**

JUL 8 1988

88-277  
Public Service Commission

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

Access Services Tariff  
Section 7  
1st Revised Sheet 35  
Replacing Original Sheet 35

## (CP)ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.7 Digital Data Service

## A. Basic Channel Description

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

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

## B. Technical Specifications Packages

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

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

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

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JUL 8 1988

BY 2nd RS#35

Public Service Commission  
MISSOURI

FILED

JUL 1 1986

86-84

Issued:

JUN 27 1986

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

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## 7. SPECIAL ACCESS SERVICE-(Continued)

DEC 29 1983

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

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## 7.2.1 Analog Services-(Continued)

Public Service Commission

## 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:

<u>Channel Mileage (mi)</u>	<u>Limit (dBrnC0)(1)</u>	
	<u>Type V1</u>	<u>Type V2</u>
0 - 50	32	38
51 - 100	33	39
101 - 200	35	41
201 - 400	37	43
401 - 1000	39	45

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JUL 1 1986

BY 124 R.S.35  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

JAN - 1 1984

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 29 1983

Effective: JAN 01 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:

	<u>CI</u>	<u>Bit Rate</u>
	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

(AT) 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 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company-designated Hub. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as a part of the option.

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

Issued: January 9, 1995

Effective: February 9, 1995

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

**FILED**  
**MO PSC**

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

## 7. SPECIAL ACCESS SERVICE-(Continued)

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## 7.2 Service Descriptions-(Continued)

MAR 29 1993

## 7.2.7 MegaLink Data Service-(Continued)

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## C. Channel Interfaces

Public Service Commission

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.

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

## (AT) 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 1xN 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.

FEB 9 - 1995  
BY 674 R.S.#36  
Public Service Commission

Issued:

MAR 26 1993

Effective:

APR 1 1993

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

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



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

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## ACCESS SERVICES

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## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.7 MegaLink Data Service-(Continued)

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## 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.

## E. 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 1xN 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.

CANCELLED

APR 11 1993  
BY 5th R.S. #36  
Public Service Commission  
MISSOURI

Issued: FEB 22 1990

Effective: MAR 26 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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Section 7  
3rd Revised Sheet 36  
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## 7. SPECIAL ACCESS SERVICE--(Continued)

## 7.2 Service Descriptions--(Continued)

## (CT) 7.2.7 MegaLink Data Service--(Continued)

## C. Channel Interfaces

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

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

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

## D. Optional Features and Functions

1. Central Office Bridging Capability
2. Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company-designated Hub. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as a part of the option.

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MAR 26 1990  
BY 402 P.S.#36  
Public Service Commission  
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Issued: SEP 25 1989

Effective: OCT 1 1989

FILED

OCT 1 1989

89-14

By R. D. BARRON, President-Missouri Division  
Southwestern Bell Telephone Company Public Service Commissioner  
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 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>
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-96	9.6 kbps
DU-56	56.0 kbps

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

## D. Optional Features and Functions

1. Central Office Bridging Capability
2. Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company-designated Hub. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as a part of the option.

(MT)

(MT)

Issued: SEP 18 1987

Effective: OCT 19 1987

FILED

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

OCT 19 1987

Public Service Commission

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OCT 1 1989  
BY 328 R.S. #36  
Public Service Commission  
MISSOURI

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Access Services Tariff  
Section 7  
1st Revised Sheet 36  
Replacing Original Sheet 36

## (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:

<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 Paragraph 7.3.5, G., following.

## D. Optional Features and Functions

1. Central Office Bridging Capability
2. Transfer Arrangement

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OCT 19 1987

BY *gms* R.S.#36Public Service Commission  
MISSOURI

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company-designated Hub. A Key Activated or Dial-Up Control Service is required to operate the transfer arrangement. A spare line, if required, is not included as a part of the option.

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

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

FILED

JUL 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

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

Access Services Tariff  
Section 7  
Original Sheet 36

## 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)

## 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:

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

## - Loss Variation

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

## - Attenuation Distortions

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

## - Signal-to-C Notch Noise

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

## - Envelope Delay Distortion

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

## - Impulse Noise

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

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JUL 1 1986  
BY 12 R.S. 36  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

FILED

JAN - 1 1984

83-259

Issued: DEC 29 1983

Effective: JAN 01 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  
4th Revised Sheet 36.01  
Replacing 3rd Revised Sheet 36.01

## ACCESS SERVICES

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

#### 7.2 Service Descriptions-(Continued)

##### 7.2.7 MegaLink Data Service-(Continued)

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

#### 3. Secondary Channel Capability BSE

(AT)

Secondary Channel capability provides for an additional low-speed digital transmission channel within the existing 2.4, 4.8, 9.6, 19.2 and 56.0 kbps primary channels. It is available as a point-to-point or a multipoint service utilizing a nonrepeated channel termination. The Secondary Channel can be used as a communications channel for the controlling and monitoring of a customer's network.

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

(AT)

#### Available with Technical Specifications Package DA-

(AT)

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Central Office Bridging Capability	X	X	X	X	X	
Transfer Arrangement	X	X	X	X	X	X
Secondary Channel Capability	X	X	X	X	X	

Issued: January 9, 1995

Effective: February 9, 1995

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

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**MO PSC**

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)

## (AT) 3. Secondary Channel Capability BSE

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

(AT) 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	X	X	X	X
Transfer Arrangement	X	X	X	X
Secondary Channel Capability	X	X	X	X

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FEB 9 - 1995  
BY 4<sup>th</sup> R.S. # 36.01  
Public Service Commission  
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APR 11 1993  
92-304  
MO. PUBLIC SERVICE COM

Issued: MAR 26 1993

Effective:

APR 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 canceling this tariff.

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Section 7  
2nd Revised Sheet 36.01  
Replacing 1st Revised Sheet 36.01

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

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## 7.2 Service Descriptions-(Continued)

FEB 20 1990

## 7.2.7 MegaLink Data Service-(Continued)

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

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## 3. Secondary Channel Capability

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

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

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

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APR 11 1993  
BY 3rd R.S. 36.01  
Public Service Commission  
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Issued: FEB 22 1990

Effective: MAR 26 1990

FILED

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

MAR 26 1990  
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## 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.

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

CANCELLED

MAR 26 1990

BY *200 R.S.#36.01*  
Public Service Commission  
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Issued: SEP 25 1989

Effective:

OCT 1

OCT 1 1989

89 - 14

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.

Access Services Tariff  
Section 7  
Original Sheet 36.01

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.7 Digital Data Service-(Continued)

## D. Optional Features and Functions (Continued)

## (NR) 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.

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

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

CANCELLED

OCT 1 1989

BY 121 R.S.#36.01  
Public Service Commission  
MISSOURI

Issued: SEP 18 1987

Effective: OCT 19 1987

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

FILED

OCT 19 1987

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SEP 17 1987

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Section 7  
11th Revised Sheet 37  
Replacing 10th Revised Sheet 37

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE

## 7.2 Service Descriptions (cont'd)

## 7.2.8 High Capacity Service

## A. Basic Channel Description

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

(RT)(FC)

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

High Capacity Service is classified as competitive.

## B. Technical Specifications Packages

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

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

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

Issued: January 3, 2003

Effective: February 2, 2003

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

**Filed**  
**MO PSC**

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

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

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

## ACCESS SERVICES

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

Missouri Public

#### 7.2 Service Descriptions-(Continued)

REC'D FEB 20 2002

##### 7.2.8 High Capacity Service

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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 (a) between customer designated premises, (b) between a customer designated premises and a Telephone Company Hub, (c) Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission, (d) between Transport Resource Management Service Hubs at 1.544 Mbps transmission, (e) between a Transport Resource Management Service Hub and a Telephone Company Hub at 1.544 Mbps transmission, (f) between a Network Reconfiguration Service Hub and a Transport Resource Management Service Hub at 1.544 Mbps transmission, or (g) between a Network Reconfiguration Service Hub and a Telephone Company Hub at 1.544 Mbps transmission.

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

(CT)

High Capacity Service is classified as competitive.

###### B. Technical Specifications Packages

	Package HC-	
	0	1
Parameters		

Error-Free Seconds

X

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

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

Issued: February 20, 2002

Effective: March 22, 2002

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

Missouri Public  
MAR 29 2002

FILED MAR 29 2002

Service Commission

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

## ACCESS SERVICES

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

## 7.2 Service Descriptions--(Continued)

## 7.2.8 High Capacity Service

MAR 29 2002

AUG 26 1994

By **104NR331**  
Public Service Commission  
MISSOURI

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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 (a) between customer designated premises, (b) between a customer designated premises and a Telephone Company Hub, (c) Hub to Hub for Network Reconfiguration Service at 1.544 Mbps transmission, (d) between Transport Resource Management Service Hubs at 1.544 Mbps transmission, (e) between a Transport Resource Management Service Hub and a Telephone Company Hub at 1.544 Mbps transmission, (f) between a Network Reconfiguration Service Hub and a Transport Resource Management Service Hub at 1.544 Mbps transmission, or (g) between a Network Reconfiguration Service Hub and a Telephone Company Hub at 1.544 Mbps transmission.

(FC)

(FC)

(AT)

(AT)

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

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

## B. Technical Specifications Packages

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

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

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

**FILED**Issued: **AUG 26 1994**Effective: **SEP 26 1994**

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

MISSOURI  
Public Service Commission

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

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

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.8 High Capacity Service

## A. Basic Channel Description

(RT) 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>0</u>	<u>1</u>	<u>3</u>
<u>Parameters</u>			
Error-Free Seconds		X	

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

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

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AUG 25 1993

MISSOURI  
Public Service Commission**CANCELLED**

SEP 26 1994  
BY 9th R.S. #37  
Public Service Commission  
MISSOURI

SEP 27 1993

Issued: **AUG 27 1993**Effective: **SEP 27 1993**

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

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  
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.

(AT)

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

(AT)

## B. Technical Specifications Packages

**CANCELLED**

Package HC

011CParameters

Error-Free Seconds

X

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

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

Issued: **OCT 01 1992**Effective: **JAN 10 1993****FILED**

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

**JAN 10 1993**  
**93 - 116**  
**MO. PUBLIC SERVICE COMMISSION**

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

Access Services Tariff

Section 7

6th Revised Sheet 37

Replacing 5th Revised Sheet 37

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.8 High Capacity Service

## A. Basic Channel Description

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

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

(RT)  
(RT)

## B. Technical Specifications Packages

## Package HC-

0	1	1C	2	3	4
---	---	----	---	---	---

Parameters

Error-Free Seconds

X

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

**CANCELLED**

JAN 10 1993

BY 7# R.S. #37

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

Issued: **AUG 09 1991**Effective: ~~SEP 01 1991~~**FILED****SEP 30 1991**

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 of canceling this tariff.

Access Services Tariff  
Section 7  
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Replacing 4th Revised Sheet 37

## ACCESS SERVICES

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## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.8 High Capacity Service

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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, 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.

(AT)

(AT)

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

## B. Technical Specifications Packages

**CANCELLED**  
Package HC-

011C

SEP 30 1991

BY 6th R.S. 37

Public Service Commission

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Parameters

Error-Free Seconds

X

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

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

Issued: JUN 04 1991

Effective: AUG 05 1991

FILED

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

AUG 5 1991

Public Service Commission

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

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

## ACCESS SERVICES

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

## 7.2 Service Descriptions--(Continued)

## 7.2.8 High Capacity Service

## A. Basic Channel Description

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

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

## B. Technical Specifications Packages

<u>Parameters</u>	<u>Package HC-</u>					
	<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 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.

(CT)

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AUG 2 1991

BY STH RS #37

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

Issued: FEB 22 1990

Effective: MAR 26 1990

FILED

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

MAR 26 1990

Public Service Commission

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

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

## ACCESS SERVICES

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## 7. SPECIAL ACCESS SERVICE-(Continued)

## 7.2 Service Descriptions-(Continued)

## 7.2.8 High Capacity Service

## A. Basic Channel Description

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

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

## B. Technical Specifications Packages

Parameters	Package HC-					
	<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 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.

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BY 44 RS #37

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

FILED

Issued: SEP 25 1989

Effective: OCT 1 1989 OCT 1 1989  
89-14

By R. D. BARRON, President-Missouri Division Public 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

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## 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.

(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

Parameters	Package HC-				
	1	1C	2	3	4
Error-Free Seconds	1	1C	2	3	4

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical Reference PUB 62411.

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

Issued:

JUN 22 1988

Effective:

JUL 8 1988

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

JUL 8 1988

Public Service Commission

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

Access Services Tariff  
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1st Revised Sheet 37  
Replacing Original Sheet 37

(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

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

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75 percent over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical Reference PUB 62411.

**CANCELLED**  
JUL 8 1988  
BY *gms* R.S.#37  
Public Service Commission  
MISSOURI

- (1) Available only as a channel for 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.

**FILED**

86-84

Issued: JUN 27 1986

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.

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ACCESS SERVICES

DEC 29 1983

7. SPECIAL ACCESS SERVICE-(Continued)

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

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Public Service Commission

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

6. Voice Grade 6 (VG6) Special Access Service-(Continued)

d. Transmission Performance-(Continued)

- Intermodulation Distortion

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

- Phase Jitter

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

- Frequency Shift

The frequency shift shall not exceed  $\pm 1$  Hz.

e. Available Facility Interface Combinations

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

7. Voice Grade 7 (VG7) Special Access Service

a. Description

Special Access Service VG7 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an End User's location and an End User's premises. The transmission interface at the End User's premises

JUL 1 1986  
BY 12th R.S. 37  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

JAN - 1 1984  
83 - 253

Issued: DEC 29 1983

Effective: JAN 01 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 38  
Replacing 5th Revised Sheet 38

## ACCESS SERVICES

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

#### 7.2 Service Descriptions-(Continued)

##### 7.2.8 High Capacity Service-(Continued)

#### C. Channel Interfaces

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

	<u>CI</u>	<u>Bit Rate</u>
(RT)	DS-15(1)	1.544 Mbps (DS1)
(RT)		
(RT)	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.

Issued: August 27, 1993

Effective: September 27, 1993

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

**FILED**  
**MO PSC**

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

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

## ACCESS SERVICES

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

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## 7.2 Service Descriptions--(Continued)

FEB 20 1990

## 7.2.8 High Capacity Service--(Continued)

MISSOURI

## C. Channel Interfaces

Public Service Commission

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

<u>CI</u>	<u>Bit Rate</u>
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.

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

## 1. High Capacity Service Arrangement

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

## 2. Multiplexed Service Arrangement

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

(AT)

(MT)

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SEP 25 1993  
BY 6<sup>th</sup> R.S. # 38  
Public Service Commission  
MISSOURI

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

Issued: FEB 22 1990

Effective: MAR 26 1990

FILED

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

MAR 26 1990

Public Service Commission



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

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

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

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## 7.2 Service Descriptions-(Continued)

SEP 25 1989

## 7.2.8 High Capacity Service-(Continued)

MISSOURI

## C. Channel Interfaces

Public Service Commissioner

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

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MAR 26 1990  
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Public Service Commissioner  
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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)

(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 1xN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer's premises. The customer is responsible for providing the equipment at his/her premises.

## 2. Transfer Arrangement

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

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

Issued: SEP 25 1989

Effective: OCT 1 1989

OCT 1 1989  
89-14

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

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3rd Revised Sheet 38

Replacing 2nd Revised Sheet 38

## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

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## 7.2 Service Descriptions-(Continued)

JUN 22 1988

## 7.2.8 High Capacity Service-(Continued)

## C. Channel Interfaces

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Public Service Commission

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

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 Paragraph 7.3.5, H., following.

**CANCELLED**

OCT 1 1989

BY 44 RS #38  
Public Service Commission

## D. Optional Features and Functions

## 1. Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer's premises. The customer is responsible for providing the equipment at his/her premises.

(CP)

(CP)

## 2. Transfer Arrangement

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

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

Issued:                     Effective:                     

JUN 22 1988

JUL 8 1988

**FILED**

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

JUL 8 1988

88-287

Public Service Commission

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

Access Services Tariff  
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Replacing 1st Revised Sheet 38.

## (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 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 Paragraph 7.2.8 following.

## D. Optional Features and Functions

## 1. Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer's premises. The customer is responsible for providing the equipment at its premises. Equipment at the customer's premises will be provided under tariff only if it existed in the Telephone Company's inventory as of November 18, 1983.

## 2. Transfer Arrangement

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

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

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JUL 8 1986

BY 328 R.S.H.38

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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

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

a. Description-(Continued)

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

b. Illustrative Applications

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

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

c. Optional Features

- Improved return loss for effective two-wire  
transmission at the End User's premises.
- C-Conditioning
- DA-Conditioning
- IC specified End User's premises receive  
level within a range acceptable to the  
Telephone Company

(RT)

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JUL 1 1986  
BY *gms* R.S. 38  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

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AUG 1 1984

MISSOURI  
**Public Service Commission**

**FILED**

OCT 15 1984

Issued: **AUG 15 1984**

Effective: **OCT 1 1984** **Public Service Commission**

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

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ACCESS SERVICES

DEC 29 1983

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

a. Description-(Continued)

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

b. Illustrative Applications

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

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

c. Optional Features

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

**CANCELLED**  
OCT 15 1984  
BY 1st RS 38  
PUBLIC SERVICE COMMISSION  
OF MISSOURI

FILED

JAN - 1 1984

83 - 253

Issued: DEC 29 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 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 1xN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer's premises. The customer is responsible for providing the equipment at his/her premises.

##### 2. Transfer Arrangement

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

##### 3. Central Office Multiplexing BSE

(RT)

|

(RT)

(FC)

##### a. DS3 to DS1

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

(RT)

|

(RT)

Issued: August 27, 1993

Effective: September 27, 1993

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

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**MO PSC**

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.

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)

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Public Service Commission

(AT) E. Optional Features, BSEs and Functions

(AT) 1. Automatic Loop Transfer BSE

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer's premises. The customer is responsible for providing the equipment at his/her premises.

## 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**

(AT) 3. Central Office Multiplexing BSE

## a. DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time division multiplexing. **SEP 25 1993 BY 6<sup>th</sup> R.S.# 39 Public Service Commission MISSOURI**

## b. DS3 to DS1

(C) 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 26 1993

Effective:

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

APR 11 1993

APR 11 1993  
32-504

MO. PUBLIC SERVICE COMMISSION

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

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4th Revised Sheet 39  
Replacing 3rd Revised Sheet 39

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

## 7.2 Service Descriptions--(Continued)

## 7.2.8 High Capacity Service--(Continued)

## (FC) E. Optional Features and Functions

## 1. Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer-designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when a working channel fails. The spare channel is included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer's premises. The customer is responsible for providing the equipment at his/her premises.

## 2. Transfer Arrangement

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

## 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 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.

(MT)

Issued: FEB 22 1990

Effective: MAR 26 1990

FILED

MAR 26 1990

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  
3rd Revised Sheet 39  
Replacing 2nd Revised Sheet 39

ACCESS SERVICES

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SEP 25 1989

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 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.

d. DS1C to DS1

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

e. DS1 to Voice

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

f. DS1 to DS0

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  
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OCT 1 1989  
89-14

Issued: SEP 25 1989

Effective: OCT 1 1989  
Public Service Commission

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  
2nd Revised Sheet 39  
Replacing 1st Revised Sheet 39

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 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.

d. DS1C to DS1

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

e. DS1 to Voice

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

f. DS1 to DSO

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

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TO-87-42  
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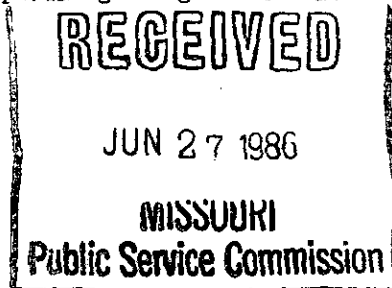
Issued: OCT 14 1987

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.

Access Services Tariff  
Section 7  
1st Revised Sheet 39  
Replacing Original Sheet 39



(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 converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

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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 DSO

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

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OCT 16 1987  
By 201 RS #39  
Public Service Commission  
MISSOURI

**FILED**  
JUL 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

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Access Services Tariff  
Section 7  
Original Sheet 39

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## ACCESS SERVICES

## 7. SPECIAL ACCESS SERVICE-(Continued)

DEC 20 1983

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

## 7.2.1 Analog Services-(Continued)

DEC 20 1983

## 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>Channel Mileage (mi)</u>	<u>Limit (dBrnC0)(1)</u>	
	<u>Type V1</u>	<u>Type V2</u>
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:

BY 124 R.S.39  
PUBLIC SERVICE COMMISSION  
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JAN - 1 1984

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 29 1983

Effective: JAN 01 1984

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