ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

(RT)

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:

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

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 31
Replacing 1st 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 (CI's) define the bandwidths that are available for a Wideband Analog channel:

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

(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 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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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 31
Replacing Original Sheet 31

(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:

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

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

D. Optional Features and Functions

1. Central Office Multiplexing

a. Mastergroup to Supergroup

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. [illegible] channel(s) of this Group level service to the Hub can also be used for Program Audio service.

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

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

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:

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:

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

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

(RT)

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.

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

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Section 7
1st Revised Sheet 32
Replacing Original Sheet 32

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.5 Wideband Analog Service-(Continued)

D. Optional Features and Functions-(Continued)

1. Central Office Multiplexing-(Continued)

d. Group to DS1

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

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

	Available with Technical Specifications Package WA-				
	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.

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

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

Access Services Tariff
Section 7
Original Sheet 32

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

5. Voice Grade 5 (VG5) Special Access Service-(Continued)

d. Transmission Performance-(Continued)

- Echo Control-(Continued)

Effective Two Wire Transmission

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

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

Effective Four-Wire Transmission

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

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

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

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Southwestern Bell Telephone Company
St. Louis, Missouri

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.6 Wideband Data Service

A. Basic Channel Description

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

B. Technical Specifications Packages

	Package WD-		
	1	2	3
Parameter			
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:

CI	Bit Rate
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

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

Access Services Tariff
Section 7
Original Sheet 33

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

5. Voice Grade 5 (VG5) Special Access Service-(Continued)

d. Transmission Performance-(Continued)

- Improved Return Loss

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

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 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 dBrnC0 in 15 minutes shall be less than 15.

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

(RT)

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.

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

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 34
Replacing 1st Revised Sheet 34

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.6 Wideband Data Service-(Continued)

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

D. Optional Features and Functions

1. Key Activated Transfer Arrangement

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

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

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

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

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

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-		
	1	2	3
Key Activated Transfer Arrangement	X	X	X

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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 34

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

5. Voice Grade 5 (VG5) Special Access Service-(Continued)

e. Available Facility Interface Combinations

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

6. Voice Grade 6 (VG6) Special Access Service

a. Description

Special Access Service VG6 provides a channel for voiceband data transmission capability. Usable frequencies are nominally 300 to 3000 Hz between an IC terminal location and an End User's premises. The transmission interface is 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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By R. D. BARRON, Vice President-Missouri
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data(1) Service (CP)

A. Basic Channel Description

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

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

B. Technical Specifications Packages

	Package DA-					
Parameter	1	2	3	4	5	6
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.

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

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.

(RT)

B. Technical Specifications Packages

	Package DA-					
Parameter	1	2	3	4	5	6
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.

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service

A. Basic Channel Description

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

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

(CT) This service is classified as competitive.

B. Technical Specifications Packages

	Package DA-					
Parameter	1	2	3	4	5	6
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.

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

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service

A. Basic Channel Description

A MegaLink Data channel is a channel for duplex four-wire transmission
(AT) of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56.0 kbps
(AT) 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
(AT) premises for two-point service at all speeds or between a customer-designated premises and a Telephone Company digital hub for multipoint or
(AT) multiplexed service at all speeds except 64 kbps (CC).

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

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

B. Technical Specifications Packages

		Package DA-					
(AT)	Parameter	1	2	3	4	5	6
(AT)	Error-Free Seconds	X	X	X	X	X	X

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

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

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

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Effective: FEB 0 9 1995

By HORACE WILKINS, JR., President-Missouri
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
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.

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

B. Technical Specifications Packages

	Package DA-			
Parameter	1	2	3	4
Error-Free Seconds	X	X	X	X

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875 percent error-free seconds (if provided through a Digital Data Hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in 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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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 35
Replacing 3rd 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.

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

B. Technical Specifications Packages

	Package DA-			
Parameter	1	2	3	4
Error-Free Seconds	X	X	X	X

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

(CT) 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 3 0 1991
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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

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

Access Services Tariff
Section 7
3rd Revised Sheet 35
Replacing 2nd Revised Sheet 35

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(CT) 7.2.7 MegaLink Data Service

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
(CT) to the customer in the received bit stream. MegaLink Data channels are provided between customer designated premises for two point service or between a customer designated premises and a Telephone Company digital hub for multipoint or multiplexed service.

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

B. Technical Specifications Packages

	Package			
Parameter	1	2	3	4
Error-Free Seconds	X	X	X	X

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

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

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OCT 1 1989
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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
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No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 Digital Data Service

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	Package DA-1	2	3	4
Error-Free Seconds	X	X	X	X

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

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

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Southwestern Bell Telephone Company
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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

	Package DA-			
Parameter	1	2	3	4
Error-Free Seconds	X	X	X	X

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

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

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St. Louis, Missouri

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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:

Channel Mileage (mi)	Limit (dBrnCO)(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

(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.

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data(1) Service-(Continued) (CP)

C. Channel Interfaces

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

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

(RT)

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

D. Service to Service Through Connect Arrangement

This provides the interconnection of two subtending digital data channels derived from DS1 multiplexed services. The through connect will be provisioned in lieu of a typical MegaLink Data channel termination. The through connect will be provisioned for all MegaLink Data speeds; 4.8, 9.6, 19.2, 56 kbps and 64 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. (RT)

E. Optional Features, BSEs and Functions

I. Central Office Bridging BSE Capability

2. Transfer Arrangement

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

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

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

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service-(Continued)

C. Channel Interfaces

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

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

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

D. Service to Service Through Connect Arrangement

This provides the interconnection of two subtending digital data channels derived from DS1 multiplexed services. The through connect will be provisioned in lieu of a typical MegaLink Data channel termination. The through connect will be provisioned for all MegaLink Data speeds; 2.4,
(AT) 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

l. Central Office Bridging BSE Capability

2. Transfer Arrangement

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

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

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)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service-(Continued)

C. Channel Interfaces

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

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

(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.

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St. Louis, Missouri

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service-(Continued)

C. Channel Interfaces

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

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

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

(T) 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 (AT) services are terminated in two separate digital Hubs.

(FC) 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.

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(CT) 7.2.7 MegaLink Data Service-(Continued)

C. Channel Interfaces

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

CI	Bit Rate
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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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:

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

Compatible channel interfaces are set forth in 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)

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Southwestern Bell Telephone Company
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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 Digital Data Service-(Continued)

C. Channel Interfaces

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

CI	Bit Rate
DU-24	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.

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

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

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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 ±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 dBrnCO in 15 minutes shall be less than 15.

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data(1) Service-(Continued) (CP)

E. Optional Features, BSEs and Functions (Continued)

3. Secondary Channel Capability BSE

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

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

	Available with Technical Specifications Package DA-					
	1	2	3	4	5	6
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	

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

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.

	Available with Technical Specifications Package DA-					
(AT)	1	2	3	4	5	6
Central Office Bridging Capability	X	X	X	X	X	
Transfer Arrangement	X	X	X	X	X	X
(AT) Secondary Channel Capability	X	X	X	X	X	

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-			
	1	2	3	4
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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Southwestern Bell Telephone Company
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Section 7
2nd Revised Sheet 36.01
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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.7 MegaLink Data Service-(Continued)

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

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-			
	1	2	3	4
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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Section 7
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Replacing Original Sheet 36.01

ACCESS SERVICES

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-			
	1	2	3	4
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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Southwestern Bell Telephone Company
St. Louis, Missouri

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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
(NR) and monitoring of a customer's network.

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

	Available with Technical Specifications Package DA-			
	1	2	3	4
Central Office Bridging Capability	X	X	X	X
(MT) Transfer Arrangement	X	X	X	X
(AT) Secondary Channel Capability	X	X	X	X

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Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE

7.2 Service Descriptions (cont'd)

7.2.8 High Capacity Service

A. Basic Channel Description

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

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

B. Technical Specifications Packages

	Package HC-		
Parameters	0	1	3
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.
(2) Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE

7.2 Service Descriptions (cont'd)

7.2.8 High Capacity Service

A. Basic Channel Description

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

	Package HC-		
Parameters	0	1	3
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.

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE

7.2 Service Descriptions (cont'd)

7.2.8 High Capacity Service

A. Basic Channel Description

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

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

(RT)

B. Technical Specifications Packages

	Package HC-		
Parameters	0	1	3
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.

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
(RT)(FC) 1.544 Mbps transmission or (d) between a Network Reconfiguration Service Hub and a Telephone Company Hub at 1.544 Mbps transmission.

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

High Capacity Service is classified as competitive.

B. Technical Specifications Packages

	Package HC-		
Parameters	0	1	3
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.

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service

A. Basic Channel Description

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

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

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service

A. Basic Channel Description

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

	Package HC-		
	0	1	3
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.

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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
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-		
(RT)	0	1	3
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.

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

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

Access Services Tariff
Section 7
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) (AT) High Capacity Service was classified as transitionally competitive effective January 10, 1993.

B. Technical Specifications Packages

	Package HC			
	0	1	1C	2
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.

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

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

Access Services Tariff
Section 7
6th Revised Sheet 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.

(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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Effective: SEP 0 9 1991 SEP 3 0 1991

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

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

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

Parameters	Package HC- 0	1	1C	2	3	4
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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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
4th Revised Sheet 37
Replacing 3rd Revised Sheet 37

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service

A. Basic Channel Description

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

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

B. Technical Specifications Packages

	Package HC-					
Parameters	0	1	1C	2	3	4
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)

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

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Effective: MAR 26 1990

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 37
Replacing 2nd 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.

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

B. Technical Specifications Packages

	Package HC-					
	0	1	1C	2	3	4
Parameters						
Error-Free Seconds		X				

A channel with technical specifications package 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 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.

(CT)
(CT)

Issued: SEP 25 1989

Effective: OCT 1 1989 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 37
Replacing 1st Revised Sheet 37

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service

A. Basic Channel Description

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	X				

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

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

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

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

Access Services Tariff
Section 7
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-					
	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 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 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 37

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)

- 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^{o} peak-to-peak and over 4-300 Hz shall not exceed 10^{o} peak-to-peak.

- Frequency Shift

The frequency shift shall not exceed ± 1 Hz.

e. Available Facility Interface Combinations

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

7. Voice Grade 7 (VG7) Special Access Service

a. Description

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

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

C. Channel Interfaces

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

CI	Bit Rate
DS-l5(l)(2)	l.544 Mbps (DSl)
DS-44	44.736 Mbps (DS3)

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

D. Service to Service Through Connect Arrangement

1. High Capacity Service Arrangement

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

2. Multiplexed Service Arrangement

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

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

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-l5(l)(2)	l.544 Mbps (DSl)
DS-44	44.736 Mbps (DS3)

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

D. Service to Service Through Connect Arrangement

1. High Capacity Service Arrangement

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

2. Multiplexed Service Arrangement

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

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

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

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-l5(l)	l.544 Mbps (DSl)
DS-44	44.736 Mbps (DS3)

(RT)
(RT)
(RT)

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

D. Service to Service Through Connect Arrangement

1. High Capacity Service Arrangement

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

2. Multiplexed Service Arrangement

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

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

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 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 (AT) services are terminated in two separate digital hubs.

(MT)

(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

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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)

(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.

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 7.3.5, H., 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 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.

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JUN 22 1988

Effective: [redacted]
JUL 8 1988

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

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JUL 8 1988
88-287
Public Service Commission

(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 7.3.5 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.

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

Access Services Tariff
Section 7
1st Revised Sheet 38
Replacing Original Sheet 38

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)

Issued: AUG 15 1984

Effective: OCT 15 1984

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 38

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 on effective four-wire transmission.

Issued: DEC 29 1983 Effective: JAN 01 1984

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

E. Optional Features, BSEs and Functions

1.

2. Transfer Arrangement

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

3. Central Office Multiplexing BSE

a. DS3 to DSl

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

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. (TRT)

(TRT)

2. Transfer Arrangement

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

3. Central Office Multiplexing BSE

a. DS3 to DSl

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

E. Optional Features, BSEs and Functions

1. Automatic Loop Transfer BSE

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

2. Transfer Arrangement

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

3. Central Office Multiplexing BSE

(RT)
|
(RT)

(FC) a. DS3 to DSl

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

(RT)
|
(RT)

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

(AT) E. Optional Features, BSEs and Functions

(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.

(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.

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.

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

(FC) E. Optional Features and Functions

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

c. DS2 to DS1

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

(MT)

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

Access Services Tariff
Section 7
3rd Revised Sheet 39
Replacing 2nd 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 coverts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

c. DS2 to DS1

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

d. DS1C to DS1

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

e. DS1 to Voice

(CT) (RT) 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.

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

c. DS2 to DS1

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

d. DS1C to DS1

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

e. DS1 to Voice

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

f. DS1 to DS0

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

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

c. DS2 to DS1

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

d. DS1C to DS1

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

e. DS1 to Voice

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

f. DS1 to DS0

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

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-(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)

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:

Channel Mileage (mi)	Limit (dBrnCO)(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:

(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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

3. Central Office Multiplexing BSE-(Continued)

b. DS1 to Voice

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

c. DS1 to DSO

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

d. DSO to Subrate(1)

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps
or .6 kbps channels using digital time division multiplexing.

4. Clear Channel Capability BSE

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

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

3. Central Office Multiplexing BSE-(Continued)

b. DS1 to Voice

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

c. DS1 to DSO

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

d. DSO to Subrate(1) (CP)

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps
or .6 kbps channels using digital time division multiplexing.

4. Clear Channel Capability BSE

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

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

3. Central Office Multiplexing BSE-(Continued)

b. DS1 to Voice

An arrangement that converts a l.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. (RT)

c. DS1 to DSO

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

d. DSO to Subrate

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps
or .6 kbps channels using digital time division multiplexing.

4. Clear Channel Capability BSE

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

3. Central Office Multiplexing BSE-(Continued)

(RT)
|
|
(RT)

(FC) b. DSl to Voice

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

(FC) c. DSl to DSO

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

(FC) d. DSO to Subrate

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

4. Clear Channel Capability BSE

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

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

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

(AT) 3. Central Office Multiplexing BSE-(Continued)

d. DS1C to DS1

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

e. DS1 to Voice

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

f. DS1 to DS0

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

g. DS0 to Subrate

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

(AT) 4. Clear Channel Capability BSE

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

Issued: MAR 26 1993

Effective: APR 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 40
Replacing 2nd Revised Sheet 40

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

E. Optional Features and Functions-(Continued)

3. Central Office Multiplexing-(Continued)

d. DS1C to DS1

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

e. DS1 to Voice

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

f. DS1 to DS0

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

g. DS0 to Subrate

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

CANCELLED
APR 11 1993
BY 4th R.S. # 40
Public Service Commission
MISSOURI

4. Clear Channel Capability

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

DEC 4 1992

Issued: OCT - 5 1992

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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
2nd Revised Sheet 40
Replacing 1st Revised Sheet 40

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

3. Central Office Multiplexing-(Continued)

d. DS1C to DS1

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

e. DS1 to Voice

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

f. DS1 to DS0

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

g. DS0 to Subrate

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

(MT)
(AT) 4. Clear Channel Capability

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

Issued: FEB 22 1990 Effective: MAR 26 1990

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

5. Extended Superframe Format BSE

Extended Superframe Format is an optional feature that passes a customer provided framing format for l.544 Mbps High Capacity service. Extended Superframe Format extends the customer's 1.544 Mbps framing structure from 12 to 24 frames and divides the 8 kbps 193rd bit position pattern into three distinct functionalities: 2 kbps for frame synchronization, 2 kbps for cyclic redundancy checking, and 4 kbps used primarily to send performance monitoring information over the Facilities Data Link.

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

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

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

(RT)

7.2 Service Descriptions-(Continued)

(AT) 7.2.9 DovLink Service

A. Basic Channel Description

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

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

B. Technical Specifications Package

The technical specifications for the customer-provided data voice multiplexer are set forth in the appropriate Technical Reference for
(AT) DovLink Service listed in Paragraph 7.2, preceding.

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

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ACCESS SERVICE

(MT)

7. SPECIAL ACCESS SERVICE-(Continued)

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

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Access Services Tariff
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1st Revised Sheet 40
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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

D. Optional Features and Functions-(Continued)

3. Central Office Multiplexing-(Continued)

g. DSO to Subrate

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

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

	Available with Technical Specifications Package HC-					
	0	1	1C	2	3	4
Automatic Loop Transfer		X				
Central Office Multiplexing:						
DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DSO		X				
DSO to Subrate(1)	X					
Transfer Arrangement		X				

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

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Access Services Tariff
Section 7
Original Sheet 40

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

d. Transmission Performance-(Continued)

- Echo Control-(Continued)

Effective Two-Wire Transmission

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

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

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

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

(AT) 5. Extended Superframe Format BSE

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

6. Power Over The Interface

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

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Access Services Tariff
Section 7
1st Revised Sheet 40.01
Replacing Original Sheet 40.01

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

E. Optional Features and Functions-(Continued)

(MT)

(AT) 5. Extended Superframe Format

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

6. Power Over The Interface

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

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Access Services Tariff
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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

E. Optional Features and Functions-(Continued)

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

	Available with Technical Specifications Package HC-					
	0	1	1C	2	3	4
Automatic Loop Transfer		X				
Central Office Multiplexing:						
DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DS0		X				
DS0 to Subrate(1)	X					
Transfer Arrangement		X				
Clear Channel Capability		X				

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

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

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

	Available with Technical Specifications Package HC-		
	0	1	3
Transfer Central Office Multiplexing:		X	
DS3 to DS1			X
DSI to Voice		X	
DSI to DSO		X	
DSO to Subrate(1)(3)		X	
Transfer Arrange-ment		X	
Clear Channel Capability		X	
Extended Superframe Format		X	
Power Over the Interface(2)		X	

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

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

	Available with Technical Specifications Package HC-			
	0	1	3	
Transfer Central Office Multiplexing:		X		
DS3 to DS1			X	
DSI to Voice		X		
DSI to DSO		X		
DSO to Subrate(1)(3)		X		(CP)
Transfer Arrangement		X		
Clear Channel Capability		X		
Extended Superframe Format		X		
Power Over the Interface(2)		X		

(1) Available only on a channel of a l.544 Mbps facility to a Telephone Company Hub or on a DS0 channel that connects to a customer's Network Reconfiguration Service (NRS) Network that contains a DS1 channel.

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

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

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

	Available with Technical Specifications Package HC-		
	0	1	3
(RT) Transfer Central Office Multiplexing:		X	
DS3 to DS1			X
DSl to Voice		X	
DSl to DSO		X	
DSO to Subrate(1)	X		
Transfer Arrange-ment		X	
Clear Channel Capability		X	
Extended Superframe Format		X	
Power Over the Interface(2)		X	

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

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

	Available with Technical Specifications Package HC-		
	0	l	3
Automatic Loop Transfer		X	
Central Office Multiplexing:			
DS3 to DSl			X
DSl to Voice		X	
DSl to DSO		X	
DSO to Subrate(l)	X		
Transfer Arrangement		X	
Clear Channel Capability		X	
Extended Superframe Format		X	
(CP) Power Over the Interface(2)		X	

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

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

Access Services Tariff
Section 7
5th Revised Sheet 41
Replacing 4th Revised Sheet 41

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

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

	Available with Technical Specifications Package HC-		
	0	1	3
Automatic Loop Transfer		X	
Central Office Multiplexing:			
(RT) DS3 to DS1			X
(RT) DS1 to Voice		X	
(RT) DS1 to DS0		X	
DS0 to Subrate(1)	X		
Transfer Arrangement		X	
Clear Channel Capability		X	
Extended Superframe Format		X	
Power Over the Interface		X	

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

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Section 7
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Replacing 3rd Revised Sheet 41

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

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

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

	Available with Technical Specifications Package HC-					
	0	1	1C	2	3	4
Automatic Loop Transfer		X				
Central Office Multiplexing:						
DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DS0		X				
DS0 to Subrate(1)	X					
Transfer Arrangement		X				
Clear Channel Capability		X				
Extended Superframe Format		X				
Power Over the Interface		X				

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

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Replacing 2nd Revised Sheet 41

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

7.2.8 High Capacity Service-(Continued)

E. Optional Features and Functions-(Continued)

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

	Available with Technical Specifications Package HC-					
	0	1	1C	2	3	4
Automatic Loop Transfer		X				
Central Office Multiplexing:						
DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DS0		X				
DS0 to Subrate(1)	X					
Transfer Arrangement		X				
Clear Channel Capability		X				
(AT) Extended Superframe Format		X				
Power Over the (AT) Interface		X				

(MT)

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

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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

(RT)

(RT)

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7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes

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

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

NT = Metallic channel with a predefined technical specification package
2 = Number of physical wires at IC terminal location
DC = Facility interface for direct current or voltage
8 = Variable impedance level
3 = Metallic facilities (DC continuity) for direct current/low-frequency control signals or slow-speed data (30 baud)

7.3.1 Glossary of Channel Interface Codes and Options

Code	Option	Definition
AB	-	accepts 20 Hz ringing signal at IC point of termination
AC	-	accepts 20 Hz ringing signal at End User's point of termination
	- R	code selective multipoint ringing
AH	-	analog high capacity interface
	- B	60 kHz to 108 kHz (12 channels)
	- C	312 kHz to 552 kHz (60 channels)
	- D	564 kHz to 3084 kHz (600 channels)
CT	-	Centrex tie-trunk termination
DA	-	data stream in VF frequency band at End User's point of termination
	- S	sealing current source and sink provided by Southwestern Bell Telephone
DB	-	data stream in VF frequency band at IC point of termination location
	- 10	VF for TG1 and TG2
	- 43	VF for 43 telegraph carrier-type signals, TG1 and TG2

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

d. Transmission Performance-(Continued)

- Echo Control-(Continued)

Effective Four-Wire Transmission

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

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

- Improved Return Loss

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

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

- Loss Variation

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

- Attenuation Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +2.0 dB with reference to 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.

- Signal-to-C Notch Noise

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

(RT)

7.2 Service Descriptions-(Continued)

(RT)

(RT)

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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

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

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

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

(RT)

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(AT) 7.2.9 DovLink Service-(Continued)

C. Channel Interfaces

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

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

D. Optional Features and Functions

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

(1) Central Office Bridging Capability

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

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

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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

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

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

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

d. Transmission Performance-(Continued)

- Envelope Delay Distortion

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

- Impulse Noise

The number of impulse noise counts exceeding a threshold of 67 dBrnC0 in 15 minutes shall be less than 15.

- Intermodulation Distortion

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

- Phase Jitter

The phase jitter over 20-300 Hz shall not exceed 5^{o} peak-to-peak and over 4-300 Hz shall not exceed 10^{o} peak-to-peak.

- Frequency Shift

The frequency shift shall not exceed ±1 Hz.

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

(RT)

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Access Services Tariff
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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(AT) 7.2.10 Business Video Service

A. Basic Channel Description

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

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

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

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

Business Video I

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

Business Video II

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

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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

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

Code	Option	Definition
DU	-	digital access interface
	- 24	2.4 kbps
	- 48	4.8 kbps
	- 56	56.0 kbps
	- 96	9.6 kbps
	- A	1.544 Mbps format per PUB 41451
	- B	1.544 Mbps format per PUB 41451 plus D4
	- C	1.544 Mbps format per PUB 41451 plus extended framing format
DX	-	duplex signaling interface at IC POT
DY	-	duplex signaling interface at End User's POT
EA	- E	Type I E&M Lead Signaling. IC at POT or End User at POT originates on E Lead.
EA	- M	Type I E&M Lead Signaling. IC at POT or End User at POT originates on M Lead.
EB	- E	Type II E&M Lead Signaling. IC at POT or End User at POT originates on E Lead.
EB	- M	Type II E&M Lead Signaling. IC at POT or End User at POT originates on M Lead.
EC	-	Type III E&M signaling at IC terminal POT
EX	- A	tandem channel unit signaling for loop start or ground start and IC supplies open end (dial tone, etc.) functions.
EX	- B	tandem channel unit signaling for loop start or ground start and IC supplies closed end (dial tone, etc.) functions.

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ACCESS SERVICES

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)

e. Available Facility Interface Combinations

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

8. Voice Grade 8 (VG8) Special Access Service

a. Description

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

b. Illustrative Application

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

- SSN Access Line
- SSN Station Line

c. Optional Features

- C-Conditioning
- IC specified End User's premises receive level within a range acceptable to the Telephone Company.

(RT)

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Original Sheet 43

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)

e. Available Facility Interface Combinations

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

8. Voice Grade 8 (VG8) Special Access Service

a. Description

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

b. Illustrative Application

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

- SSN Access Line
- SSN Station Line

c. Optional Features

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

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(RT)

(RT)

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.2 Service Descriptions-(Continued)

(AT) 7.2.10 Business Video Service-(Continued)

A. Basic Channel Description-(Continued)

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

B. Technical Specifications Packages

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

C. Channel Interfaces

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

CI	Audio Bandwidth	Provision
14TV6-7	7kHz	2-Way (Transport)

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

D. Optional Features and Functions

1. Split Screen Capability

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

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Access Services Tariff
Section 7
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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

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

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

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Access Services 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)

8. Voice Grade 8 (VG8) Special Access Service-(Continued)

c. Optional Features-(Continued)

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

d. Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

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, 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.

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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

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

Code	Option	Definition
NO	-	no signaling interface, transmission only
	- S	sealing current source provided by Southwestern Bell Telephone, sink provided by customer
PG	-	program transmission - no dc signaling
	- 1	nominal frequency from 50 to 15,000 Hz
	- 3	nominal frequency from 200 to 3,500 Hz
	- 5	nominal frequency from 100 to 5000 Hz
	- 8	nominal frequency from 50 to 8,000 Hz
PR	-	protective relaying(1)
RV	- 0	reverse battery signaling, one-way operation, originate by IC
	- T	reverse battery signaling, one-way operation, terminate function by IC or End User
SF	-	single frequency signaling within VF band at either IC POT or End User's POT
TT	-	telegraph/teletypewriter interface at either IC POT or End User's POT
	- 2	20.0 milliamperes
	- 3	3.0 milliamperes
	- 6	62.5 milliamperes
WA	-	wideband bandwidth interface at End User's POT
	- 1	limited bandwidth
	- 2	nominal passband from 29,000 to 44,000 Hz
WB	-	wideband data interface at IC POT
	- 18S	18.75 kbps, synchronous
	- 19A	up to 19.2 kbps asynchronous
	- 19S	19.2 kbps synchronous
	- 23A	up to 230.4 kbps, asynchronous
	- 23S	230.4 kbps, synchronous
	- 40S	40.8 kbps, synchronous
	- 50A	up to 50.0 kbps, asynchronous
	- 50S	50.0 kbps, synchronous

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

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

8. Voice Grade 8 (VG8) Special Access Service-(Continued)

d. Transmission Performance-(Continued)

- Echo Control-(Continued)

Effective Four-Wire Transmission

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

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

- Improved Return Loss

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

Standard RL		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 +1.0 dB.

- Attenuation Distortion

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

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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

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

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

7.3.2 Impedance

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

Value (ohms)	Code(s)
110	0
150	1
600	2
900	3
135	5
75	6
124	7
Variable	8
100	9

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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)

8. Voice Grade 8 (VG8) Special Access Service-(Continued)

d. Transmission Performance-(Continued)

- Signal-to-C Notch Noise

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

- Envelope Delay Distortion

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

- Impulse Noise

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

- Intermodulation Distortion

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

- Phase Jitter

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

- Frequency Shift

The frequency shift shall not exceed ±1 Hz.

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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.3 Digital Hierarchy Channel Interface Codes (4DS)

This interface is available to customers that select the multiplexed four-wire DSX-1 or higher facility interface option at the customer-designated premises and provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS9, 4DSO or 4DS6 plus the speed options indicated below:

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

7.3.4 Service Designator/Network Channel Code Conversion Table

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

Service Designator Code	Network Channel Code
MTC	MQ
MT1	NT
MT2	NU
MT3	NV
TGC	NQ
TG1	NW
TG2	NY
VGC	LQ
VG1	LB
VG2	LC

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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)

8. Voice Grade 8 (VG8) Special Access Service-(Continued)

e. Available Facility Interface Combinations

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

9. Voice Grade 9 (VG9) Special Access Service

a. Description

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

b. Illustrative Application

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

c. Optional Features

- C-Conditioning
- 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.

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

8. Voice Grade 8 (VG8) Special Access Service-(Continued)

e. Available Facility Interface Combinations

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

9. Voice Grade 9 (VG9) Special Access Service

a. Description

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

b. Illustrative Application

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

c. Optional Features

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

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

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

	Service Designator Code	Network Channel Code
	VG3	LD
	VG4	LE
	VG5	LF
	VG6	LG
	VG7	LH
	VG8	LJ
	VG9	LK
	VG10	LN
	VG11	LP
	VG12	LR
(AT)	VGW	SE (standard)
(AT)	VGW	SF (improved)
	APC	PQ
	AP1	PE
	AP2	PF
	AP3	PJ
	AP4	PK
	WA1	WJ
	WA1T	WQ
	WA2	WL
	WA2A	WR
	WA3	WN
	WA4	WP
	WD1	WB
	WD2	WE
	WD3	WF
	DA1	XA
	DA2	XB
	DA3	XG
	DA4	XH
	HC0	HS
	HC1	HC
	HC1C	HD
	HC2	HE
	HC3	HF
	HC4	HG

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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

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

Service Designator Code	Network Channel Code
VG3	LD
VG4	LE
VG5	LF
VG6	LG
VG7	LH
VG8	LJ
VG9	LK
VG10	LN
VG11	LP
VG12	LR
APC	PQ
AP1	PE
AP2	PF
AP3	PJ
AP4	PK
WA1	WJ
WA1T	WQ
WA2	WL
WA2A	WR
WA3	WN
WA4	WP
WD1	WB
WD2	WE
WD3	WF
DA1	XA
DA2	XB
DA3	XG
DA4	XH
HCO	HS
HC1	HC
HC1C	HD
HC2	HE
HC3	HF
HC4	HG

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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)

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

d. Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

Channel Mileage (mi)	Limit (dBrnCO)(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

- 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 Distortion

The attenuation distortion between 404 Hz and 2804 Hz shall be within -1.0 dB and +2.0 dB with reference to the loss at 1004 Hz and between 304 Hz and 3004 Hz shall be within -3.0 dB and 12.0 dB (minus equals less loss, plus equals more loss).

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

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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces

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

A. Metallic

Compatible CI's		Compatible CI's	
4AH5-B**	2DC8-1	4AH6-D**	2DC8-2
4AH5-B**	2DC8-2	2DC8-1	2DC8-2
4AH6-C**	2DC8-1	2DC8-3	2DC8-3
4AH6-C**	2DC8-2	4DS9*	2DC8-1
4AH6-D**	2DC8-1	4DS9*	2DC8-2

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

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

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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)

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

d. Transmission Performance-(Continued)

- Signal-to-C Notch Noise

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

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

- Impulse Noise

The number of impulse noise counts exceeding a threshold of 67 dBrnC0 in 15 minutes shall be less than 15.

- Intermodulation Distortion

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

- Phase Jitter

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

- Frequency Shift

The frequency shift shall not exceed ±1 Hz.

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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

B. Telegraph Grade

Compatible CI's		Compatible CI's		Compatible CI's	
10IA8	10IA8			4DB2-43 +	2TT2-2
4AH5-B**	10IA8	4AH6-D**	4TT2-6	4DB2-43 +	4TT2-2
				4DB2-43 +	4TT2-6
				4DB2-43 +	4DB2-43 +
4AH5-B**	2TT2-2	2DB2-10	10IA8	4DS9*	10IA8
4AH5-B**	4TT2-2	2DB2-10	2TT2-2	4DS9*	2TT2-2
4AH5-B**	2TT2-6	2DB2-10	4TT2-2	4DS9*	4TT2-2
		2DB2-10	2TT2-6		
4AH5-B**	4TT2-6	2DB2-43 +	10IA8	4DS9*	2TT2-6
4AH6-C**	10IA8	2DB2-43 +	2TT2-2	4DS9*	4TT2-6
4AH6-C**	2TT2-2	2DB2-43 +	2TT2-6	2TT2-2	2TT2-2
4AH6-C**	4TT2-2	2DB2-43 +	4TT2-2	2TT2-3 ++	2TT2-2
		2DB2-43 +	4TT2-6		
4AH6-C**	2TT2-6	4DB2-10	10IA8	2TT2-3 ++	4TT2-2
4AH6-C**	4TT2-6	4DB2-10	2TT2-2	2TT2-6	2TT2-6
4AH6-D**	10IA8	4DB2-10	4TT2-2	2TT2-6	4TT2-2
		4DB2-10	2TT2-6		
4AH6-D**	2TT2-2	4DB2-43 +	10IA8	4TT2-2	4TT2-2
4AH6-D**	4TT2-2	4DB2-43 +	2TT2-6		
4AH6-D**	2TT2-6			4TT2-6	4TT2-6

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

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Access Services 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)

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

e. Available Facility Interface Combinations

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

10. Voice Grade 10 (VG10) Special Access Service

a. Description

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

b. Illustrative applications

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

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

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Section 7
1st Revised Sheet 51
Replacing Original Sheet 51

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade

Compatible CIs		Compatible CIs		Compatible CIs	
4AB2	4AB2	4AH5-B+	2CT3	4AH6-D+	4DE2
		4AH6-C+	2CT3		
4AB2	2AC2	4AH6-D+	2CT3	4AH5-B+	4DX2
4AB2	2AC2R			4AH6-C+	4DX2
4AB2	4AC2	4AH5-B+	2DA2	4AH6-D+	4DX2
4AB2	4AC2R	4AH6-C+	2DA2		
		4AH6-D+	2DA2	4AH5-B+	4DY2
4AB2	4SF2	4AH5-B+	4DA2	4AH6-C+	4DY2
		4AH5-B+	4DA2S	4AH6-D+	4DY2
2AC2	2AC2	4AH6-C+	4DA2		
2AC2	4AC2	4AH6-C+	4DA2S		
4AC2	4AC2	4AH6-D+	4DA2		
		4AH6-D+	4DA2S		
4AH5-B+	4AB2	4AH5-B+	6DA2		
4AH6-C+	4AB2	4AH5-B+	6DA2S		
4AH6-D+	4AB2	4AH6-C+	6DA2		
		4AH6-C+	6DA2S		
4AH5-B+	2AC2	4AH6-D+	6DA2	4AH5-B+	4EA2-E
4AH5-B+	2AC2R	4AH6-D+	6DA2S	4AH5-B+	4EA2-M
4AH6-C+	2AC2				
4AH6-C+	2AC2R	4AH5-B+	4DB2	4AH6-C+	4EA2-E
4AH6-D+	2AC2	4AH6-C+	4DB2	4AH6-C+	4EA2-M
4AH6-D+	2AC2R	4AH6-D+	4DB2		
4AH5-B+	4AC2			4AH6-D+	4EA2-E
4AH5-B+	4AC2R	4AH5-B+	2DE2	4AH6-D+	4EA2-M
4AH6-C+	4AC2	4AH6-C+	2DE2	4AH5-B+	6EA2-E
4AH6-C+	4AC2R	4AH6-D+	2DE2	4AH5-B+	6EA2-M
4AH6-D+	4AC2	4AH5-B+	4DE2	4AH6-C+	6EA2-E
4AH6-D+	4AC2R	4AH6-C+	4DE2	4AH6-C+	6EA2-M

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

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Access Services Tariff
Section 7
Original Sheet 51

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

10. Voice Grade 10 (VG10) Special Access Service-(Continued)

c. Optional Features

- Central office bridging capability.
- Improved return loss at four-wire point of interface, applicable to each two-wire leg of effective four-wire channel.
- C-Conditioning
- DA-Conditioning

d. Transmission Performance

- C-Message Noise

The C-Message Noise shall be less than:

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

- 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 15 dB	ERL 20 dB
SRL 2.5 dB	SRL 13.5 dB

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

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Access Services Tariff
Section 7
1st Revised Sheet 52
Replacing Original Sheet 52

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

Compatible CIs		Compatible CIs		Compatible CIs	
4AH6-D+	6EA2-E	4AH6-C+	2GS3-C	4AH6-C+	2LR2
4AH6-D+	6EA2-M	4AH6-C+	2GS3-M	4AH6-D+	2LR2
		4AH6-D+	2GS2	4AH5-B+	4LR2
4AH5-B+	6EB2-E	4AH6-D+	2GS2-M	4AH6-C+	4LR2
4AH5-B+	6EB2-M	4AH6-D+	2GS3	4AH6-D+	4LR2
4AH6-C+	6EB2-E	4AH6-D+	2GS3-C		
4AH6-C+	6EB2-M	4AH6-D+	2GS3-M	4AH5-B+	2LS2
4AH6-D+	6EB2-E	4AH5-B+	4GS2	4AH5-B+	2LS2-M
4AH6-D+	6EB2-M	4AH6-C+	4GS2	4AH5-B+	2LS3
4AH5-B+	8EB2-E	4AH6-D+	4GS2	4AH5-B+	2LS3-M
4AH5-B+	8EB2-M	4AH5-B+	6GS2	4AH6-C+	2LS2
4AH6-C+	8EB2-E	4AH6-C+	6GS2	4AH6-C+	2LS2-M
4AH6-C+	8EB2-M	4AH6-D+	6GS2	4AH6-C+	2LS3
4AH6-D+	8EB2-E			4AH6-C+	2LS3-M
4AH6-D+	8EB2-M	4AH5-B+	2LA2	4AH6-D+	2LS2
		4AH6-C+	2LA2	4AH6-D+	2LS2-M
		4AH6-D+	2LA2	4AH6-D+	2LS3
				4AH6-D+	2LS3-M
		4AH5-B+	2LB2	4AH5-B+	4LS2
		4AH6-C+	2LB2	4AH6-C+	4LS2
		4AH6-D+	2LB2	4AH6-D+	4LS2
				4AH5-B+	2NO2
4AH5-B+	2GO3	4AH5-B+	2LC2	4AH6-C+	2NO2
4AH6-C+	2GO3	4AH6-C+	2LC2	4AH6-D+	2NO2
4AH6-D+	2GO3	4AH6-D+	2LC2	4AH5-B+	4NO2
				4AH5-B+	4NO2-S
4AH5-B+	2GS2	4AH5-B+	2LO3	4AH6-C+	4NO2
4AH5-B+	2GS2-M	4AH6-C+	2LO3	4AH6-C+	4NO2-S
4AH5-B+	2GS3	4AH6-D+	2LO3	4AH6-D+	4NO2
4AH5-B+	2GS3-C			4AH6-D+	4NO2-S
4AH5-B+	2GS3-M			4AH5-B+	2PR2
4AH6-C+	2GS2			4AH6-C+	2PR2
4AH6-C+	2GS2-M			4AH6-D+	2PR2
4AH6-C+	2GS3	4AH5-B+	2LR2	4AH5-B+	4PR2

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

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Access Services Tariff
Section 7
Original Sheet 52

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

10. Voice Grade 10 (VG10) Special Access Service-(Continued)

d. Transmission Performance-(Continued)

- Loss Variation

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

- Attenuation Distortion

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

- Signal-to-C Notch Noise

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

- Envelope Delay Distortion

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

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Section 7
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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

Compatible CIs		Compatible CIs		Compatible CIs	
4AH6-C+	4PR2	2CT3	8EB2-M	2DB2	2NO2
4AH6-D+	4PR2			4DB2	2NO2
		2CT3	8EC2	4DB2	4NO2
4AH5-B+	2RV2-T			4DB2	4NO2-S
4AH6-C+	2RV2-T	2CT3	4SF2		
4AH6-D+	2RV2-T			2DB3	2PR2
4AH5-B+	4RV2-T	2DA2	2DA2	4DB2	2PR2
4AH6-C+	4RV2-T	4DA2	2DA2	4DB2	4PR2
4AH6-D+	4RV2-T	4DA2-S	2DA2		
		4DA2	4DA2	4DD3	2DE2
4AH5-B+	2TF2	4DA2	4DA2-S	4DD3	4DE2
4AH6-C+	2TF2	4DA2-S	4DA2-S		
4AH6-D+	2TF2	6DA2	2DA2	4DS9-*	4AB2
4AH5-B+	4TF2	6DA2-S	2DA2		
4AH6-C+	4TF2	6DA2	4DA2	4DS9-*	2AC2
4AH6-D+	4TF2	6DA2	4DA2-S	4DS9-*	2AC2-R
		6DA2-S	4DA2	4DS9-*	4AC2
2CT3	2CT3	6DA2-S	4DA2-S	4DS9-*	4AC2-R
		6DA2	6DA2		
		6DA2	6DA2-S	4DS9-*	2CT3
2CT3	4DX2	6DA2-S	6DA2-S		
				4DS9-*	2DA2
2CT3	4EA2-E	2DB2	2DA2	4DS9-*	4DA2
2CT3	4EA2-M	4DB2	2DA2	4DS9-*	4DA2-S
2CT3	6EA2-E	4DB2	4DA2	4DS9-*	6DA2
2CT3	6EA2-M	4DB2	4DA2-S	4DS9-*	6DA2-S
		4DB2	6DA2		
2CT3	6EB2-E	4DB2	6DA2-S	4DS9-*	4DB2
2CT3	6EB2-M			4DS9-*	2DE2
2CT3	8EB2-E	4DB2	4DB2	4DS9-*	4DE2

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

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

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Section 7
Original Sheet 53

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

10. Voice Grade 10 (VG10) Special Access Service-(Continued)

d. Transmission Performance-(Continued)

- Impulse Noise

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

- Intermodulation Distortion

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

- Phase Jitter

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

- Frequency Shift

The frequency shift shall not exceed ± 3 Hz.

e. Available Facility Interface Combinations

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

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Access Services Tariff
Section 7
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Replacing Original Sheet 54

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

Compatible CIs		Compatible CIs		Compatible CIs	
4DS9-*	4DX2	4DS9-*	2LO3	4DX2	6EA2-E
				4DX2	6EA2-M
4DS9-*	4DY2	4DS9-*	2LR2		
		4DS9-*	4LR2		
				4DX2	6EB2-E
		4DS9-*	2LS2	4DX2	6EB2-M
		4DS9-*	2LS2-M	4DX2	8EB2-E
4DS9-*	4EA2-E	4DS9-*	2LS3	4DX2	8EB2-M
4DS9-*	4EA2-M	4DS9-*	2LS3-M		
4DS9-*	6EA2-E	4DS9-*	4LS2	4DX2	8EC2
4DS9-*	6EA2-M				
		4DS9-*	2NO2	4DX2	2LS2
		4DS9-*	4NO2		
4DS9-*	6EB2-E	4DS9-*	4NO2-S	4DX2	2RV2-T
4DS9-*	6EB2-M			4DX2	4RV2-T
4DS9-*	8EB2-E	4DS9-*	2PR2		
4DS9-*	8EB2-M	4DS9-*	4PR2	4DX2	4SF2
4DS9-*	2GO3	4DS9-*	2RV2-T	6EA2-E	4DY2
		4DS9-*	4RV2-T	6EA2-M	4DY2
4DS9-*	2GS2				
4DS9-*	2GS2-M	4DS9-*	4SF2		
4DS9-*	2GS3				
4DS9-*	2GS3-C	4DS9-*	2TF2		
4DS9-*	2GS3-M	4DS9-*	4TF2		
4DS9-*	4GS2				
4DS9-*	6GS2	4DX2	4DX2	4EA2-E	4EA2-E
				4EA2-E	4EA2-M
4DS9-*	2LA2	4DX2	4DY2	4EA2-M	4EA2-M
4DS9-*	2LB2			6EA2-E	4EA2-E
		4DX2	4EA2-E	6EA2-E	4EA2-M
4DS9-*	2LC2	4DX2	4EA2-M		
				6EA2-M	4EA2-E

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

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Access Services Tariff
Section 7
Original Sheet 54 (C)

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)

11. Voice Grade 11 (VG11) Special Access Service

Reserved For Future Use

12. Voice Grade 12 (VG12) Special Access Service

Reserved For Future Use

13. Voice Grade 13 (VG13) Special Access Service

Reserved For Future Use

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Access Services Tariff
Section 7
2nd Revised Sheet 55
Replacing ~~1st Revised Sheet 55~~

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

Compatible CIs		Compatible CIs		Compatible CIs	
6EA2-M	4EA2-M	4EA2-E	4SF2	8EB2-M	4RV2-T
6EA2-E	6EA2-E	4EA2-M	4SF2		
6EA2-E	6EA2-M	6EA2-E	4SF2	6EB2-E	4SF2
6EA2-M	6EA2-M	6EA2-M	4SF2	6EB2-M	4SF2
				8EB2-E	4SF2
				8EB2-M	4SF2
		8EB2-E	4DY2		
4EA2-E	6EB2-E	8EB2-M	4DY2	8EC2	4DY2
4EA2-E	6EB2-M				
4EA2-M	6EB2-E				
4EA2-M	6EB2-M			8EC2	4EA2-E
4EA2-E	8EB2-E	8EB2-E	4EA2-E	8EC2	4EA2-M
4EA2-E	8EB2-M	8EB2-E	4EA2-M	8EC2	6EA2-E
4EA2-M	8EB2-E	8EB2-M	4EA2-E	8EC2	6EA2-M
4EA2-M	8EB2-M	8EB2-M	4EA2-M		
6EA2-E	6EB2-E				
6EA2-E	6EB2-M	6EB2-E	6EB2-E	8EC2	6EB2-E
6EA2-M	6EB2-E	6EB2-E	6EB2-M	8EC2	6EB2-M
6EA2-M	6EB2-M	6EB2-M	6EB2-M	8EC2	8EB2-E
6EA2-E	8EB2-E	8EB2-E	6EB2-E	8EC2	8EB2-M
6EA2-E	8EB2-M	8EB2-E	6EB2-M		
6EA2-M	8EB2-E	8EB2-M	6EB2-E	6EX2-B	2GO2
6EA2-M	8EB2-M	8EB2-M	6EB2-M	6EX2-B	2GO3
		8EB2-E	8EB2-E		
		8EB2-E	8EB2-M	6EX2-A	2GS2
		8EB2-M	8EB2-M	6EX2-A	2GS2-M
6EA2-E	2LS2			6EX2-A	2GS3
6EA2-M	2LS2	8EB2-E	2LS2	6EX2-A	2GS3-C
		8EB2-M	2LS2	6EX2-A	2GS3-M
6EA2-E	2RV2-T			6EX2-A	4GS2
6EA2-M	2RV2-T	8EB2-E	2RV2-T	6EX2-A	6GS2
6EA2-E	4RV2-T	8EB2-M	2RV2-T		
6EA2-M	4RV2-T	8EB2-E	4RV2-T	6EX2-B	2LA2

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St. Louis, Missouri

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

14. Available Facility Interface (FI) Combinations

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

	FI Combinations		Voice Grade Service (VG)												
	IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13
	4AB2	4AC2		X											
	4AB2	2AC2		X											
	4AH6-D(1)	4AC2		X											
	4AH6-D(1)	2AC2		X											
	4AH6-C(1)	4AC2		X											
	4AH6-C(1)	2AC2		X											
	4AH5-B(1)	4AC2		X											
	4AH5-B(1)	2AC2		X											
(AT)	4AH6-D(1)	6DA2						X				X			
	4AH6-C(1)	6DA2						X				X			
	4AH5-B(1)	6DA2						X				X			
(AT)	4AH6-D(1)	4DA2					X	X							
	4AH6-C(1)	4DA2					X	X							
	4AH5-B(1)	4DA2					X	X							
	4AH6-D(1)	2DA2					X								
	4AH6-C(1)	2DA2					X								
AT)	4AH5-B(1)	2DA2					X								
	4AH6-D(1)	4DE2					X								
	4AH6-C(1)	4DE2					X								
	4AH5-B(1)	4DE2					X								
(AT)	4AH6-D(1)	2DE2					X								
	4AH6-C(1)	2DE2					X								
(AT)	4AH5-E(1)	2DE2					X								

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

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

Access Services Tariff
Section 7
Original Sheet 55

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

14. Available Facility Interface (FI) Combinations

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

FI Combinations		Voice Grade Service (VG)												
IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13
4AB2	4AC2		X											
4AB2	2AC2		X											
4AH6-D(1)	4AC2		X											
4AH6-D(1)	2AC2		X											
4AH6-C(1)	4AC2		X											
4AH6-C(1)	2AC2		X											
4AH5-B(1)	4AC2		X											
4AH5-B(1)	2AC2		X											
4AH6-D(1)	6DA2										X			
4AH6-C(1)	6DA2						X				X			
4AH5-B(1)	6DA2						X				X			
4AH6-D(1)	4DE2					X								
4AH6-C(1)	4DE2					X								
4AH5-B(1)	4DE2					X								

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

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Access Services Tariff
Section 7
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(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

Compatible CIs		Compatible CIs		Compatible CIs	
6EX2-B	2LB2	2LO2	2LS2	4NO2	2DA2
		2LO2	2LS3	4NO2-S	2DA2
6EX2-B	2LC2	2LO3	2LS2	4NO2	4DA2
		4LO2	2LS2	4NO2	4DA2-S
		4LO2	2LS2-M	4NO2-S	4DA2
6EX2-B	2LO3	4LO2	2LS3	4NO2-S	4DA2-S
		4LO2	2LS3-M	4NO2	6DA2
6EX2-B	2LR2	4LO2	4LS2	4NO2	6DA2-S
6EX2-B	4LR2			4NO2-S	6DA2
		2LR2	2LR2	4NO2-S	6DA2-S
6EX2-A	2LS2	4LR2	2LR2		
6EX2-A	2LS2-M	4LR2	4LR2	4NO2	2DE2
6EX2-A	2LS3			4NO2-S	2DE2
6EX2-A	2LS3-M	2LS2	2GO2	4NO2	4DE2
6EX2-A	4LS2	2LS2	4GO2	4NO2-S	4DE2
		2LS3	2GO2		
2GO2	2GS2	2LS3	4GO2	2NO2	2NO2
2GO2	2GS3-C	4LS2	2GO2	2NO3	2NO2
2GO3	2GS2	4LS2	4GO2	2NO2	4NO2-S
2GO3	2GS3			4NO2	2NO2
4GO2	2GS2	2LS2	2LA2	4NO2	4NO2
4GO2	2GS2-M	4LS2	2LA2	4NO2	4NO2-S
4GO2	2GS3			4NO2-S	4NO2-S
4GO2	2GS3-C	2LS2	2LB2		
4GO2	2GS3-M	4LS2	2LB2	2NO3	2PR2
4GO2	4GS2			4NO2	4PR2
4GO2	6GS2	2LS2	2LC2		
		4LS2	2LC2	4RV2-O	2RV2-T
4GS2	2GO2			4RV2-O	4RV2-T
4GS2	2GO3	4LS2	2LO2		
		4LS2	2LO3	4SF2	2AC2
2GS2	2LO2			4SF2	2AC2-R
2GS2	4LO2	2NO2	2DA2	4SF2	4AC2
2GS3-C	2LO2	2NO2	4DA2	4SF2	4AC2-R
2GS3-C	4LO2	2NO2	4DA2-S		
4GS2	2LO2	2NO2	6DA2	4SF2	4DY2
4GS2	4LO2	2NO2	6DA2-S		
				4SF2	2GO3

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Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

	FI Combinations		Voice Grade Service (VG)											
	IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13
(CT)	4AH6-D(1)	4DX2									X				
	4AH6-C(1)	4DX2									X				
	4AH5-B(1)	4DX2									X				
	4AH6-D(1)	9DY2			X				X	X					
	4AH6-D(1)	6DY2			X				X	X					
	4AH6-D(1)	4DY2			X				X	X					
	4AH6-C(1)	9DY2			X				X	X					
	4AH6-C(1)	6DY2			X				X	X					
	4AH6-C(1)	4DY2			X				X	X					
	4AH5-B(1)	9DY2			X				X	X					
	4AH5-B(1)	6DY2			X				X	X					
	4AH5-B(1)	4DY2			X				X	X					
	4AH6-D(1)	9EA2			X				X	X					
	4AH6-D(1)	6EA2-E			X				X	X					
	4AH6-D(1)	6EA2-M			X				X	X	X				
	4AH6-D(1)	4EA2-E			X				X	X					

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

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

Access Services Tariff
Section 7
Original Sheet 56

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

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

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

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Southwestern Bell Telephone Company
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Access Services Tariff
Section 7
2nd Revised Sheet 57
Replacing 1st Revised Sheet 57

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

Compatible CIs	
4SF2	2GS2
4SF2	2GS2-M
4SF2	2GS3
4SF2	2GS3-C
4SF2	2GS3-M
4SF2	4GS2
4SF2	6GS2
4SF2	2LA2
4SF2	2LB2
4SF2	2LC2
4SF2	2LO3
4SF2	2LR2
4SF2	4LR2
4SF2	2LS2
4SF2	2LS2-M
4SF2	2LS3
4SF2	2LS3-M
4SF2	4LS2
4SF2	2RV2-T
4SF2	4RV2-T
2TF3	2TF2
4TF2	2TF2
4TF2	4TF2

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Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

FI Combinations		Voice Grade Service (VG)												
IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13
4AH6-D(1)	4EA2-M			X				X	X					
4AH6-C(1)	9EA2			X				X	X					
4AH6-C(1)	6EA2-E			X				X	X					
4AH6-C(1)	6EA2-M			X				X	X	X				
4AH6-C(1)	4EA2-E			X				X	X					
4AH6-C(1)	4EA2-M			X				X	X					
4AH5-B(1)	9EA2			X				X	X					
4AH5-B(1)	6EA2-E			X				X	X					
4AH5-B(1)	6EA2-M			X				X	X	X				
4AH5-B(1)	4EA2-E			X				X	X					
4AH5-B(1)	4EA2-M			X				X	X					
4AH6-D(1)	8EB2-E			X				X	X					
4AH6-D(1)	8EB2-M			X				X	X	X				
4AH6-D(1)	6EB2-E			X				X	X					
4AH6-D(1)	6EB2-M			X				X	X					
4AH6-C(1)	8EB2-E			X				X	X					
4AH6-C(1)	8EB2-M			X				X	X	X				
4AH6-C(1)	6EB2-E			X				X	X					
4AH6-C(1)	6EB2-M			X				X	X					
4AH5-B(1)	8EB2-E			X				X	X					
4AH5-B(1)	8EB2-M			X				X	X	X				
4AH5-B(1)	6EB2-E			X				X	X					
4AH5-B(1)	6EB2-M			X				X	X					
4AH6-D(1)	2GO2	X												
4AH6-C(1)	2GO2	X												
4AH5-B(1)	2GO2	X												
4AH6-D(1)	6GS2(2)			X										
4AH6-D(1)	4GS2							X						
4AH6-D(1)	2GS3			X				X						
4AH6-D(1)	2GS2	X		X				X						

(AT)

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

(T) (2) This facility interface combination is applicable with Centrex C.O. Service only.

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

FI Combinations		Voice Grade Service (VG)											
IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13
4AH6-D(1)	4EA2-M			X				X	X					
4AH6-C(1)	9EA2			X				X	X					
4AH6-C(1)	6EA2-E			X				X	X					
4AH6-C(1)	6EA2-M			X				X	X	X				
4AH6-C(1)	4EA2-E			X				X	X					
4AH6-C(1)	4EA2-M			X				X	X					
4AH5-B(1)	9EA2			X				X	X					
4AH5-B(1)	6EA2-E			X				X	X					
4AH5-B(1)	6EA2-M			X				X	X	X				
4AH5-B(1)	4EA2-E			X				X	X					
4AH5-B(1)	4EA2-M			X				X	X					
4AH6-D(1)	8EB2-E			X				X	X					
4AH6-D(1)	8EB2-M			X				X	X	X				
4AH6-D(1)	6EB2-E			X				X	X					
4AH6-D(1)	6EB2-M			X				X	X					
4AH6-C(1)	8EB2-E			X				X	X					
4AH6-C(1)	8EB2-M			X				X	X	X				
4AH6-C(1)	6EB2-E			X				X	X					
4AH6-C(1)	6EB2-M			X				X	X					
4AH5-B(1)	8EB2-E			X				X	X					
4AH5-B(1)	8EB2-M			X				X	X	X				
4AH5-B(1)	6EB2-E			X				X	X					
4AH5-B(1)	6EB2-M			X				X	X					
4AH6-D(1)	2GO2	X												
4AH6-C(1)	2GO2	X												
4AH5-B(1)	2GO2	X												
4AH6-D(1)	4GS2			X				X						
4AH6-D(1)	2GS3			X				X						
4AH6-D(1)	2GS2	X		X				X						

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

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

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

(AT)

(AT)

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

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

WAL Serving Office Supervisory Signaling	Available WAL Channel Interfaces
LO	2LS2, 2LS3, 4LS2, 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-44, 4DS6-27
GO	2GS2, 2GS3, 2GS3-C, 4GS2, 4GS2-C, 4DS9-15, 4DS9-31, 4DS0-63, 4DS6-44, 4DS6-27

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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 58
Replacing 2nd Revised Sheet 58

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

(AT)

WAL Serving Office Supervisory Signaling	Available WAL Channel Interfaces
LO	2LS2, 2LS3, 4LS2, 4DS9-15, 4DS9-31, 4DSO-63, 4DS6-44, 4DS6-27
GO	2GS2, 2GS3, 2GS3-C, 4GS2, 4GS2-C, 4DS9-15, 4DS9-31, 4DSO-63, 4DS6-44, 4DS6-27

(AT)

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Southwestern Bell Telephone Company
St. Louis, Missouri

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Access Services Tariff
Section 7
2nd Revised Sheet 58
Replacing 1st Revised Sheet 58
Through
1st Revised Sheet 61
~~Original Sheet 62~~

(CP)ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

7.3 Channel Interface and Network Channel Codes-(Continued)

7.3.5 Compatible Channel Interfaces-(Continued)

C. Voice Grade-(Continued)

(RT)

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

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

	FI Combinations		Voice Grade Service												
	IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13
(AT)	4AH6-C(1)	6GS2(2)			X				X						
	4AH6-C(1)	4GS2			X				X						
	4AH6-C(1)	2GS3			X				X						
	4AH6-C(1)	2GS2	X		X				X						
(AT)	4AH5-B(1)	6GS2(2)			X				X						
	4AH5-B(1)	4GS2			X				X						
	4AH5-B(1)	2GS3			X				X						
	4AH5-B(1)	2GS2	X		X				X						
	4AH6-D(1)	2LA2		X					X						
	4AH6-C(1)	2LA2		X					X						
	4AH5-B(1)	2LA2		X					X						
	4AH6-D(1)	2LB2		X					X						
	4AH6-C(1)	2LB2		X					X						
	4AH5-B(1)	2LB2		X					X						
	4AH6-D(1)	2LC2		X					X						
	4AH6-C(1)	2LC2		X					X						
	4AH5-B(1)	2LC2		X					X						
	4AH6-D(1)	2LO3		X				X							
	4AH6-D(1)	2LO2	X												
	4AH6-C(1)	2LO3		X				X							
	4AH6-C(1)	2LO2	X												
	4AH5-B(1)	2LO3		X											
	4AH5-B(1)	2LO2	X												
	4AH6-D(1)	4LR2		X											
	4AH6-D(1)	2LR2		X											
	4AH6-C(1)	4LR2		X											
	4AH6-C(1)	2LR2		X											
	4AH5-B(1)	4LR2		X											
	4AH5-B(1)	2LR2		X											

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

(T) (2) This facility interface combination is applicable with Centrex C.O. Service only.

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ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

FI Combinations		Voice Grade Service (VG)												
IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13
4AH6-C(1)	4GS2			X				X						
4AH6-C(1)	2GS3			X				X						
4AH6-C(1)	2GS2	X		X				X						
4AH5-B(1)	4GS2			X				X						
4AH5-B(1)	2GS3			X				X						
4AH5-B(1)	2GS2	X		X				X						
4AH6-D(1)	2LA2		X					X						
4AH6-C(1)	2LA2		X					X						
4AH5-B(1)	2LA2		X					X						
4AH6-D(1)	2LB2		X					X						
4AH6-C(1)	2LB2		X					X						
4AH5-B(1)	2LB2		X					X						
4AH6-D(1)	2LC2		X					X						
4AH6-C(1)	2LC2		X					X						
4AH5-B(1)	2LC2		X					X						
4AH6-D(1)	2LO3		X				X							
4AH6-D(1)	2LO2	X												
4AH6-C(1)	2LO3		X				X							
4AH6-C(1)	2LO2	X												
4AH5-B(1)	2LO3		X				X							
4AH5-B(1)	2LO2	X												
4AH6-D(1)	4LR2		X											
4AH6-D(1)	2LR2		X											
4AH6-C(1)	4LR2		X											
4AH6-C(1)	2LR2		X											
4AH5-B(1)	4LR2		X											
4AH5-B(1)	2LR2		X											

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

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

Access Services Tariff
Section 7
1st Revised Sheet 59
Replacing Original Sheet 59

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

	FI Combinations		Voice Grade Service (VG)											
	IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13
	4AH6-D(1)	4LS2		X	X				X						
	4AH6-D(1)	2LS2	X	X	X				X	X					
	4AH6-D(1)	2LS3		X	X				X						
	4AH6-C(1)	4LS2		X	X				X						
	4AH6-C(1)	2LS2	X	X	X				X	X					
	4AH6-C(1)	2LS3		X	X				X						
(RT)															
	4AH5-B(1)	4LS2		X	X				X						
	4AH5-B(1)	2LS2	X	X	X				X	X					
	4AH5-B(1)	2LS3		X	X				X						
	4AH6-D(1)	4NO2	X	X			X	X	X		X				
	4AH6-D(1)	2NO2	X	X			X		X						
	4AH6-C(1)	4NO2	X	X			X	X	X		X				
	4AH6-C(1)	2NO2	X	X			X		X						
	4AH5-B(1)	4NO2	X	X			X	X	X		X				
	4AH5-B(1)	2NO2	X	X			X		X						
	4AH6-D(1)	4RV2-T			X				X						
(RT)	4AH6-D(1)	2RV2-T			X										
	4AH6-C(1)	4RV2-T			X				X						
(RT)	4AH6-C(1)	2RV2-T			X										
	4AH5-B(1)	4RV2-T			X				X						
(RT)	4AH5-B(1)	2RV2-T			X										

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

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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 59

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

FI Combinations		Voice Grade Service (VG)												
IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13
4AH6-D(1)	4LS2		X	X				X						
4AH6-D(1)	2LS2	X	X	X				X	X					
4AH6-D(1)	2LS3		X	X				X						
4AH6-C(1)	4LS2		X	X				X						
4AH6-C(1)	2LS2	X	X	X				X	X					
4AH6-C(1)	2LS3		X	X				X						
4AH5-B(1)	6LS2		X	X				X						
4AH5-B(1)	4LS2		X	X				X						
4AH5-B(1)	2LS2	X	X	X				X	X					
4AH5-B(1)	2LS3		X	X				X						
4AH6-D(1)	4NO2	X	X			X	X	X		X				
4AH6-D(1)	2NC2	X	X			X		X						
4AH6-C(1)	4NO2	X	X			X	X	X		X				
4AH6-C(1)	2NO2	X	X			X		X						
4AH5-B(1)	4NO2	X	X			X	X	X		X				
4AH5-B(1)	2NO2	X	X			X		X						
4AH6-D(1)	4RV2-T			X				X						
4AH6-D(1)	2RV2-T			X				X						
4AH6-C(1)	4RV2-T			X				X						
4AH6-C(1)	2RV2-T			X				X						
4AH5-B(1)	4RV2-T			X				X						
4AH5-B(1)	2RV2-T			X				X						

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

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Southwestern Bell Telephone Company
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Access Services Tariff
Section 7
1st Revised Sheet 60
Replacing Original Sheet 60

ACCESS SERVICES

7. SPECIAL ACCESS SERVICE-(Continued)

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

7.2.1 Analog Services-(Continued)

B. Voice Grade Services-(Continued)

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

	FI Combinations		Voice Grade Service (VG)											
	IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13
(RT)															
(RT)															
(AT)	4DB2	2DA2					X								
	4DB2	4DA2					X	X				X			
(AT)	2DB2(2)	2DA2					X	X							
	4DB2	6DA2						X				X			
(AT)	2DB2	2NO2					X								
	4DB2	4NO2						X							
(AT)	4DB2	2NO2					X								
	4DD3	4DE2					X								
(CT)	4DD3	2DE2					X								
	4DS9(1)	4AC2	X												
	4DS9(1)	2AC2	X												
	4DS9(1)	6DA2						X				X			
(AT)	4DS9(1)	4DA2					X	X							
(AT)	4DS9(1)	2DA2					X								
	4DS9(1)	4DE2					X								
(AT)	4DS9(1)	2DE2					X								
	4DS9(1)	4DX2									X				

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

(AT) (2) For VG-6, available only when new legs are added to existing one-way multi-point circuits.

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

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

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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)

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

FI Combinations		Voice Grade Service (VG)												
IC	End User	1	2	3	4	5	6	7	8	9	10	11	12	13
6DA2	6DA2										X			
6DA2	4DA2										X			
4DA2	6DA2										X			
4DA2	4DA2										X			
4DB2	6DA2						X				X			
4DB2	4NO2						X							
4DD3	4DE2					X								
2DD3	2DE2					X								
4DS9(1)	4AC2	X												
4DS9(1)	2AC2	X												
4DS9(1)	6DA2						X				X			
4DS9(1)	4DE2					X								
4DS9(1)	4DX2									X				

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

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