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

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SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

Issued: January 23, 2003

Effective: February 22, 2003

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

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

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES

23.1.1 General

SBC Multi-service Optical Network Ring (MON Ring) Service provides high volume optical transport utilizing multiplexing technology in a ring configuration. Multiple data signals are transmitted over fiber-optic cable using different wavelengths of light. Each of these wavelengths represents a transmission channel in the MON system and is protocol-independent of every other channel in the system.

SBC MON Ring Service is only available within the Local Access and Transport Areas (LATAs) served by and within the service territories of the Company.

SBC MON Ring Service allows customers to combine their multiple data signals so that they can be amplified and transported over one network. MON Ring Service provides dedicated capacity over a single pair of fiber in two directions that increases capacity without limiting customer-required data interfaces.

(MT)

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SBC MON Ring Service allows customers to combine their multiple data signals so that they can be amplified and transported over one network. MON Ring Service provides dedicated capacity over a single pair of fiber in two directions that increases capacity without limiting customer-required data interfaces.

SBC MON Ring Service offers the following port interfaces:

IBM Protocols: (1)

ESCON™ (200 Mbps) – Enterprise Systems Connection. An IBM duplex optical connection used for computer-to-computer data exchange. ESCON™ is limited to a maximum distance of 43 km and actual data throughput is distance sensitive.

ETR™ (8 Mbps – Manchester Encoded) – External Timing References. This protocol is used for IBM GDPS™ architecture for multiple-location host processors. ETR™ is limited to a maximum distance of 40 km.

FICON™ (1.0625 Gbps and 2.125 Gbps) – A higher-speed evolution of ESCON™, enabling 1 Gbps connectivity among mainframes, storage devices and peripherals. FICON™ is limited to a maximum distance of 100 km and actual data throughput is distance sensitive.

(MT) (MT) ISC™ (1.0625 Gbps) – Inter-System Coupling. This protocol is used with IBM GDPS™ architecture for multiple-location host processors. ISC™ is limited to a maximum distance of 40 km.

(1) ESCON™, ETR™, FICON™, ISC™ and GDPS™ are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

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

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES

23.1.1 General

SBC Multi-service Optical Network Ring (MON Ring) Service provides high volume optical transport utilizing multiplexing technology in a ring configuration. Multiple data signals are transmitted over fiber-optic cable using different wavelengths of light. Each of these wavelengths represents a transmission channel in the MON system and is protocol-independent of every other channel in the system.

SBC MON Ring Service is only available within the Local Access and Transport Areas (LATAs) served by and within the service territories of Southwestern Bell.

SBC MON Ring Service allows customers to combine their multiple data signals so that they can be amplified and transported over one network. MON Ring Service provides dedicated capacity over a single pair of fiber in two directions that increases capacity without limiting customer-required data interfaces.

SBC MON Ring Service offers the following port interfaces:

IBM Protocols: (1)

ESCON™ (200 Mbps) – Enterprise Systems Connection. An IBM duplex optical connection used for computer-to-computer data exchange. ESCON™ is limited to a maximum distance of 43 km and actual data throughput is distance sensitive.

ETR™ (8 Mbps – Manchester Encoded) – External Timing References. This protocol is used for IBM GDPS™ architecture for multiple-location host processors. ETR™ is limited to a maximum distance of 40 km.

FICON™ (1.0625 Gbps and 2.125 Gbps) – A higher-speed evolution of ESCON™, enabling 1 Gbps connectivity among mainframes, storage devices and peripherals. FICON™ is limited to a maximum distance of 100 km and actual data throughput is distance sensitive.

(1) ESCON™, ETR™, FICON™, ISC™ and GDPS™ are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

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SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.1 General (cont'd)

Sub-Rate Systems

(MT) Sub-Rate System - provide a multiplexing system operating at 1.25 Gbps with 4 ports. Applicable to ESCON™, Fast Ethernet, D1 Video, DVB-ASI. and OC-3/OC-3c port interfaces. Sub-rate multiplexing is offered at the serving wire center only for OC-3/OC-3c. (1)

ESCON™ Sub-Rate System - provides a multiplexing system which allows customers to put up to 8 ESCON™ Channels (no other protocol) on one port card. (1)

GigE/FC/FICON™ Sub-Rate System - provides a multiplexing system which allows customers to put 2 Gigabit Ethernet (GigE) Channels or 2 Fibre Channels or 2 FICON™ Channels on one port card. (1)

OC-3/OC-12 Sub-Rate System – provides a multiplexing system which allows customers to put up to either 4 OC-3/OC-3c signals or OC-12/OC-12c signals or combinations thereof on one card. This sub-rate multiplexing system will have independent timing which allows (MT) multiple OC-3/OC-3c services or OC-12/OC-12c services on one port card. (1)

(AT) SONET OC-48 Sub-Rate System – provides a multiplexing system which allows customers
(AT) to put up to four (4) OC-48/OC-48c signals on one card.(2)

(MT) (1) Available where facilities and equipment permit.
(2) Available where facilities and equipment permit beginning November 30, 2005.

Issued: October 31, 2005 Effective: November 30, 2005

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

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES

23.1.1 General

(MT) SBC MON Ring Service offers the following port interfaces:

IBM Protocols: (1)

ESCON™ (200 Mbps) – Enterprise Systems Connection. An IBM duplex optical connection used for computer-to-computer data exchange. ESCON™ is limited to a maximum distance of 43 km and actual data throughput is distance sensitive. ESCON™ is offered as a riding circuit where facilities and equipment permit.

ETR/CLO™ (8 Mbps – Manchester Encoded) – External Timing References/Control Link Oscillator. This protocol is used for IBM GDPS™ architecture for multiple-location host processors. ETR/CLO™ is limited to a maximum distance of 40 km.

FICON™ (1.0625 Gbps and 2.125 Gbps) – A higher-speed evolution of ESCON™, enabling 1 Gbps connectivity among mainframes, storage devices and peripherals. FICON™ is limited to a maximum distance of 100 km and actual data throughput is distance sensitive. 1.0625 Gbps service is offered as a riding circuit where facilities and equipment permit. 1.0625 Gbps service is capable of being multiplexed on the GigE/FC/FICON™ Sub-Rate System.

ISC-1™ (1.0625 Gbps) – Inter-System Coupling. This protocol is used with IBM GDPS™ architecture for multiple-location host processors. ISC™ is limited to a maximum distance of 40 km.

ISC-3™ (2.125 Gbps) – Inter-System Channel. ISC-3™ links have a peak data rate of 2.125 Gbps and can interconnect IBM™ eServer z900 systems for distances up to 100km.

(MT) (1) ESCON™, ETR/CLO™, FICON™, ISC-1™, ISC-3™, and GDPS™ are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.1 General (cont'd)

Other Protocols:

(AT)
(AT)(MT)
(MT)
Fibre Channel (1.0625 Gbps and 2.125 Gbps) – an industry standard protocol used to interconnect Storage Area Networks (SANs). Fibre Channel is limited to a maximum distance of 100 km and actual data throughput is distance sensitive. 1.0625 Gbps service is offered as a riding circuit where facilities and equipment permit. 1.0625 Gbps service is capable of being multiplexed on the GigE/FC/FICON™ Sub-Rate System.

(AT)
Fast Ethernet – a version of Ethernet that allows data transmission rates of 100 Mbps. Offered as a riding circuit where facilities and equipment permit.

(AT)
Gigabit Ethernet – a version of Ethernet that allows data transmission rates of 1 Gbps. Gigabit Ethernet (GigE) is offered as a riding circuit where facilities and equipment permit.

10 Gigabit Ethernet (WAN-PHY) – a version of Ethernet that allows data transmission rates of 9.953 Gbps with a WAN-PHY only interface.

10 Gigabit Ethernet (LAN-PHY) – a version of Ethernet that allows data transmission rates of 10.3125 Gbps with a LAN-PHY only interface.

(AT)
D1 Video – uncompressed digital video signal operating at 270 Mbps. Offered as a riding circuit where facilities and equipment permit.

(AT)
DVB-ASI Video – Digital Video Broadcasting – provides a 1310 nm optical interface at 270 Mbps. Offered as a riding circuit where facilities and equipment permit.

(AT)
(AT)
SONET OC-3/OC-3c - provides a fiber-based 155.52 Mbps synchronous optical full duplex data transmission capability. Offered as a riding circuit where facilities and equipment permit. (1)

(MT)

(1) These port interfaces are available at both the Customer Premises Node and the Central Office Node. All other port interfaces are available only at the Customer Premises Node.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.1 General (cont'd)

(MT)

Other Protocols:

Fibre Channel (1.0625 Gbps and 2.125 Gbps) – an industry standard protocol used to interconnect Storage Area Networks (SANs). Fibre Channel is limited to a maximum distance of 100 km and actual data throughput is distance sensitive.

Fast Ethernet – a version of Ethernet that allows data transmission rates of 100 Mbps.

Gigabit Ethernet – a version of Ethernet that allows data transmission rates of 1 Gbps.

10 Gigabit Ethernet (WAN-PHY) – a version of Ethernet that allows data transmission rates of 9.953 Gbps with a WAN-PHY only interface.

(AT) 10 Gigabit Ethernet (LAN-PHY) – a version of Ethernet that allows data transmission
(AT) rates of 10.3125 Gbps with a LAN-PHY only interface.

D1 Video – uncompressed digital video signal operating at 270 Mbps.

SONET OC-3/OC-3c - provides a fiber-based 155.52 Mbps synchronous optical full
(CT) duplex data transmission capability. (1)

SONET OC-12/OC-12c - provides a fiber-based 622.08 Mbps synchronous optical full
(CT) duplex data transmission capability. (1)

SONET OC-48/OC-48c - provides a fiber-based 2488.32 Mbps synchronous optical full
(CT) duplex data transmission capability. (1)

SONET OC-192/OC-192c - provides a fiber-based 9953.28 Mbps synchronous optical
(CT) full duplex data transmission capability. (1)

(RT)

(FC) (1) These port interfaces are available at both the Customer Premises Node and the Central Office Node. All other port interfaces are available only at the Customer Premises Node.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.1 General (cont'd)

IBM Protocols: (1) (cont'd)

ISC™ (1.0625 Gbps) – Inter-System Coupling. This protocol is used with IBM GDPS™ architecture for multiple-location host processors. ISC™ is limited to a maximum distance of 40 km.

Other Protocols:

Fibre Channel (1.0625 Gbps and 2.125 Gbps) – an industry standard protocol used to interconnect Storage Area Networks (SANs). Fibre Channel is limited to a maximum distance of 100 km and actual data throughput is distance sensitive.

Fast Ethernet – a version of Ethernet that allows data transmission rates of 100 Mbps.

Gigabit Ethernet – a version of Ethernet that allows data transmission rates of 1 Gbps.

10 Gigabit Ethernet (WAN-PHY) – a version of Ethernet that allows data transmission rates of 9.953 Gbps with a WAN-PHY only interface.

D1 Video – uncompressed digital video signal operating at 270 Mbps.

SONET OC-3/OC-3c - provides a fiber-based 155.52 Mbps synchronous optical full duplex data transmission capability. (2)

SONET OC-12/OC-12c - provides a fiber-based 622.08 Mbps synchronous optical full duplex data transmission capability. (2)

(MT) SONET OC-48/OC-48c - provides a fiber-based 2488.32 Mbps synchronous optical full duplex data transmission capability. (2)

(MT) SONET OC-192/OC-192c - provides a fiber-based 9953.28 Mbps synchronous optical full duplex data transmission capability. (2)

(1) ESCON™, ETR™, FICON™, ISC™ and GDPS™ are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.
(2) These port interfaces are available at both the Customer Premises Node and the Central Office Node. All other port interfaces are available only at the Customer Premises Node.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.1 General (cont'd)

IBM Protocols: (1) (cont'd)

ISC™ (1.0625 Gbps) – Inter-System Coupling. This protocol is used with IBM GDPS™ architecture for multiple-location host processors. ISC™ is limited to a maximum distance of 40 km.

Other Protocols:

Fibre Channel (1.0625 Gbps and 2.125 Gbps) – an industry standard protocol used to interconnect Storage Area Networks (SANs). Fibre Channel is limited to a maximum distance of 100 km and actual data throughput is distance sensitive.

Fast Ethernet – a version of Ethernet that allows data transmission rates of 100 Mbps.

Gigabit Ethernet – a version of Ethernet that allows data transmission rates of 1 Gbps.

10 Gigabit Ethernet (WAN-PHY) – a version of Ethernet that allows data transmission rates of 9.953 Gbps with a WAN-PHY only interface.

D1 Video – uncompressed digital video signal operating at 270 Mbps.

SONET OC-3/OC-3c - provides a fiber-based 155.52 Mbps synchronous optical full duplex data transmission capability. (2)

SONET OC-12/OC-12c - provides a fiber-based 622.08 Mbps synchronous optical full duplex data transmission capability. (2)

(1) ESCON™, ETR™, FICON™, ISC™ and GDPS™ are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.
(2) These port interfaces are available at both the Customer Premises Node and the Central Office Node. All other port interfaces are available only at the Customer Premises Node.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.1 General (cont'd)

Other Protocols (cont'd)

(MT) SONET OC-12/OC-12c - provides a fiber-based 622.08 Mbps synchronous optical full
(AT) duplex data transmission capability. Offered as a riding circuit where facilities and
(AT) equipment permit. (1)

SONET OC-48/OC-48c - provides a fiber-based 2488.32 Mbps synchronous optical full
(AT) duplex data transmission capability. Offered as a riding circuit where facilities and
(AT) equipment permit. beginning November 30, 2005. (1)

SONET OC-192/OC-192c - provides a fiber-based 9953.28 Mbps synchronous optical full
(MT) duplex data transmission capability. (1)

(MT)

(RT)

(RT)

(MT)

(CT) (1) These port interfaces are available at both the Customer Premises Node and the Central Office Node.
(CT) All other port interfaces are available only at the Customer Premises Node.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.1 General (cont'd)

Other Protocols (cont'd)

Sub-Rate System - provide a multiplexing system operating at 1.25 Gbps with 4 ports. Applicable to ESCON™, Fast Ethernet, D1 Video and OC-3/OC-3c port interfaces. Sub-rate multiplexing is offered at the serving wire center only for OC-3/OC-3c.

GigE/FC/FICON™ Sub-Rate System - provides a multiplexing system which allows customers to put 2 Gigabit Ethernet (GigE) Channels or 2 Fibre Channels or 2 FICON™ Channels on one port card.

ESCON™ Sub-Rate System - provides a multiplexing system which allows customers to put up to 8 ESCON™ Channels (no other protocol) on one port card.

(AT) OC-3/OC-12 Sub-Rate System – provides a multiplexing system which allows customers to put up to either 4 OC-3/OC-3c signals or OC-12/OC-12c signals or combinations thereof on one card. This sub-rate multiplexing system will have independent timing which allows multiple OC-3/OC-3c services or OC-12/OC-12c services on one port card.

OC-12 Riding Circuit – capable of being multiplexed on the OC-3/OC-12 Sub-Rate system.

Gigabit Ethernet Riding Service – capable of being multiplexed on the GigE/FC/FICON™ Sub-Rate System. (1)

Fibre Channel Riding Service – 1.0625 Gbps rate service capable of being multiplexed on the GigE/FC/FICON™ Sub-Rate System. (1)

FICON™ Riding Service – 1.0625 Gbps rate service capable of being multiplexed on the GigE/FC/FICON™ Sub-Rate System. (1) (AT)

(MT)

(AT) (1) These port interfaces are only available when ordered with the GigE/FC/FICON™ Sub-Rate System. Gigabit Ethernet, Fibre Channel (2.125 Gbps) and FICON™ (2.125 Gbps) can also be ordered directly on the MON Ring. (AT)

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

Digital Link Services Tariff
Section 23
2nd Revised Sheet 3
Replacing 1st Revised Sheet 3

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.1 General (cont'd)

Other Protocols (cont'd)

(MT) Sub-Rate System - provide a multiplexing system operating at 1.25 Gbps with 4 ports. Applicable to ESCON™, Fast Ethernet, D1 Video and OC-3/OC-3c port interfaces. Sub-rate multiplexing is offered at the serving wire center only for OC-3/OC-3c.

(AT) GigE/FC/FICON™ Sub-Rate System - provides a multiplexing system which allows customers to put 2 Gigabit Ethernet (GigE) Channels or 2 Fibre Channels or 2 FICON™ Channels on one port card.

(AT) ESCON™ Sub-Rate System - provides a multiplexing system which allows customers to put up to 8 ESCON™ Channels (no other protocol) on one port card.

23.1.2 Definitions

Bulk Power - Provides for customer premises node power which will be required if the customer's power source is AC.

Central Office Node - Provides for the termination of service at a serving wire center.

Channel Mileage – Provides for the transmission facilities between the serving wire centers associated with the Central Office Nodes and Customer Premises Nodes.

Channel Protection (Optional) - Provides protection for a single channel toward the network. It does not protect the channel against failure towards the customer interface. Protection reduces the maximum individual channel capacity of the system.

Customer Premises Node - Provides for the termination of service at the customer's premises and presents the various selected ports to the customer.

(RT)

Issued: January 16, 2004

Effective: February 17, 2004

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

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

Digital Link Services Tariff
Section 23
1st Revised Sheet 3
Replacing Original Sheet 3

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.1 General (cont'd)

Other Protocols: (cont'd)

SONET OC-48/OC-48c - provides a fiber-based 2488.32 Mbps synchronous optical full duplex data transmission capability. (1)

SONET OC-192/OC-192c - provides a fiber-based 9953.28 Mbps synchronous optical full duplex data transmission capability. (1)

(AT) Sub-Rate System - provide a multiplexing system operating at 1.25 Gbps with 4 ports.
(AT) Applicable to ESCON™, Fast Ethernet, D1 Video and OC-3/OC-3c port interfaces. Sub-rate multiplexing is offered at the serving wire center only for OC-3/OC-3c.

23.1.2 Definitions

Bulk Power - Provides for customer premises node power which will be required if the customer's power source is AC.

Central Office Node - Provides for the termination of service at a serving wire center.

Channel Mileage – Provides for the transmission facilities between the serving wire centers associated with the Central Office Nodes and Customer Premises Nodes.

Channel Protection (Optional) - Provides protection for a single channel toward the network. It does not protect the channel against failure towards the customer interface. Protection reduces the maximum individual channel capacity of the system.

Customer Premises Node - Provides for the termination of service at the customer's premises and presents the various selected ports to the customer.

(1) These port interfaces are available at both the Customer Premises Node and the Central Office Node. All other port interfaces are available only at the Customer Premises Node.

Issued: April 4, 2003

Effective: May 4, 2003

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

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

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.1 General (cont'd)

Other Protocols: (cont'd)

SONET OC-48/OC-48c - provides a fiber-based 2488.32 Mbps synchronous optical full duplex data transmission capability. (1)

SONET OC-192/OC-192c - provides a fiber-based 9953.28 Mbps synchronous optical full duplex data transmission capability. (1)

Sub-Rate System - provide a multiplexing system operating at 1.25 Gbps with 4 ports. Applicable to ESCON™, Fast Ethernet, D1 Video and OC-3/OC-3c port interfaces.

23.1.2 Definitions

Bulk Power - Provides for customer premises node power which will be required if the customer's power source is AC.

Central Office Node - Provides for the termination of service at a serving wire center.

Channel Mileage – Provides for the transmission facilities between the serving wire centers associated with the Central Office Nodes and Customer Premises Nodes.

Channel Protection (Optional) - Provides protection for a single channel toward the network. It does not protect the channel against failure towards the customer interface. Protection reduces the maximum individual channel capacity of the system.

Customer Premises Node - Provides for the termination of service at the customer's premises and presents the various selected ports to the customer.

(1) These port interfaces are available at both the Customer Premises Node and the Central Office Node. All other port interfaces are available only at the Customer Premises Node.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

(MT) 23.1.2 Definitions

Bulk Power - Provides for customer premises node power which will be required if the customer's power source is AC.

Central Office Node - Provides for the termination of service at a serving wire center.

Channel Mileage – Provides for the transmission facilities between the serving wire centers associated with the Central Office Nodes and Customer Premises Nodes.

Channel Protection (Optional) - Provides protection for a single channel toward the network. It does not protect the channel against failure towards the customer interface. Protection reduces the maximum individual channel capacity of the system.

Customer Premises Node - Provides for the termination of service at the customer's premises and presents the various selected ports to the customer. (MT)

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.2 Definitions (cont'd)

Optical Amplifier - Provides for an optical signal boost if the distance between nodes exceeds the transmission loss parameters (link loss specific). Engineering considerations may dictate the need for more than one optical amplifier on a circuit route. These additions may be service affecting. Optical amplifiers may be located at a Customer Premise node, a Central Office Node, or at a serving wire center.

Port - Provides the channel interface at any Node location for each unprotected or protected channel.

Regenerator - Provides for re-timing, re-shaping and regeneration of the signal if degradation exceeds the dispersion or optical amplifier noise limits.

(AT) (AT) Sub-Rate System - Allows for multiple ports, also called riding circuits, on a single wavelength.

23.1.3 Regulations

The regulations, rates and charges specified herein are in addition to other regulations, rates and charges as specified in this and other SWBT tariffs.

A. The services provided for SBC MON Ring Service are primarily designed to meet the private line communications requirements of business customers, and the regulations herein reflect the reasonable support on the part of SWBT in assisting the customer in the ordering and provisioning of private line services. This assistance includes, but is not limited to, advice as to which private line service best meets the customer's requirements, taking into consideration the customer's present and future communications needs. In addition, SWBT will continue to assist and advise the customers and cooperatively respond to the requirements of the customer until such time as the private line service is discontinued. The aforementioned level of assistance is considered to be part of the private line service offering and will be provided at no additional charge.

B. The customer-provided equipment must deliver the data signals for the SBC MON Ring Service transport within the industry specification for the subscribed data services

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.2 Definitions (cont'd)

Optical Amplifier - Provides for an optical signal boost if the distance between nodes exceeds the transmission loss parameters (link loss specific). Engineering considerations may dictate the need for more than one optical amplifier on a circuit route. These additions may be service affecting. Optical amplifiers may be located at a Customer Premise node, a Central Office Node, or at a serving wire center.

Port - Provides the channel interface at any Node location for each unprotected or protected channel.

Regenerator - Provides for re-timing, re-shaping and regeneration of the signal if degradation exceeds the dispersion or optical amplifier noise limits.

23.1.3 Regulations

The regulations, rates and charges specified herein are in addition to other regulations, rates and charges as specified in this and other SWBT tariffs.

A. The services provided for SBC MON Ring Service are primarily designed to meet the private line communications requirements of business customers, and the regulations herein reflect the reasonable support on the part of SWBT in assisting the customer in the ordering and provisioning of private line services. This assistance includes, but is not limited to, advice as to which private line service best meets the customer's requirements, taking into consideration the customer's present and future communications needs. In addition, SWBT will continue to assist and advise the customers and cooperatively respond to the requirements of the customer until such time as the private line service is discontinued. The aforementioned level of assistance is considered to be part of the private line service offering and will be provided at no additional charge.

B. The customer-provided equipment must deliver the data signals for the SBC MON Ring Service transport within the industry specification for the subscribed data services.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.3 Regulations (cont'd)

C. SBC MON Ring Service provides physical layer transport only. The Company assumes no responsibility for the signals generated by the customer, for the quality of or defects in such signals, for the reception of signals by the customer, or address signaling to the extent addressing is performed by the customer. Error detection and correction of data generated by the customer is the customer's responsibility.

D. The service is considered interrupted when the customer reports a service disruption to the Company and the Company confirms that continuity of its service has been lost.

E. SBC MON Ring Service may have distance limitations based on the services carried and may require routing through wire centers (central offices) based on loss limits between nodes. Services with facility length limitations may not be available on some MON rings, or may not be available between some nodes on certain MON rings.

F. Optical Amplifiers and/or Regenerators may have to be added to a SBC MON Ring Service subsequent to the initial installation.

G. When additional services are added, such installation may cause a service interruption to existing unprotected channels, or a protection switch on protected channels.

(CT) H. Where conditions, equipment, and facilities permit, MON Ring Service will be offered in two configurations. Customers can purchase MON Ring with growth capacity up to 16 wavelengths or up to 32 wavelengths. The 32 wavelength systems may, at the discretion of the Company, be built as two 16 wavelength systems sharing common fiber and some common equipment.
(CT) Depending upon the configuration, conversion from a 16 wavelength MON Ring to a 32 wavelength MON Ring may not be available.

I. SBC MON Ring Service is provided at the option of the Company where facilities permit. If appropriate facilities are not available, Special Construction charges, as set forth in Section 1.4.4 of this Tariff, may apply.

J. Floor space for subsequent shelf growth at a Central Office Node beyond the initial installation will be provided where available, but cannot be guaranteed for subsequent shelf growth beyond the initial installation.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.3 Regulations (cont'd)

C. SBC MON Ring Service provides physical layer transport only. The Company assumes no responsibility for the signals generated by the customer, for the quality of or defects in such signals, for the reception of signals by the customer, or address signaling to the extent addressing is performed by the customer. Error detection and correction of data generated by the customer is the customer's responsibility.

D. The service is considered interrupted when the customer reports a service disruption to the Company and the Company confirms that continuity of its service has been lost.

E. SBC MON Ring Service may have distance limitations based on the services carried and may require routing through wire centers (central offices) based on loss limits between nodes. Services with facility length limitations may not be available on some MON rings, or may not be available between some nodes on certain MON rings.

F. Optical Amplifiers and/or Regenerators may have to be added to a SBC MON Ring Service subsequent to the initial installation.

G. When additional services are added, such installation may cause a service interruption to existing unprotected channels, or a protection switch on protected channels.

H. SBC MON Ring Service will be offered in two configurations. Customers can purchase MON Ring with growth capacity up to 16 wavelengths or up to 32 wavelengths. The 32 wavelength systems may, at the discretion of the Company, be built as two 16 wavelength systems sharing common fiber and some common equipment. Conversion from a 16 wavelength MON Ring to a 32 wavelength MON Ring is not available.

I. SBC MON Ring Service is provided at the option of the Company where facilities permit. If appropriate facilities are not available, Special Construction charges, as set forth in Section 1.4.4 of this Tariff, may apply.

J. Floor space for subsequent shelf growth at a Central Office Node beyond the initial installation will be provided where available, but cannot be guaranteed for subsequent shelf growth beyond the initial installation.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.3 Regulations (cont'd)

K. Prior to confirming an order for service, the Company will provide a proposed route diagram to the customer.

L. Installation of service will not begin until the customer has accepted the proposed routing by the Company.

M. Services with time-delay sensitive protocols have facility length limitations and may affect the design/availability of SBC MON Ring Service, (e.g., CPU to CPU communications have a maximum distance limitation of 60 km.). The Company will work cooperatively with the customer to determine if the desired services can operate between the customer's designated premises.

N. Channel protection may not be available for all interface types.

O. Conversion from SBC MON (point-to-point) Service to SBC MON Ring Service is not available.

P. Conversions from any other lower speed services to SBC MON Ring Service are not available.

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(AT)
(AT)

Q. Where conditions, equipment, and facilities permit, the customer must first order the MON Ring Transport System followed by the MON Ring Channels. When ordering riding services, the customer must first order the MON Ring Transport System, followed by a MON Ring Channel Sub-Rate System over which these services will be assigned. When riding services are ordered on a Sub-Rate System, they are represented by different rate elements than those services ordered directly on the MON ring.

R. Neither electrical interfaces nor optical add/drop multiplexing are available with this service.

S. OC-12/OC-12c, Gigabit Ethernet, Fibre Channel (1.0625 Gbps) and FICON™ (1.0625 Gbps) can be ordered directly on MON Ring, or as a riding service on a sub-rate system. Fibre Channel (2.125 Gbps) and FICON™ (2.125 Gbps) can only be ordered directly on MON Ring, and cannot be ordered on a sub-rate system. OC-12, Gigabit Ethernet, Fibre Channel (1.0625 Gbps) and FICON™ (1.0625 Gbps) when ordered on a sub-rate system, are represented by different rate elements than those ordered directly on the MON Ring.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.3 Regulations (cont'd)

K. Prior to confirming an order for service, the Company will provide a proposed route diagram to the customer.

L. Installation of service will not begin until the customer has accepted the proposed routing by the Company.

M. Services with time-delay sensitive protocols have facility length limitations and may affect the design/availability of SBC MON Ring Service, (e.g., CPU to CPU communications have a maximum distance limitation of 60 km.). The Company will work cooperatively with the customer to determine if the desired services can operate between the customer's designated premises.

(RT)

(FC) N. Channel protection may not be available for all interface types.

(FC) O. Conversion from SBC MON (point-to-point) Service to SBC MON Ring Service is not available.

(FC) P. Conversions from any other lower speed services to SBC MON Ring Service are not available.

(FC) Q. The customer must first order the MON Ring Transport System followed by the MON Ring Channels. When ordering ESCON™, Fast Ethernet, D1 Video and OC-3/OC-3c ports, the customer must first order a MON Ring Channel Sub-Rate System or a ESCON™ Sub-Rate System over which these services will be assigned.

(FC) R. Neither electrical interfaces nor optical add/drop multiplexing are available with this service.

(AT) S. OC-12/OC-12c, Gigabit Ethernet, Fibre Channel (1.0625 Gbps) and FICON™ (1.0625 Gbps) can be ordered directly on MON Ring, or as a riding service on a sub-rate system. Fibre Channel (2.125 Gbps) and FICON™ (2.125 Gbps) can only be ordered directly on MON Ring, and cannot be ordered on a sub-rate system. OC-12, Gigabit Ethernet, Fibre Channel (1.0625 Gbps) and FICON™ (1.0625 Gbps) when ordered on a sub-rate system, are represented by different rate elements than those ordered directly on the MON Ring.
(AT)

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.3 Regulations (cont'd)

K. Prior to confirming an order for service, the Company will provide a proposed route diagram to the customer.

L. Installation of service will not begin until the customer has accepted the proposed routing by the Company.

M. Services with time-delay sensitive protocols have facility length limitations and may affect the design/availability of SBC MON Ring Service, (E.g., CPU to CPU communications have a maximum distance limitation of 60 km.). The Company will work cooperatively with the customer to determine if the desired services can operate between the customer's designated premises.

N. OC-192/OC-192c and 10 Gbps WAN-PHY services will be available on rings that offer only those services. SBC MON Ring Service will not offer both lower rate services (up to 2.5 Gbps) and 10 Gbps or OC-192/OC-192c services on the same ring.

O. Channel protection may not be available for all interface types.

P. Conversion from SBC MON (point-to-point) Service to SBC MON Ring Service is not available.

Q. Conversions from any other lower speed services to SBC MON Ring Service are not available.

R. The customer must first order the MON Ring Transport System followed by the MON Ring Channels. When ordering ESCONTM, Fast Ethernet, D1 Video and OC-3/OC-3c ports, the (AT) customer must first order a MON Ring Channel Sub-Rate System or a ESCON™ Sub-Rate (AT) System over which these services will be assigned.

S. Neither electrical interfaces nor optical add/drop multiplexing are available with this service.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.3 Regulations (cont'd)

K. Prior to confirming an order for service, the Company will provide a proposed route diagram to the customer.

L. Installation of service will not begin until the customer has accepted the proposed routing by the Company.

M. Services with time-delay sensitive protocols have facility length limitations and may affect the design/availability of SBC MON Ring Service, (E.g., CPU to CPU communications have a maximum distance limitation of 60 km.). The Company will work cooperatively with the customer to determine if the desired services can operate between the customer's designated premises.

N. OC-192/OC-192c and 10 Gbps WAN-PHY services will be available on rings that offer only those services. SBC MON Ring Service will not offer both lower rate services (up to 2.5 Gbps) and 10 Gbps or OC-192/OC-192c services on the same ring.

O. Channel protection may not be available for all interface types.

P. Conversion from SBC MON (point-to-point) Service to SBC MON Ring Service is not available.

Q. *Conversions from any other lower speed services to SBC MON Ring Service are not available.*

R. The customer must first order the MON Ring Transport System followed by the MON Ring Channels. When ordering ESCONTM, Fast Ethernet, D1 Video and OC-3/OC-3c ports, the customer must first order a MON Ring Channel Sub-Rate System over which these services will be assigned.

S. Neither electrical interfaces nor optical add/drop multiplexing are available with this service.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.4 Allowance for Interruptions

A credit allowance will be given for interruptions of service. An interruption of service will start when an inoperative service is reported to the Company and end when the service is operative.

Any protected service interruption of greater than 2 consecutive seconds as a result of a failure on the protected portion of the circuit will result in a credit equal to one month's bill for the individual port-to-port connections involved.

If the interruption occurs on an unprotected portion of the circuit, normal terms and conditions for Credit Allowances as stated in Paragraph 1.4.8 of the Private Line Service Tariff will apply.

In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element.

23.1.5 Provision of Service

23.1.5.1 Standard Configurations

(CT)
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MON Ring Service is available in different ring configurations utilizing Central Office Nodes and Customer Premises Nodes. The total number of circuits and total usable bandwidth to the customer depends upon the mix of services ordered and the specific traffic patterns of the customer. The company will determine the appropriate wavelength assignment and the design of the MON Ring.

The minimum configuration would be two nodes either at a serving wire center or a customer premise site. If the nodes are not in a serving wire center, a central office management site for monitoring is required. An optical amplifier located at a serving wire center can be used as a monitoring site.

A combination of these configurations may be used in a network design depending on the customer's traffic pattern.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.4 Allowance for Interruptions

A credit allowance will be given for interruptions of service. An interruption of service will start when an inoperative service is reported to the Company and end when the service is operative.

Any protected service interruption of greater than 2 consecutive seconds as a result of a failure on the protected portion of the circuit will result in a credit equal to one month's bill for the individual port-to-port connections involved.

If the interruption occurs on an unprotected portion of the circuit, normal terms and conditions for Credit Allowances as stated in Paragraph 1.4.8 of the Private Line Service Tariff will apply.

In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element.

23.1.5 Provision of Service

23.1.5.1 Standard Configurations

SBC MON Ring Service is available in different ring configurations utilizing Central Office Nodes and Customer Premises Nodes, with a maximum of 8 sites and/or
(AT) 40 shelves. A shelf consists of up to 4 protected or up to 8 unprotected wavelengths
(AT) (bands). Two shelves may be placed in one physical shelf chassis.

The minimum configuration would be two nodes either at a serving wire center or a customer premise site. If the nodes are not in a serving wire center, a central office management site for monitoring is required. An optical amplifier located at a serving wire center can be used as a monitoring site.

A combination of these configurations may be used in a network design depending on the customer's traffic pattern.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.4 Allowance for Interruptions

A credit allowance will be given for interruptions of service. An interruption of service will start when an inoperative service is reported to the Company and end when the service is operative.

(AT) Any protected service interruption of greater than 2 consecutive seconds as a result of a failure on the protected portion of the circuit will result in a credit equal to one month's bill for the

(CT) individual port-to-port connections involved.

If the interruption occurs on an unprotected portion of the circuit, normal terms and conditions for Credit Allowances as stated in Paragraph 1.4.8 of the Private Line Service Tariff will apply.

In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element.

23.1.5 Provision of Service

23.1.5.1 Standard Configurations

SBC MON Ring Service is available in different ring configurations utilizing Central Office Nodes and Customer Premises Nodes, with a maximum of 8 sites and/or 40 shelves.

The minimum configuration would be two nodes either at a serving wire center or a customer premise site. If the nodes are not in a serving wire center, a central office management site for monitoring is required. An optical amplifier located at a serving wire center can be used as a monitoring site.

A combination of these configurations may be used in a network design depending on the customer's traffic pattern.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.4 Allowance for Interruptions

A credit allowance will be given for interruptions of service. An interruption of service will start when an inoperative service is reported to the Company and end when the service is operative.

Any protected service interruption as a result of a failure on the protected portion of the circuit will result in a credit equal to one month's bill for the circuits involved.

If the interruption occurs on an unprotected portion of the circuit, normal terms and conditions for Credit Allowances as stated in Paragraph 1.4.8 of the Private Line Service Tariff will apply.

In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element.

23.1.5 Provision of Service

23.1.5.1 Standard Configurations

SBC MON Ring Service is available in different ring configurations utilizing Central Office Nodes and Customer Premises Nodes, with a maximum of 8 sites and/or 40 shelves.

The minimum configuration would be two nodes either at a serving wire center or a customer premise site. If the nodes are not in a serving wire center, a central office management site for monitoring is required. An optical amplifier located at a serving wire center can be used as a monitoring site.

A combination of these configurations may be used in a network design depending on the customer's traffic pattern.

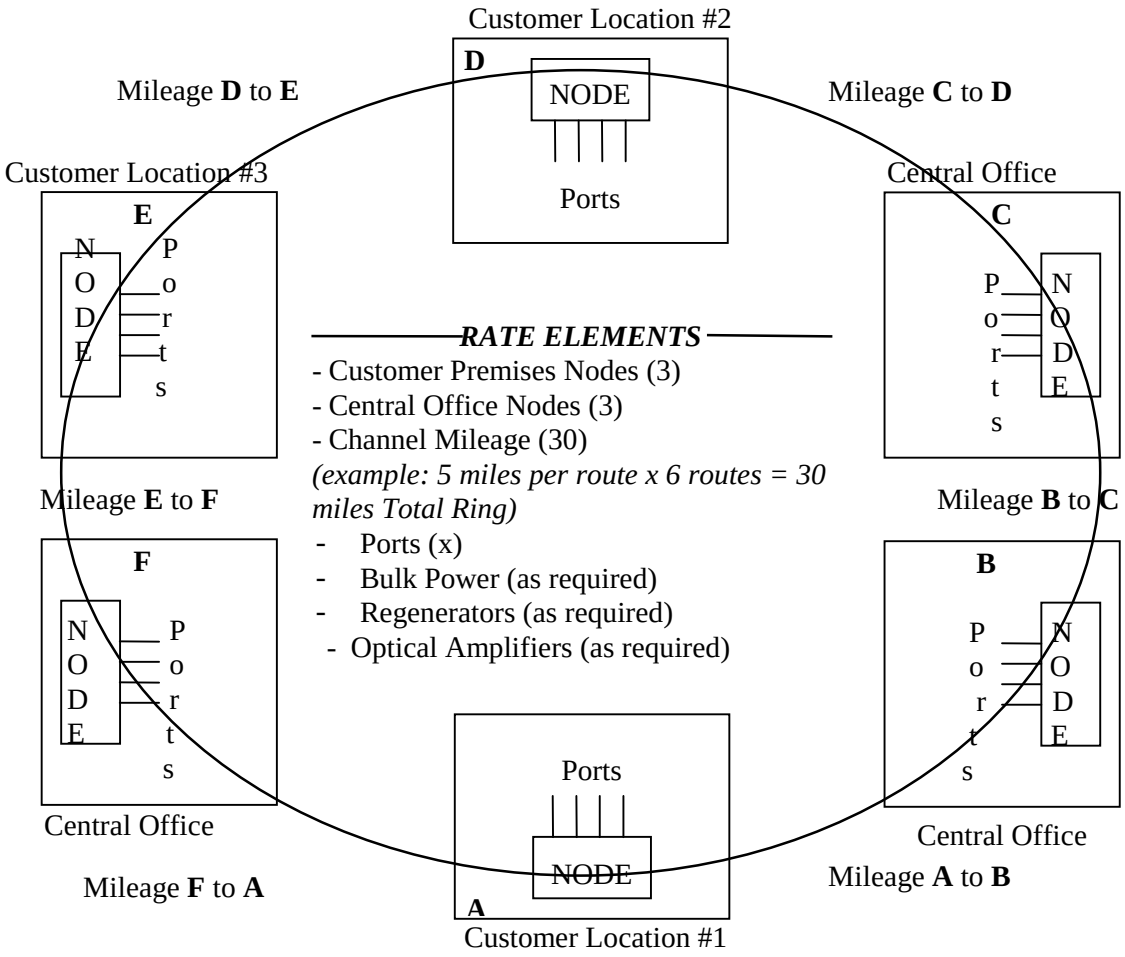
SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.5 Provision of Service (cont'd)

23.1.5.1 Standard Configurations (cont'd)

Diagram of MON Ring



SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.5 Provision of Service (cont'd)

23.1.5.2 Route Diversity

- SBC MON Ring Service is configured with diversely routed fiber whenever possible. SBC MON Ring Service will be available for protected channels 99.999% of the time and protected channels will switch within 50 milliseconds (not to exceed 2 seconds). Equipment interfaces towards the customer are not protected. Unprotected channels will be lost in the event of a fiber path failure on which the circuit is assigned. (CP) (CT) (CT)

- Routing of fiber may be diversified from the customer's property line to their serving wire center or alternate serving wire center as determined by the Company, and where facilities are available, to ensure that loop fibers follow separate paths to the serving wire center or alternate serving wire center. Interoffice facility (IOF) fiber paths may be diversely routed between serving wire centers or alternate serving wire centers. In addition, IOF fiber (if applicable) paths may be diversified to ensure that with any serving wire center Central Office Node, the fibers do not egress and ingress at the same point. In cases where the serving wire center does not have multiple entrance fiber facilities, the section of the fiber from the closest manhole (to the serving wire center) will be routed within the same duct structure.

- At the customer's request, additional protection to the Customer Premises Nodes can be provided via dual entrance facilities. This special request may cause the customer to incur special construction cost. Without this special request, diverse fiber is provided to the closest manhole to the customer location property line. The customer or building owner is responsible for providing conduit designed to meet industry standards and local fire and safety codes from the property line to the building to within the premises. The customer determines the route and method of protection inside the premises.

- In the case where dual entrance facilities are not established at the customer premises, facilities routed within the same duct structure from the property line to the building equipment location are not diverse.

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

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.5 Provision of Service (cont'd)

23.1.5.2 Route Diversity

- SBC MON Ring Service is configured with diversely routed fiber whenever possible. SBC MON Ring Service will be available 99.995% of the time and protected channels will switch within 50 milliseconds (not to exceed 2 seconds). Unprotected channels will be lost in the event of a fiber path failure on which the circuit is assigned. Equipment interfaces towards the customer are not protected.

- Routing of fiber may be diversified from the customer's property line to their serving wire center or alternate serving wire center as determined by the Company, and where facilities are available, to ensure that loop fibers follow separate paths to the serving wire center or alternate serving wire center. Interoffice facility (IOF) fiber paths may be diversely routed between serving wire centers or alternate serving wire centers. In addition, IOF fiber (if applicable) paths may be diversified to ensure that with any serving wire center Central Office Node, the fibers do not egress and ingress at the same point. In cases, where the serving wire center does not have multiple entrance fiber facilities, the section of the fiber from the closest manhole (to the serving wire center) will be routed within the same duct structure.

- At the customer's request, additional protection to the Customer Premises Nodes can be provided via dual entrance facilities. This special request may cause the customer to incur special construction cost. Without this special request, diverse fiber is provided to the closest manhole to the customer location property line. The customer or building owner is responsible for providing conduit designed to meet industry standards and local fire and safety codes from the property line to the building to within the premises. The customer determines the route and method of protection inside the premises.

- In the case where dual entrance facilities are not established at the customer premises, facilities routed within the same duct structure from the property line to the building equipment location are not diverse.

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

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.6 Technical Specifications

The customer interfaces to SBC MON Ring Service are as specified in:

Subject	Technical Reference
Ameritech LAN Interconnect Service - Token Ring Interface Codes	AM-TR-NIS-000100
Ameritech LAN Interconnect Service - CSMA/CD Interface Specifications	AM TR-NIS-000104
Ameritech OC-3, OC-12, OC-48 and OC-192 Service Interface Specifications	AM-TR-NIS-000111
Ameritech Digital Service Transmission Parameters	AM-TR-TMO-000101
Ameritech Service's Network Channel and Network Channel Interface Codes	AM-TR-TMO-000080
Ameritech Technical Interface Specifications	AM-TR-NIS-000096
(ESCON™)	AM-TR-NIS-000107
IBM Documentation (ESCON™)	IBM SA22-7202-XX IBM SA23-0394-XX
Fibre Channel (also includes FICON™ and ISC™)	ANSI X3.T9.3
Fast Ethernet	ANSI/IEEE 802.3
GigaBit Ethernet	IEEE 802.3x and z IEEE 802.3ae
D1 Video	ANSI/SMPTE 259M

The Technical References can be obtained from:

SBC at
(CT) www.sbc.com/public_affairs/regulatory_documents/tariffs /1,5932,448,00.html?pid=240

The Telcordia Technologies Research Publication(s) can be obtained from:

Telcordia Technologies
8 Corporate Place
Piscataway, New Jersey 08854

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.6 Technical Specifications

The customer interfaces to SBC MON Ring Service are as specified in:

Subject	Technical Reference
Ameritech LAN Interconnect Service - Token Ring Interface Codes	AM-TR-NIS-000100
Ameritech LAN Interconnect Service - CSMA/CD Interface Specifications	AM TR-NIS-000104
Ameritech OC-3, OC-12, OC-48 and OC-192 Service Interface Specifications	AM-TR-NIS-000111
Ameritech Digital Service Transmission Parameters	AM-TR-TMO-000101
Ameritech Service's Network Channel and Network Channel Interface Codes	AM-TR-TMO-000080
Ameritech Technical Interface Specifications	AM-TR-NIS-000096
(ESCON™)	AM-TR-NIS-000107
IBM Documentation (ESCON™)	IBM SA22-7202-XX IBM SA23-0394-XX
Fibre Channel (also includes FICON™ and ISC™)	ANSI X3.T9.3
Fast Ethernet	ANSI/IEEE 802.3
GigaBit Ethernet	IEEE 802.3x and z IEEE 802.3ae
D1 Video	ANSI/SMPTE 259M

The Technical References can be obtained from:

(CT) SBC at
(CT) www.sbc.com/public_affairs/regulatory_documents/tariffs /1,5932,448,00.html?pid=347

The Telcordia Technologies Research Publication(s) can be obtained from:

Telcordia Technologies
8 Corporate Place
Piscataway, New Jersey 08854

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.1 DESCRIPTION AND APPLICATION OF SERVICES (cont'd)

23.1.6 Technical Specifications

The customer interfaces to SBC MON Ring Service are as specified in:

Subject	Technical Reference
Ameritech LAN Interconnect Service - Token Ring Interface Codes	AM-TR-NIS-000100
Ameritech LAN Interconnect Service - CSMA/CD Interface Specifications	AM TR-NIS-000104
Ameritech OC-3, OC-12, OC-48 and OC-192 Service Interface Specifications	AM-TR-NIS-000111
Ameritech Digital Service Transmission Parameters	AM-TR-TMO-000101
Ameritech Service's Network Channel and Network Channel Interface Codes	AM-TR-TMO-000080
Ameritech Technical Interface Specifications	AM-TR-NIS-000096
(ESCON™)	AM-TR-NIS-000107
IBM Documentation (ESCON™)	IBM SA22-7202-XX
	IBM SA23-0394-XX
Fibre Channel	ANSI X3.T9.3
(also includes FICON™ and ISC™)	
Fast Ethernet	ANSI/IEEE 802.3
GigaBit Ethernet	IEEE 802.3x and z
	IEEE 802.3ae
D1 Video	ANSI/SMPTE 259M

The Technical Reference can be obtained from:

APEx Help Desk
(847) 248-5324

The Telcordia Technologies Research Publication(s) can be obtained from:

Telcordia Technologies
8 Corporate Place
Piscataway, New Jersey 08854

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.2 RATE CONFIGURATION

23.2.1 General

There are eight basic rate elements which may apply to SBC MON Ring Service:

- Nonrecurring Charges
- Customer Premises Node
- Central Office Node
- Channel Mileage
- Optical Amplifier
- Regenerators
- Bulk Power
- Ports

23.2.2 Nonrecurring Charges

23.2.2.1 General

Nonrecurring Charges are one-time charges that apply for specific work activities (i.e., installation of new service, moves and rearrangements of installed services). There are three different Nonrecurring Charges: Administrative Charge, Design and Central Office Connection Charge and Customer Connection Charge.

- The Administrative Charge applies any time a customer initiates an order for service. This charge applies once per service order.
- The Design and Central Office Connection Charge applies to each service installed, and is charged once per each riding circuit.
- The Customer Connection Service Establishment Charge applies to establish the MON Ring network, and is charged per node. Subsequent Installation charges apply to each subsequent shelf installed after the MON Ring Network is established.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.2 RATE CONFIGURATION (cont'd)

23.2.2 Nonrecurring Charges (cont'd)

23.2.2.2. Service Rearrangements

Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements or a change in the physical location of the point of termination at a customer premises, and will be charged as follows

- If changing the customer of record, the Administrative Charge will apply. For the change of customer of record to be treated as a service rearrangement, the new customer must assume liability for both current and prior charges for the service.
- For all other changes not requiring physical work at the central office or customer premises, including a change in the customer assigned circuit identification or billing account number (when initiated by the customer), the Administrative Charge will apply.
- For all other service rearrangements requiring physical work to be performed, the Administrative Charge will apply. Additionally, one Design and Central Office Connection Charge and/or one Customer Connection Charge will apply.

23.2.2.3 Cancellation of Application for Service

A. When an applicant cancels an order for service, other than those provided by Special Construction:

- Prior to the issuance of an order, no charges apply.
- After the issuance of an order, Nonrecurring Charges apply as follows:

  - Canceled before the Record Issue Date (RID), the Administrative Charge applies.
  - Canceled on or after the RID, but before the Plant Test Date (PTD), the Administrative Charge and the Design and Central Office Connection Charge apply.
  - Canceled on or after the PTD, the Administrative Charge, Design and Central Office Connection Charge and Customer Connection Charge apply.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.2 RATE CONFIGURATION (cont'd)

23.2.2 Nonrecurring Charges (cont'd)

23.2.2.3 Cancellation of Application for Service (cont'd)

B. When an applicant cancels an order for service involving Special Construction;

- Prior to the issuance of an order, no charges apply.
- After the issuance of an order, but prior to the start of construction, all Nonrecurring Charges associated with the design of the Special Construction and the Administrative Charge will apply.
- After construction has begun;

  - If there is another requirement for the specially constructed facilities, the Administrative Charge, Design and Central Office Connection Charge, and the Customer Connection Charge will apply.
  - If there is no other use for the specially constructed facilities, a charge equal to all the costs incurred in the special construction (including overheads), less net salvage, applies in addition to the Administrative Charge, Design and Central Office Connection Charge, and the Customer Connection Charge.

Note: Installation or special construction of facilities for a customer starts when the Company incurs any expense in connection therewith which would not otherwise have been incurred and the customer has advised the Company to proceed with the installation or special construction.

23.2.3 Customer Premises Node

Provides for the termination of service at the customer's premises and presents the various selected ports to the customer. Applies per customer-designated premises, per first shelf and subsequent shelves.

23.2.4 Central Office Node

Provides for the termination of service at a Company serving wire center. Applies per first shelf and subsequent shelves.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.2 RATE CONFIGURATION (cont'd)

23.2.5 Channel Mileage

Provides for the total airline distance between the serving wire center of each node involved on the MON Ring. The mileage measurement is developed utilizing the V&H coordinate method as set forth in the National Exchange Carrier Association, Inc. (NECA) Wire Center Information Tariff, FCC 4. A one-mile minimum will be billed between nodes. A two-node ring configuration has a two-mile minimum, one mile from the Central Office Node to the Customer Premises Node, and one mile from the Customer Premises Node to the Central Office Node.

23.2.6 Optical Amplifier

Provides for an optical signal boost if the distance between nodes exceeds the transmission loss parameters (link loss specific). Additional optical amplifiers may be required per location with certain circuit configurations. Optical amplifiers may be located at a Customer Premises Node, a Central Office Node, or at a serving wire center.

23.2.7 Regenerator

(AT) (AT) Provides for re-timing, re-shaping and regeneration of the signal level for up to 2.5 Gbps service (on a per shelf basis), or 10 Gbps Ethernet service (on a per circuit, per each location the circuit is regenerated basis), if degradation exceeds the dispersion and/or Optical Amplifier noise limits.

23.2.8 Bulk Power

Provides for customer premises node power which will be required if the customer's power source is AC. Applies once per each four shelves, with the first shelf and fifth subsequent shelf at each applicable Customer Premises Node.

23.2.9 Port

Provides for the channel interface at any node location for each unprotected or protected channel. Applies per port/per circuit terminating location.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.2 RATE CONFIGURATION (cont'd)

23.2.5 Channel Mileage

Provides for the total airline distance between the serving wire center of each node involved on the MON Ring. The mileage measurement is developed utilizing the V&H coordinate method as set forth in the National Exchange Carrier Association, Inc. (NECA) Wire Center Information Tariff, FCC 4. A one-mile minimum will be billed between nodes. A two-node ring configuration has a two-mile minimum, one mile from the Central Office Node to the Customer Premises Node, and one mile from the Customer Premises Node to the Central Office Node.

23.2.6 Optical Amplifier

Provides for an optical signal boost if the distance between nodes exceeds the transmission loss parameters (link loss specific). Additional optical amplifiers may be required per location with certain circuit configurations. Optical amplifiers may be located at a Customer Premises Node, a Central Office Node, or at a serving wire center.

23.2.7 Regenerator

Provides for re-timing, re-shaping and regeneration of the signal level for up to 2.5 Gbps service (on a per shelf basis), or 10 Gbps Ethernet service (on a per circuit basis), if degradation exceeds the dispersion and/or Optical Amplifier noise limits.

23.2.8 Bulk Power

Provides for customer premises node power which will be required if the customer's power source is AC. Applies once per each four shelves, with the first shelf and fifth subsequent shelf at each applicable Customer Premises Node.

23.2.9 Port

Provides for the channel interface at any node location for each unprotected or protected channel. Applies per port/per circuit terminating location.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATE AND CHARGES

23.3.1 Nonrecurring Charges

	USOC	Nonrecurring Charge
Administrative Charge		
- per service order	ORCMX	ICB
Design and Central Office Connection Charge		
- per circuit	NRBCL	ICB
Customer Connection Charge		
1) Service Establishment		
- per node	NRBBL	ICB
2) Subsequent Installation		
- per subsequent shelf	NHCNL	ICB

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates

	MON Ring Transport System	USOC	Monthly Rate
	Customer Premises Node (includes first shelf)	F2ND1	ICB
	- per subsequent shelf	F2NDS	ICB
	Central Office Node (includes first shelf)	F2NC1	ICB
	- per subsequent shelf	F2NCS	ICB
	Channel Mileage		
	- per V&H mile or fraction thereof	1L5XX	ICB
	Optical Amplifier (as required)		
	- C band (per location)	67QXX	ICB
(AT)	- L band (per location) (1)	67QSX	ICB
	Regenerator (as required)		
	- up to 2.5 Gbps (per shelf)	V8RXX	ICB
	- up to 10 Gbps (per circuit, per each location)	V8R2C	ICB
	Bulk Power (as required)		
	- per first shelf (shelves 1-4)	CBVDX	ICB
	- per subsequent shelf (shelves 5-8)	CBVDS	ICB

(1) Available where facilities and equipment permit.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates

	MON Ring Transport System	USOC	Monthly Rate
	Customer Premises Node (includes first shelf)	F2ND1	ICB
(CT)	- per subsequent shelf	F2NDS	ICB
	Central Office Node (includes first shelf)	F2NC1	ICB
	- per subsequent shelf	F2NCS	ICB
	Channel Mileage - per V&H mile or fraction thereof	1L5XX	ICB
	Optical Amplifier (as required) - C band (per location)	67QXX	ICB
	- L band (per location)	67QSX	ICB
	Regenerator (as required) - up to 2.5 Gbps (per shelf)	V8RXX	ICB
(AT)	- up to 10 Gbps (per circuit, per each location)	V8R2C	ICB
	Bulk Power (as required) - per first shelf (shelves 1-4)	CBVDX	ICB
	- per subsequent shelf (shelves 5-8)	CBVDS	ICB

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 *Recurring Rates*

MON Ring Transport System	USOC	Monthly Rate
Customer Premises Node (includes first shelf)	F2ND1	ICB
- per subsequent shelf	F2NDS	ICB
Central Office Node (includes first shelf)	F2NC1	ICB
- per subsequent shelf	F2NCS	ICB
Channel Mileage		
- per V&H mile or fraction thereof	1L5XX	ICB
Optical Amplifier (as required)		
- C band (per location)	67QXX	ICB
- L band (per location)	67QSX	ICB
Regenerator (as required)		
- up to 2.5 Gbps (per shelf)	V8RXX	ICB
- up to 10 Gbps (per circuit)	V8R2C	ICB
Bulk Power (as required)		
- per first shelf (shelves 1-4)	CBVDX	ICB
- per subsequent shelf (shelves 5-8)	CBVDS	ICB

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

	MON Ring Channels	USOC	Monthly Rate
	Ports		
	- per port/per circuit terminating location		
(CT)	ETR/CLO™		
	- unprotected channel	POYKW	ICB
	FICON™ (1.0625 Gbps)		
	- unprotected channel	POYMW	ICB
	- protected channel	POYMP	ICB
	FICON™ (2.125 Gbps)		
	- unprotected channel	POYWW	ICB
	- protected channel	POYWP	ICB
(CT)	ISC-1™		
	- unprotected channel	POYJW	ICB
(AT)	- protected channel	POYJP	ICB
	ISC-3™		
	- unprotected channel	POY9W	ICB
(AT)	- protected channel	POY9P	ICB
	Fibre Channel (1.0625 Gbps)		
	- unprotected channel	POYNW	ICB
	- protected channel	POYNP	ICB
	Fibre Channel (2.125 Gbps)		
	- unprotected channel	POYYW	ICB
	- protected channel	POYYP	ICB

(MT)

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

	MON Ring Channels	USOC	Monthly Rate
	Ports		
	- per port/per circuit terminating location		
	ETR™		
	- unprotected channel	POYKW	ICB
	FICON™ (1.0625 Gbps)		
	- unprotected channel	POYMW	ICB
	- protected channel	POYMP	ICB
	FICON™ (2.125 Gbps)		
	- unprotected channel	POYWW	ICB
	- protected channel	POYWP	ICB
	ISC™		
	- unprotected channel	POYJW	ICB
	Fibre Channel (1.0625 Gbps)		
(CT)	- unprotected channel	POYNW	ICB
(CT)	- protected channel	POYNP	ICB
	Fibre Channel (2.125 Gbps)		
	- unprotected channel	POYYW	ICB
	- protected channel	POYYP	ICB
	Gigabit Ethernet		
	- unprotected channel	POYLW	ICB
	- protected channel	POYLP	ICB
	10 Gigabit Ethernet (WAN PHY)		
	- unprotected channel	POYTW	ICB
	- protected channel	POYTP	ICB
(NR)	10 Gigabit Ethernet (LAN-PHY)		
|	- unprotected channel	POYUW	ICB
(NR)	- protected channel	POYUP	ICB

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

MON Ring Channels	USOC	Monthly Rate
Ports		
- per port/per circuit terminating location		
ETR™		
- unprotected channel	POYKW	ICB
FICON™ (1.0625 Gbps)		
- unprotected channel	POYMW	ICB
- protected channel	POYMP	ICB
FICON™ (2.125 Gbps)		
- unprotected channel	POYWW	ICB
- protected channel	POYWP	ICB
ISC™		
- unprotected channel	POYJW	ICB
Fibre Channel (1.0625 Gbps)		
- unprotected channel	POYNP	ICB
- protected channel	POYNW	ICB
Fibre Channel (2.125 Gbps)		
- unprotected channel	POYYW	ICB
- protected channel	POYYP	ICB
Gigabit Ethernet		
- unprotected channel	POYLW	ICB
- protected channel	POYLP	ICB
10 Gigabit Ethernet (WAN PHY)		
- unprotected channel	POYTW	ICB
- protected channel	POYTP	ICB

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

	MON Ring Channels	USOC	Monthly Rate
	Ports (cont'd)		
	- per port/per circuit terminating location		
(MT)	Gigabit Ethernet		
	- unprotected channel	POYLW	ICB
	- protected channel	POYLP	ICB
	10 Gigabit Ethernet (WAN PHY)		
	- unprotected channel	POYTW	ICB
	- protected channel	POYTP	ICB
	10 Gigabit Ethernet (LAN-PHY)		
	- unprotected channel	POYUW	ICB
(MT)	- protected channel	POYUP	ICB
	SONET OC-12/OC-12c		
	- unprotected channel	POYFW	ICB
	- protected channel	POYEP	ICB
(AT)	SONET OC-48/OC-48c (1)		
	- unprotected channel	POYGW	ICB
	- protected channel	POYGP	ICB
	SONET OC-192/OC-192c		
	- unprotected channel	POYOW	ICB
	- protected channel	POYOP	ICB

(MT)

(1) Available only where facilities and equipment permit.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

MON Ring Channels	USOC	Monthly Rate
Ports (cont'd)		
- per port/per circuit terminating location		
SONET OC-12/OC-12c		
- unprotected channel	POYFW	ICB
- protected channel	POYEP	ICB
SONET OC-48/OC-48c		
- unprotected channel	POYGW	ICB
- protected channel	POYGP	ICB
SONET OC-192/OC-192c		
- unprotected channel	POYOW	ICB
- protected channel	POYOP	ICB
Sub-Rate System		
- unprotected channel	POYSW	ICB
- protected channel	POYSP	ICB
ESCON™ (1)		
- unprotected channel	POYHW	ICB
- protected channel	POYHP	ICB
(CT) Fast Ethernet (2)		
- unprotected channel	POYCW	ICB
- protected channel	POYCP	ICB
(MT) D1 Video (2)		
- unprotected channel	POYVW	ICB
- protected channel	POYVP	ICB
SONET OC-3/OC-3c (2)		
- unprotected channel	POYEW	ICB
(MT) - protected channel	POYEP	ICB

(1) Available only when ordered with Sub-Rate System or ESCON™ Sub-Rate System.
(2) Available only when ordered with Sub-Rate System.

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

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

MON Ring Channels	USOC	Monthly Rate
Ports (cont'd)		
- per port/per circuit terminating location		
SONET OC-12/OC-12c		
- unprotected channel	POYFW	ICB
- protected channel	POYEP	ICB
SONET OC-48/OC-48c		
- unprotected channel	POYGW	ICB
- protected channel	POYGP	ICB
SONET OC-192/OC-192c		
- unprotected channel	POYOW	ICB
- protected channel	POYOP	ICB
Sub-Rate System		
- unprotected channel	POYSW	ICB
- protected channel	POYSP	ICB
ESCON™ (1)		
- unprotected channel	POYHW	ICB
- protected channel	POYHP	ICB
(CT) Fast Ethernet (2)		
- unprotected channel	POYCW	ICB
- protected channel	POYCP	ICB

(AT) (1) Available only when ordered with Sub-Rate System or ESCON™ Sub-Rate System.
(CT) (2) Available only when ordered with Sub-Rate System.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

MON Ring Channels	USOC	Monthly Rate
Ports (cont'd)		
- per port/per circuit terminating location		
SONET OC-12/OC-12c		
- unprotected channel	POYFW	ICB
- protected channel	POYEP	ICB
SONET OC-48/OC-48c		
- unprotected channel	POYGW	ICB
- protected channel	POYGP	ICB
SONET OC-192/OC-192c		
- unprotected channel	POYOW	ICB
- protected channel	POYOP	ICB
Sub-Rate System		
- unprotected channel	POYSW	ICB
- protected channel	POYSP	ICB
ESCON™ (1)		
- unprotected channel	POYHW	ICB
- protected channel	POYHP	ICB
Fast Ethernet (1)		
- unprotected channel	POYCW	ICB
- protected channel	POYCP	ICB

(1) Available only when ordered with Sub-Rate System.

Issued: January 23, 2003

Effective: February 22, 2003

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

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

MON Ring Channels	USOC	Monthly Rate
Ports (cont'd)		
- per port/per circuit terminating location		
GigE/FC/FICON™ Sub-Rate System		
- unprotected channel	POY1W	ICB
- protected channel	POY1P	ICB
GigE Riding Circuit (1)		
- unprotected channel	POY4W	ICB
- protected channel	POY4P	ICB
Fibre Channel (1.065 Gbps) Riding Circuit (1)		
- unprotected channel	POY6W	ICB
- protected channel	POY6P	ICB
FICON™ (1.065 Gbps) Riding Circuit (1)		
- unprotected channel	POY7W	ICB
- protected channel	POY7P	ICB

(MT)

(1) Available only when ordered with GigE/FC/FICON™ Sub-Rate System.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

	MON Ring Channels	USOC	Monthly Rate
	Ports (cont'd)		
	- per port/per circuit terminating location		
(MT)			
	GigE/FC/FICON™ Sub-Rate System		
	- unprotected channel	POY1W	ICB
	- protected channel	POY1P	ICB
(CT)	GigE Riding Circuit (1)		
	- unprotected channel	POY4W	ICB
	- protected channel	POY4P	ICB
(CT)	Fibre Channel Riding Circuit (1)		
	- unprotected channel	POY6W	ICB
	- protected channel	POY6P	ICB
(CT)	FICON™ Riding Circuit (1)		
	- unprotected channel	POY7W	ICB
(CT)	- protected channel	POY7P	ICB
	ESCON™ Sub-Rate System		
	- unprotected channel	POY2W	ICB
	- protected channel	POY2P	ICB
(NR)	OC-3/OC-12 Sub-Rate System		
	- unprotected channel	POY3W	ICB
	- protected channel	POY3P	ICB
	OC-12 Riding Circuit (2)		
	- unprotected channel	POY5W	ICB
(NR)	- protected channel	POY5P	ICB

(CT) (1) Available only when ordered with GigE/FC/FICON™ Sub-Rate System.
(AT) (2) Available only when ordered with OC-3/OC-12 Sub-Rate System.

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

Digital Link Services Tariff
Section 23
1st Revised Sheet 19
Replacing Original Sheet 19

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

	MON Ring Channels	USOC	Monthly Rate
	Ports (cont'd)		
	- per port/per circuit terminating location		
	D1 Video (1)		
	- unprotected channel	POYVW	ICB
	- protected channel	POYVP	ICB
	SONET OC-3/OC-3c (1)		
	- unprotected channel	POYEW	ICB
	- protected channel	POYEP	ICB
(NR)	GigE/FC/FICON™ Sub-Rate System		
	- unprotected channel	POY1W	ICB
	- protected channel	POY1P	ICB
	GigE Riding Circuit (2)		
	- unprotected channel	POY4W	ICB
	- protected channel	POY4P	ICB
	Fibre Channel Riding Circuit (2)		
	- unprotected channel	POY6W	ICB
	- protected channel	POY6P	ICB
	FICON™ Riding Circuit (2)		
	- unprotected channel	POY7W	ICB
	- protected channel	POY7W	ICB
	ESCON™ Sub-Rate System		
	- unprotected channel	POY2W	ICB
(NR)	- protected channel	POY2P	ICB

(1) Available only when ordered with Sub-Rate System.
(AT) (2) Available only when ordered with GigE/FC/FICON™ Sub-Rate System.

Issued: January 16, 2004

Effective: February 17, 2004

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

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

MON Ring Channels	USOC	Monthly Rate
Ports (cont'd)		
- per port/per circuit terminating location		
D1 Video (1)		
- unprotected channel	POYVW	ICB
- protected channel	POYVP	ICB
SONET OC-3/OC-3c (1)		
- unprotected channel	POYEW	ICB
- protected channel	POYEP	ICB

(1) Available only when ordered with Sub-Rate System.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

MON Ring Channels	USOC	Monthly Rate
Ports (cont'd)		
- per port/per circuit terminating location		
ESCON™ (1)		
- unprotected channel	PWY1W	ICB
- protected channel	PWY1P	ICB
Fast Ethernet (1)		
- unprotected channel	PWY2W	ICB
- protected channel	PWY2P	ICB
D1 Video (1)		
- unprotected channel	PWY3W	ICB
- protected channel	PWY3P	ICB
DVB-ASI Video (1)		
- unprotected channel	POY8W	ICB
- protected channel	POY8P	ICB
SONET OC-3/OC-3c (1)		
- unprotected channel	PWY4W	ICB
- protected channel	PWY4P	ICB
OC-48 Sub-Rate System (1)		
- unprotected channel	POYRW	ICB
- protected channel	POYRP	ICB
OC-48 Riding Circuit (1) (2)		
- unprotected channel	POYZW	ICB
- protected channel	POYZP	ICB

(1) Available only where facilities and equipment permit beginning November 30, 2005.
(2) Available only when ordered with OC-48 sub-Rate System beginning November 30, 2005.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

	MON Ring Channels	USOC	Monthly Rate
	Ports (cont'd)		
	- per port/per circuit terminating location		
(MT)	Sub-Rate System (1)		
	- unprotected channel	POYSW	ICB
	- protected channel	POYSP	ICB
	ESCON™ Riding Circuit (1)(2)(3)		
	- unprotected channel	POYHW	ICB
	- protected channel	POYHP	ICB
	Fast Ethernet Riding Circuit (1)(2)		
	- unprotected channel	POYCW	ICB
	- protected channel	POYCP	ICB
	D1 Video Riding Circuit (1)(2)		
	- unprotected channel	POYVW	ICB
(MT)	- protected channel	POYVP	ICB
(AT)	DVB-ASI Video Riding Circuit (1)(2)		
	- unprotected channel	PWY5W	ICB
(AT)	- protected channel	PWY5P	ICB
(MT)(CT) (AT) (MT) (MT)	SONET OC-3/OC-3c Riding Circuit (1)(2)(4)		
	- unprotected channel	POYEW	ICB
	- protected channel	POYEP	ICB

(1) Available where facilities and equipment permit.
(2) Available only when ordered with a Sub-Rate System.
(3) Also available with ESCON™ Sub-Rate System.
(4) Also available with SONET OC-3/OC-12 Sub-Rate System.

SBC MULTI-SERVICE OPTICAL NETWORK RING (MON RING) SERVICE

23.3 RATES AND CHARGES (cont'd)

23.3.2 Recurring Rates (cont'd)

MON Ring Channels	USOC	Monthly Rate
Ports (cont'd)		
- per port/per circuit terminating location		
(MT)(CT) ESCON™ Sub-Rate System (1)		
- unprotected channel	POY2W	ICB
- protected channel	POY2P	ICB
(CT) OC-3/OC-12 Sub-Rate System (1)		
- unprotected channel	POY3W	ICB
- protected channel	POY3P	ICB
(CT) OC-12/OC-12c Riding Circuit (1)(2)		
- unprotected channel	POY5W	ICB
(MT) - protected channel	POY5P	ICB

(1) Available where facilities and equipment permit.
(2) Available only when ordered with OC-3/OC-12 Sub-Rate System.

FIBREMAN® SERVICE (CT)

1. General Description

FibreMAN Service is a dedicated point-to-point service connecting customer's premises. FibreMAN Service is based on the Fibre Channel protocol. FibreMAN Service provides transport of the customer's data between computer devices at a data rate of up to 2 Gbps (two billion bits per second). FibreMAN extends the connectivity between customer premise sites to enable storage connectivity between servers.

FibreMAN provides interconnection functionality which supports concurrent communications among workstations, mainframes, servers, data storage systems, and other peripherals.

FibreMAN will be offered in the metropolitan marketplace as a point-to-point, dedicated service. FibreMAN will provide connectivity between end user customer premise locations, and extends connectivity between customer premise sites to enable access between storage devices.

2. Regulations

In addition to the regulations contained in this tariff, the following regulations apply to FibreMAN.

2.1 This service is only available to customers in those LATAs served by and within the service territories of the Company.

2.2 The services provided for FibreMAN are primarily designed to meet the private line communications requirements of business customers, i.e., non-interexchange carriers.

FibreMAN is a registered trademark of AT&T Knowledge Ventures (CT)

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

FIBREMAN[SM] SERVICE

1. GENERAL DESCRIPTION

(AT) FibreMAN Service is a dedicated point-to-point service connecting customer's premises. FibreMAN Service is based on the Fibre Channel protocol. FibreMAN Service provides transport of the customer's data between computer devices at a data rate of up to 2 Gbps (two billion bits per second). FibreMAN extends the connectivity between customer premise sites to enable storage connectivity between servers.

FibreMAN provides interconnection functionality which supports concurrent communications among workstations, mainframes, servers, data storage systems, and other peripherals.

FibreMAN will be offered in the metropolitan marketplace as a point-to-point, dedicated service. FibreMAN will provide connectivity between end user customer premise locations, and extends connectivity between customer premise sites to enable access between storage devices.

2. REGULATIONS

In addition to the regulations contained in this tariff, the following regulations apply to FibreMAN.

2.1. This service is only available to customers in those LATAs served by and within the service territories of the Company.

2.2 The services provided for FibreMAN are primarily designed to meet the private line communications requirements of business customers, i.e., non-interexchange carriers.

[SM] FibreMAN is a service mark of SBC Communications, Inc.

Issued: March 15, 2005

Effective: April 15, 2005

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

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

FIBREMAN[SM] SERVICE

1. GENERAL DESCRIPTION

FibreMAN Service is a dedicated point-to-point service connecting customer's premises. FibreMAN Service provides transport of the customer's data between computer devices at a data rate of up to 2 Gbps (two billion bits per second). FibreMAN extends the connectivity between customer premise sites to enable storage connectivity between servers.

FibreMAN provides interconnection functionality which supports concurrent communications among workstations, mainframes, servers, data storage systems, and other peripherals.

FibreMAN will be offered in the metropolitan marketplace as a point-to-point, dedicated service. FibreMAN will provide connectivity between end user customer premise locations, and extends connectivity between customer premise sites to enable access between storage devices.

2. REGULATIONS

In addition to the regulations contained in this tariff, the following regulations apply to FibreMAN.

2.1. This service is only available to customers in those LATAs served by and within the service territories of the Company.

2.2 The services provided for FibreMAN are primarily designed to meet the private line communications requirements of business customers, i.e., non-interexchange carriers.

[SM] FibreMAN is a service mark of SBC Communications, Inc.

2. Regulations (cont'd)

2.3. Allowance for Interruption

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this tariff or in the event that the protective controls applied by the Company result in the complete loss of service by the customer. An interruption period starts when an inoperative service is reported to the Company and the Company confirms that continuity has been lost, and ends when the service is operative.

In case of an interruption to service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100% of the applicable monthly rates.

The Company's failure to provide or maintain services under this tariff shall be excused by force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.

3. Provision of Service

3.1. The customer provided equipment (CPE) must deliver the data signals for FibreMAN transport within the industry specification for the subscribed data service.

3.2. FibreMAN provides physical layer transport only. The Company assumes no responsibility for the through transmission of signals by CPE, for the quality of or defects in such transmission, for the reception of signals by CPE, or address signaling to the extent addressing is performed by CPE. Error detection and correction of data generated by CPE is the customer's responsibility.

3.3 FibreMAN is designed to provide connectivity at the discrete bit rate of up to 2 Gigabits per second (Gbps). The service is considered interrupted when the customer reports to the Company and the Company confirms that continuity has been lost.

FIBREMAN[SM] SERVICE

2. REGULATIONS (cont'd)

2.3. Allowance for Interruption

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this tariff or in the event that the protective controls applied by the Company result in the complete loss of service by the customer. An interruption period starts when an inoperative service is reported to the Company and the Company confirms that continuity has been lost, and ends when the service is operative.

In case of an interruption to service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100% of the applicable monthly rates.

(CT) The Company's failure to provide or maintain services under this tariff shall be excused by force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts
(CT) of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.

3. PROVISION OF SERVICE

3.1. The customer provided equipment (CPE) must deliver the data signals for FibreMAN transport within the industry specification for the subscribed data service.

3.2. FibreMAN provides physical layer transport only. The Company assumes no responsibility for the through transmission of signals by CPE, for the quality of or defects in such transmission, for the reception of signals by CPE, or address signaling to the extent addressing is performed by CPE. Error detection and correction of data generated by CPE is the customer's responsibility.

3.3 FibreMAN is designed to provide connectivity at the discrete bit rate of up to 2 Gigabits per second (Gbps). The service is considered interrupted when the customer reports to the Company and the Company confirms that continuity has been lost.

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FIBREMAN[SM] SERVICE

2. REGULATIONS (cont'd)

2.3. Allowance for Interruption

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this tariff or in the event that the protective controls applied by the Company result in the complete loss of service by the customer. An interruption period starts when an inoperative service is reported to the Company and the Company confirms that continuity has been lost, and ends when the service is operative.

In case of an interruption to service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100% of the applicable monthly rates.

The Company's failure to provide or maintain services under this tariff shall be excused by labor difficulties, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.

3. PROVISION OF SERVICE

3.1. The customer provided equipment (CPE) must deliver the data signals for FibreMAN transport within the industry specification for the subscribed data service.

3.2. FibreMAN provides physical layer transport only. The Company assumes no responsibility for the through transmission of signals by CPE, for the quality of or defects in such transmission, for the reception of signals by CPE, or address signaling to the extent addressing is performed by CPE. Error detection and correction of data generated by CPE is the customer's responsibility.

3.3 FibreMAN is designed to provide connectivity at the discrete bit rate of up to 2 Gigabits per second (Gbps). The service is considered interrupted when the customer reports to the Company and the Company confirms that continuity has been lost.

3.4 The provision of FibreMAN Service is subject to the availability and operational limitations of the equipment and associated facilities. In the event that suitable facilities are not available, or modifications to existing facilities are required, Special Construction charges may be applicable as set forth in Section 1, Paragraph 1.4.4 of this tariff.

3. Provision of Service (cont'd)

3.4 The provision of FibreMAN Service is subject to the availability and operational limitations of the equipment and associated facilities. In the event that suitable facilities are not available, or modifications to existing facilities are required, Special Construction charges may be applicable as set forth in Section 1, Paragraph 1.4.4 of this tariff.

3.5 The actual throughput obtained with FibreMAN Service is distance sensitive, based on the Customer Provided Equipment (CPE) provided by the customer. FibreMAN Service will not be offered with guaranteed throughput thresholds since this is determined by the CPE provided by the customer.

3.6 Repeaters (circuit regenerators) will be located in Company wire centers as required. A monthly charge will be associated with each repeater network element, except for the first repeater in a circuit path (as the first repeater is also used for service alarming and monitoring purposes).

4. Channel Types

FibreMAN channel: an intraLATA, dedicated high capacity channel, limited to the transport of data signals between customer stations. FibreMAN provides for the transmission of data at a discrete bit rate of up to 2 Gbps in Ethernet format (Ethernet IEEE 802.3).

5. Technical Specifications Packages

Technical specifications for FibreMAN Service are described in the following technical references:

Ethernet Standards	SBC TP-76412-000.
Fibre Channel Physical and Signaling Interface	ANSI X3.230

These publications may be obtained from:

APEx Support Team (CT)
(734) 523-7348 (CT)

FIBREMAN[SM] SERVICE

3. PROVISION OF SERVICE (cont'd)

(MT) 3.4 The provision of FibreMAN Service is subject to the availability and operational limitations of the equipment and associated facilities. In the event that suitable facilities are not available, or modifications to existing facilities are required, Special Construction charges may be applicable as set forth in Section 1, Paragraph 1.4.4 of this tariff. (MT)

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4. CHANNEL TYPES

FibreMAN channel: an intraLATA, dedicated high capacity channel, limited to the transport of data signals between customer stations. FibreMAN provides for the transmission of data at a discrete bit rate of up to 2 Gbps in Ethernet format (Ethernet IEEE 802.3).

5. TECHNICAL SPECIFICATIONS PACKAGES

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These publications may be obtained from:

SBC Help Desk and Document Center
517-788-6872

(MT)

FIBREMAN[SM] SERVICE

3. PROVISION OF SERVICE (cont'd)

3.5 The actual throughput obtained with FibreMAN Service is distance sensitive, based on the Customer Provided Equipment (CPE) provided by the customer. FibreMAN Service will not be offered with guaranteed throughput thresholds since this is determined by the CPE provided by the customer.

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(AT) circuit path (as the first repeater is also used for service alarming and monitoring purposes).

4. CHANNEL TYPES

FibreMAN channel: an intraLATA, dedicated high capacity channel, limited to the transport of data signals between customer stations. FibreMAN provides for the transmission of data at a discrete bit rate of up to 2 Gbps in Ethernet format (Ethernet IEEE 802.3).

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Ethernet Standards	SBC TP-76412-000
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These publications may be obtained from:

SBC Help Desk and Document Center
517-788-6872

(MT) 6. SERVICE COMPONENTS

(CT) There are four basic rate elements, which apply to FibreMAN Service:
(MT) - Local Distribution Channel
(MT) - Interoffice Channel Mileage
(AT) - Repeater
(MT) - Diversity Options

FIBREMAN℠ SERVICE

3. PROVISION OF SERVICE (cont'd)

3.5. The actual throughput obtained with FibreMAN Service is distance sensitive, based on the Customer Provided Equipment (CPE) provided by the customer. FibreMAN Service will not be offered with guaranteed throughput thresholds since this is determined by the CPE provided by the customer.

3.6 FibreMAN Service is distance limited based on circuit configuration as determined by the Company.

4. CHANNEL TYPES

FibreMAN channel: an intraLATA, dedicated high capacity channel, limited to the transport of data signals between customer stations. FibreMAN provides for the transmission of data at a discrete bit rate of up to 2 Gbps in Ethernet format (Ethernet IEEE 802.3).

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Ethernet Standards	SBC TP-76412-000
Fibre Channel Physical and Signaling Interface	ANSI X3.230

These publications may be obtained from:

SBC Help Desk and Document Center
517-788-6872

6. Service Components

There are four basic rate elements, which apply to FibreMAN Service:

- Local Distribution Channel
- Interoffice Channel Mileage
- Repeater
- Diversity Options

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

FIBREMAN[SM] SERVICE

(MT) 6. SERVICE COMPONENTS

There are four basic rate elements, which apply to FibreMAN Service:

- Local Distribution Channel
- Interoffice Channel Mileage
- Repeater
- Diversity Options (MT)

6. Service Components (cont'd)

6.1 Local Distribution Channel (LDC)

The local distribution channel is the channel between a customer's premises and the serving wire center that normally provides service to that customer's premises.

6.2 Interoffice Channel Mileage (ICM)

Interoffice channel mileage is defined as the component of the service between two Company serving wire centers. The serving wire centers may be located in the same exchange area, as in a multi-office metropolitan exchange, or may be located in different exchange areas.

Interoffice channel mileage charges include a fixed charge, and a per mile charge, which is based on the vertical and horizontal (V-H) distance between serving wire centers, or between exchanges, measured in whole miles. Fractional miles are rounded to the next whole mile. V-H coordinates for serving wire centers can be found in the National Exchange Carrier Association, Inc. (NECA) Wire Center Information Tariff.

6.3 Repeater (RPTR)

A repeater (circuit regenerator) may be used to extend the transmission of FibreMAN Service. The Company will determine when repeaters are necessary. In addition, the first repeater in a multi-repeater circuit will be used for service alarming and monitoring purposes.

6.4 Diversity Options

There are three route diversity options available with FibreMAN. They are Local Channel Diversity, Inter-Wire Center Diversity and Alternate Wire Center Diversity. They are described in detail below under **Paragraph 7. Service Configurations**.

7. Service Configurations

All basic service configurations provide full duplex transmission. There is one basic type of FibreMAN Service configuration: Node-to-Node Service. FibreMAN services from a customer data hub location to multiple points, or multiple FibreMAN services between two customers' data hub locations are merely aggregated node-to-node services.

FIBREMAN[SM] SERVICE

(AT) (MT) 6. SERVICE COMPONENTS (cont'd)

6.1 Local Distribution Channel (LDC)

The local distribution channel is the channel between a customer's premises and the serving wire center that normally provides service to that customer's premises.

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There are three route diversity options available with FibreMAN. They are Local Channel Diversity, Inter-Wire Center Diversity and Alternate Wire Center Diversity. They are described in detail below under **Paragraph 7. Service Configurations**.

7. SERVICE CONFIGURATIONS

All basic service configurations provide full duplex transmission. There is one basic type of FibreMAN Service configuration: Node-to-Node Service. FibreMAN services from a customer data hub location to multiple points, or multiple FibreMAN services between two customers' data hub locations are merely aggregated node-to-node services.

FIBREMAN[SM] SERVICE

6. SERVICE COMPONENTS

There are three basic rate elements, which may apply to FibreMAN Service:

- Local Distribution Channel
- Interoffice Channel Mileage
- Diversity Options

6.1 Local Distribution Channel (LDC)

The local distribution channel is the channel between a customer's premises and the serving wire center that normally provides service to that customer's premises.

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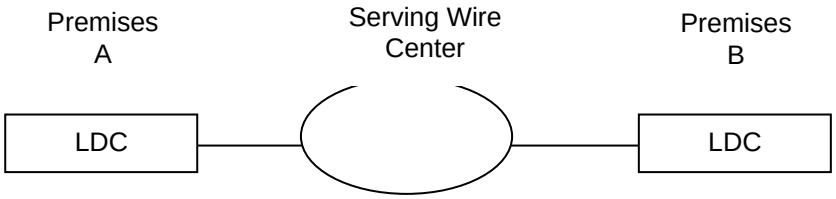
7. Service Configurations (cont'd)

7.1 Node-to-Node

A node-to-node configuration connects two customer-designated premises either inter- or intra-wire center.

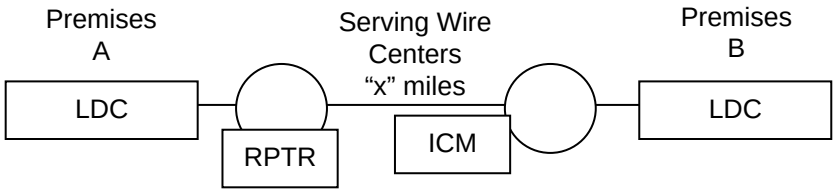
7.1.1 The following diagram depicts a node-to-node (intra-wire center) configuration connecting two customer-designated premises served from the same wire center.



LDC – Local Distribution Channel

In this case, the applicable rate element is:
- Local Distribution Channel (two applicable)

7.1.2 The following diagram depicts a node-to-node (inter-wire center) configuration connecting two customer-designated premises with Serving Wire Centers located "x" miles apart.



LDC – Local Distribution Channel
ICM – Interoffice Channel Mileage
RPTR – Repeater (as required)

In this case, applicable rate elements are:
- Local Distribution Channel (two applicable)
- Interoffice Channel Mileage Fixed (one applicable)
- Interoffice Channel Mileage Per Mile ("x" applicable)
- Repeater (as required)

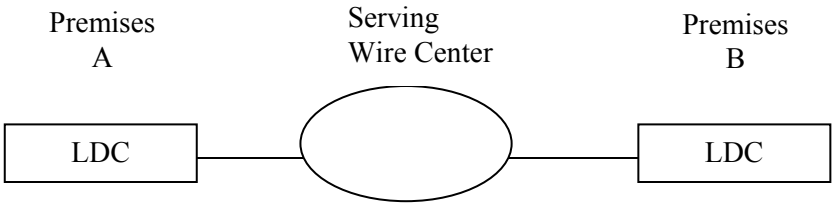
FIBREMAN[SM] SERVICE

7. SERVICE CONFIGURATIONS (cont'd)

7.1 Node-to-Node

A node-to-node configuration connects two customer-designated premises either inter- or intra-wire center.

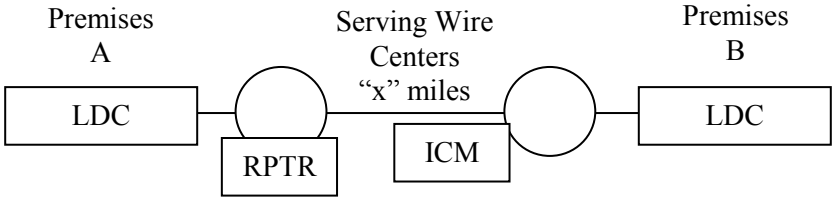
7.1.1 The following diagram depicts a node-to-node (intra-wire center) configuration connecting two customer-designated premises served from the same wire center.



LDC – Local Distribution Channel

In this case, the applicable rate element is:
- Local Distribution Channel (two applicable)

7.1.2 The following diagram depicts a node-to-node (inter-wire center) configuration connecting two customer-designated premises with Serving Wire Centers located "x" miles apart.



(AT)

LDC – Local Distribution Channel
ICM – Interoffice Channel Mileage
(AT) RPTR – Repeater (as required)

In this case, applicable rate elements are:
- Local Distribution Channel (two applicable)
- Interoffice Channel Mileage Fixed (one applicable)
- Interoffice Channel Mileage Per Mile ("x" applicable)
(AT) - Repeater (as required)

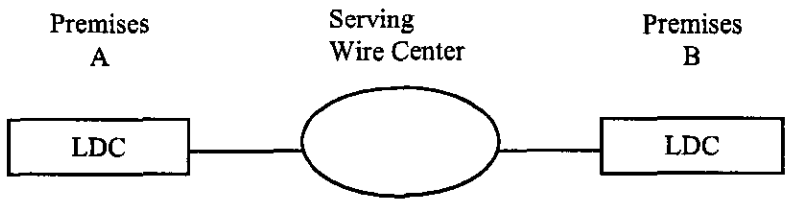
FIBREMAN[SM] SERVICE

7. SERVICE CONFIGURATIONS (cont'd)

7.1 Node-to-Node

A node-to-node configuration connects two customer-designated premises either inter- or intra-wire center.

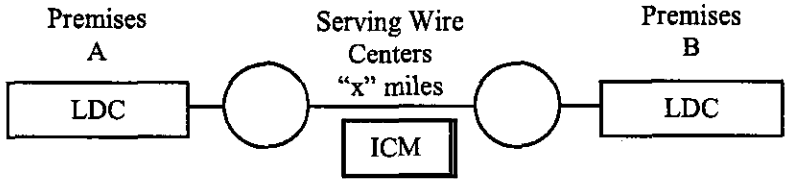
7.1.1 The following diagram depicts a node-to-node (intra-wire center) configuration connecting two customer-designated premises served from the same wire center.



LDC – Local Distribution Channel

In this case, the applicable rate element is:
- Local Distribution Channel (two applicable)

7.1.2 The following diagram depicts a node-to-node (inter-wire center) configuration connecting two customer-designated premises with Serving Wire Centers located "x" miles apart.



LDC – Local Distribution Channel
ICM – Interoffice Channel Mileage

In this case, applicable rate elements are:
- Local Distribution Channel (two applicable)
- Interoffice Channel Mileage Fixed (one applicable)
- Interoffice Channel Mileage Per Mile ("x" applicable)

7. Service Configurations (cont'd)

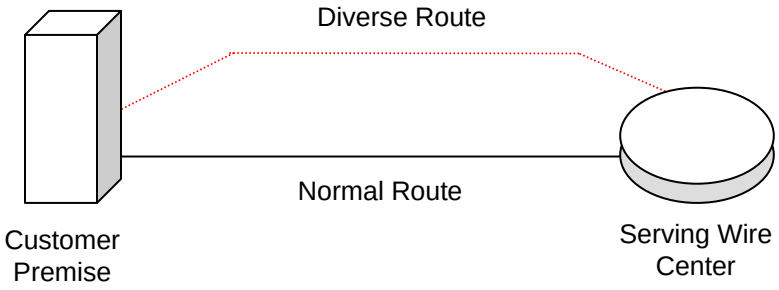
7.2 Diversity Options

Diversity options are available where facilities exist. If appropriate facilities do not exist, Special Construction charges may apply. End-to-end diversity can be achieved by coupling Alternate Wire Center Diversity with Inter-Wire Center Diversity, in those instances where each end of a circuit is served out of different serving wire centers.

FibreMAN offers the following diversity options:

7.2.1 Local Channel Diversity (LCD)

Local Channel Diversity provides for a transmission path between a designated customer premise and the standard serving wire center (SWC) that is diverse from the normal/standard transmission path. Local Channel Diversity requires two eligible services purchased by (or for the benefit of) the same customer. The Company will determine which services are eligible based on technical or operational limitations. With this arrangement, one or more local distribution channels will be provisioned over the standard route and one or more local distribution channels will be provisioned over a diverse route. Local Channel Diversity does not provide for full diversity; it only allows for diversity from the splice point closest to the customer's property line to the SWC. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premise, at the customer's expense.



FIBREMAN[SM] SERVICE

7. SERVICE CONFIGURATIONS (cont'd)

7.2 Diversity Options

Diversity options are available where facilities exist. If appropriate facilities do not exist, Special Construction charges may apply. End-to-end diversity can be achieved by coupling Alternate Wire Center Diversity with Inter-Wire Center Diversity, in those instances where each end of a circuit is served out of different serving wire centers.

FibreMAN offers the following diversity options:

7.2.1 Local Channel Diversity (LCD)

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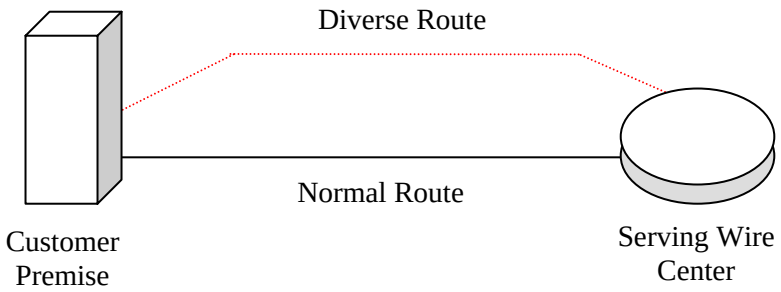
Local Channel Diversity provides for a transmission path between a designated customer premise and the standard serving wire center (SWC) that is diverse from the normal/standard transmission path. Local Channel Diversity requires two eligible services purchased by (or for the benefit of) the same customer. The Company will determine which services are eligible based on technical or operational limitations. With this arrangement, one or more local distribution channels will be provisioned over the standard route and one or more local distribution channels will be provisioned over a diverse route. Local Channel Diversity does not provide for full diversity; it only allows for diversity from the splice point closest to the customer's property line to the SWC. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premise, at the customer's expense.



FIBREMAN[SM] SERVICE

7. SERVICE CONFIGURATIONS (cont'd)

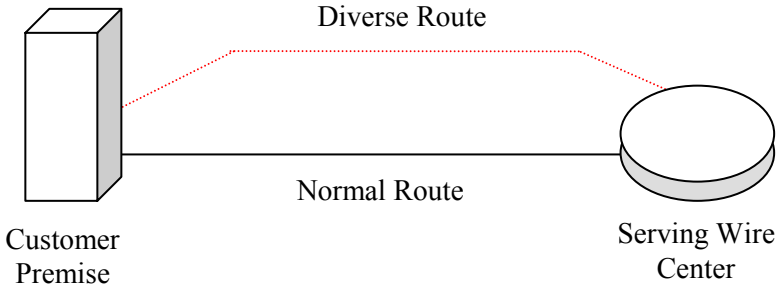
7.2 Diversity Options

(CT) (AT) Diversity options are available where facilities exist. If appropriate facilities do not exist, Special Construction charges may apply. End-to-end diversity can be achieved by coupling Alternate Wire Center Diversity with Inter-Wire Center Diversity, in those instances where each end of a (AT) circuit is served out of different serving wire centers.

FibreMAN offers the following diversity options:

7.2.1 Local Channel Diversity (LCD)

(CT) Local Channel Diversity provides for a transmission path between a designated customer premise and the standard serving wire center (SWC) that is diverse from the normal/standard transmission path. Local Channel Diversity requires two FibreMAN Services purchased by the same customer of record. With this arrangement, one or more local distribution channels will be provisioned over the standard route and one or more local distribution channels will be provisioned over a diverse route. Local Channel Diversity does not provide for full diversity; it only allows for diversity from the splice point closest to the customer's property line to the SWC. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premise, at the customer's expense.



FIBREMAN[SM] SERVICE

7. SERVICE CONFIGURATIONS (cont'd)

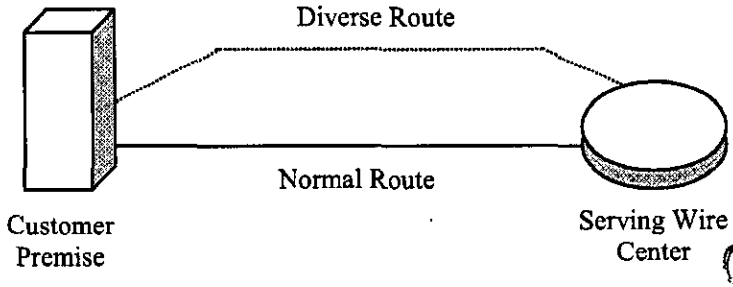
7.2 Diversity Options

Route diversity options are available where facilities exist. If appropriate facilities do not exist, Special Construction charges may apply. End-to-end diversity can be achieved by coupling Alternative Wire Center Diversity with Inter-Wire Center Diversity.

FibreMAN offers the following diversity options:

7.2.1 Local Channel Diversity (LCD)

Local Channel Diversity provides for a transmission path between a designated customer premise and the standard serving wire center (SWC) that is diverse from the normal/standard transmission path. Local Channel Diversity requires two FibreMAN Services purchased by the same customer of record. With this arrangement, one or more local distribution channels will be provisioned over the standard route and one or more local distribution channels will be provisioned over the diverse route. Local Channel Diversity does not provide for full diversity; it only allows for diversity from the splice point closest to the customer's property line to the SWC. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premise, at the customer's expense.



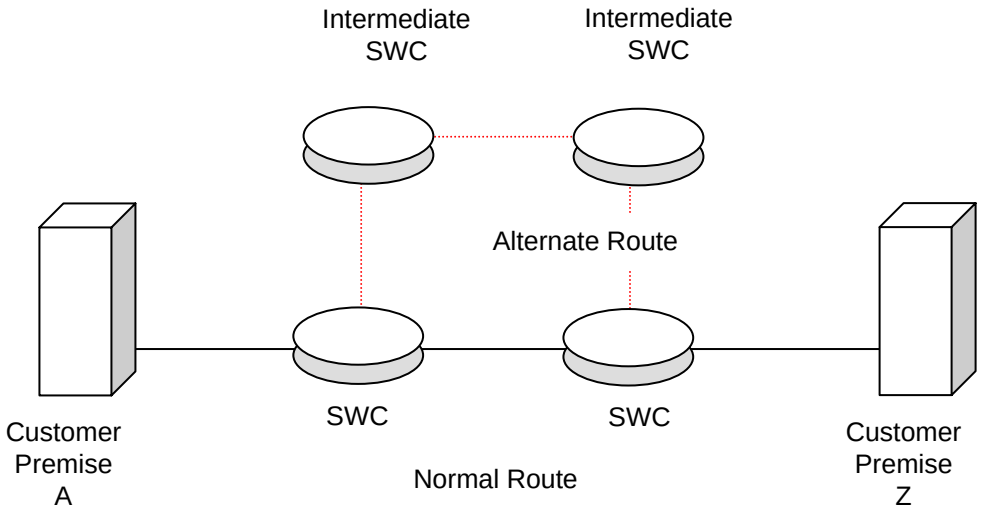
7. Service Configurations (cont'd)

7.2 Diversity Options (cont'd)

7.2.2 Inter-Wire Center Diversity (IWCD)

Inter-Wire Center Diversity arrangements presume that each end of a FibreMAN local distribution channel is served out of a different serving wire center (SWC). This arrangement provides a transmission path for FibreMAN local distribution channels between the customer's designated SWC and the serving wire center at the distant end of the circuit, over a transmission path that is separate from the standard transmission path between the two wire centers. Interoffice mileage will be calculated between the intermediate serving wire centers along the circuit path of the diversely routed FibreMAN Service. Inter-Wire Center Diversity requires two eligible services purchased by (or for the benefit of) the same customer. The Company will determine which services are eligible based on technical or operational limitations.

Inter-wire center diversity does not provide for full diversity; it only offers interoffice diversity. If a customer desires full diversity, Alternate Wire Center Diversity must be implemented along with Inter-Wire Center Diversity. Additionally, arrangements must be made for constructing dual entrance facilities at the customer's premise, at the customer's expense.



FIBREMAN[SM] SERVICE

7. SERVICE CONFIGURATIONS (cont'd)

7.2 Diversity Options (cont'd)

7.2.2 Inter-Wire Center Diversity (IWCD)

Inter-Wire Center Diversity arrangements presume that each end of a FibreMAN local distribution channel is served out of a different serving wire center (SWC). This arrangement provides a transmission path for FibreMAN local distribution channels between the customer's designated SWC and the serving wire center at the distant end of the circuit, over a transmission path that is separate from the standard transmission path between the two wire centers. Interoffice mileage will be calculated between the intermediate serving wire centers along the circuit path of the diversely routed FibreMAN Service. Inter-Wire Center Diversity requires two eligible services purchased by (or for the benefit of) the same customer. The Company will determine which services are eligible based on technical or operational limitations.

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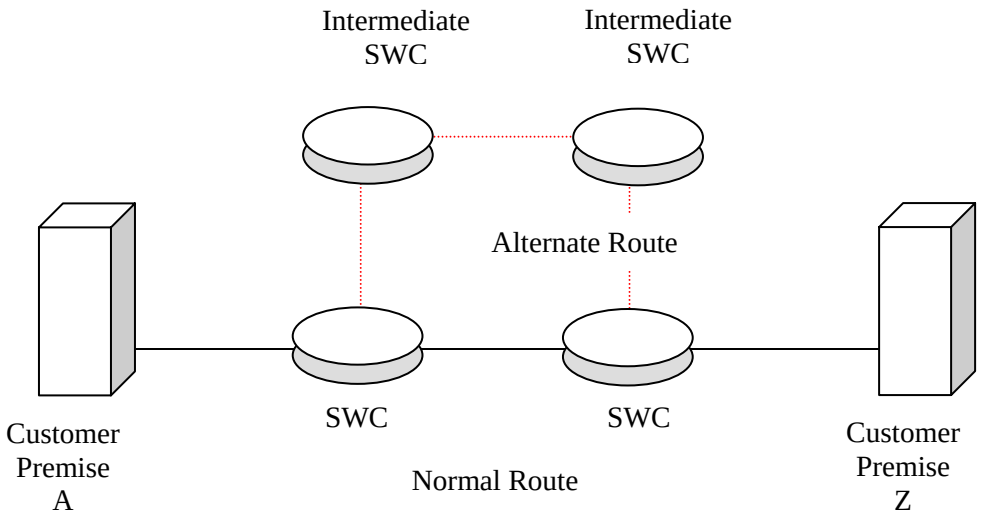
Inter-wire center diversity does not provide for full diversity; it only offers interoffice diversity. If a customer desires full diversity, Alternate Wire Center Diversity must be implemented along with Inter-Wire Center Diversity. Additionally, arrangements must be made for constructing dual entrance facilities at the customer's premise, at the customer's expense.



FIBREMAN[SM] SERVICE

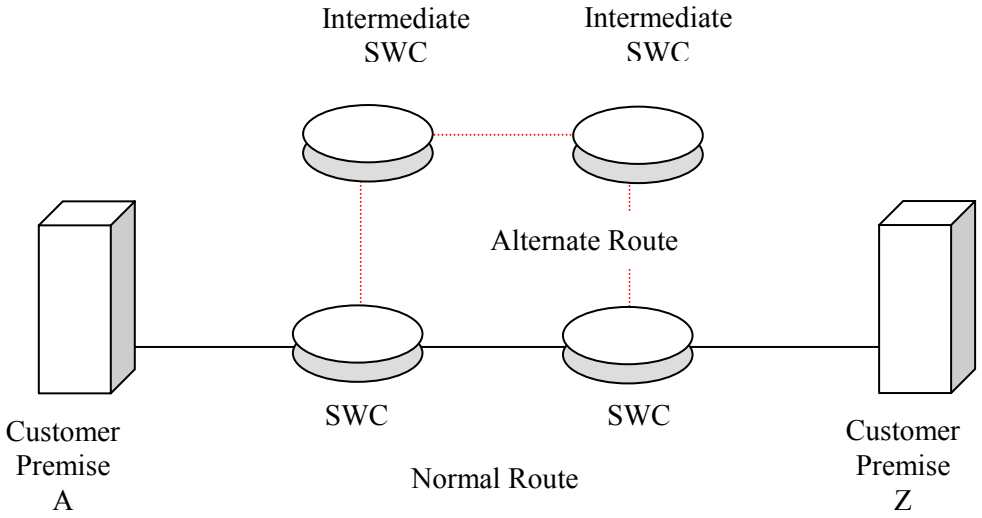
7. SERVICE CONFIGURATIONS (cont'd)

7.2 Diversity Options (cont'd)

7.2.2 Inter-Wire Center Diversity (IWCD)

Inter-Wire Center Diversity arrangements presume that each end of a FibreMAN local distribution channel is served out of a different serving wire center (SWC). This arrangement provides a transmission path for FibreMAN local distribution channels between the customer's designated SWC and the serving wire center at the distant end of the circuit, over a transmission path that is separate from the standard transmission path between the two wire centers. Interoffice mileage will be calculated between the intermediate serving wire centers along the circuit path of the diversely routed FibreMAN Service. Inter-Wire Center Diversity requires two FibreMAN Services purchased by the same customer of record.

Inter-wire center diversity does not provide for full diversity; it only offers interoffice diversity. If a customer desires full diversity, Alternate Wire Center Diversity must be implemented along with Inter-Wire Center Diversity. Additionally, arrangements must be made for constructing dual entrance facilities at the customer's premise, at the customer's expense.

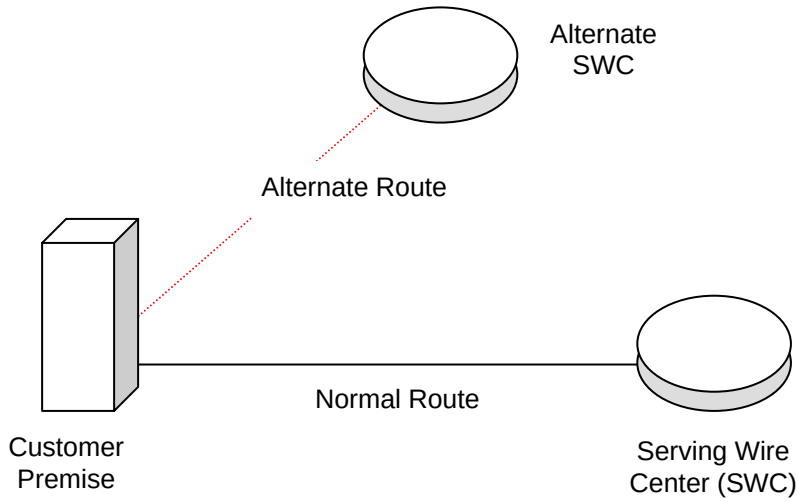


7. Service Configurations (cont'd)

7.2 Diversity Options (cont'd)

7.2.3 Alternate Wire Center Diversity (AWCD)

Alternate Wire Center Diversity is for the local loop only. It provides a local channel transmission path for FibreMAN Service between the customer's designated premises and a wire center that is not the normal (or standard) serving wire center. The Company will choose the alternate wire center closest to the customer's designated premise that is capable of providing FibreMAN Service over the alternate route. Alternate Wire Center Diversity does not require the purchase of two FibreMAN Services by (or for the benefit of) the same customer, nor does it require the customer to have an existing FibreMAN circuit operating over the normal (or standard) route to the normal (or standard) serving wire center. With this arrangement, one or more local distribution channels will be provisioned over the alternate route. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premise, at the customer's expense.



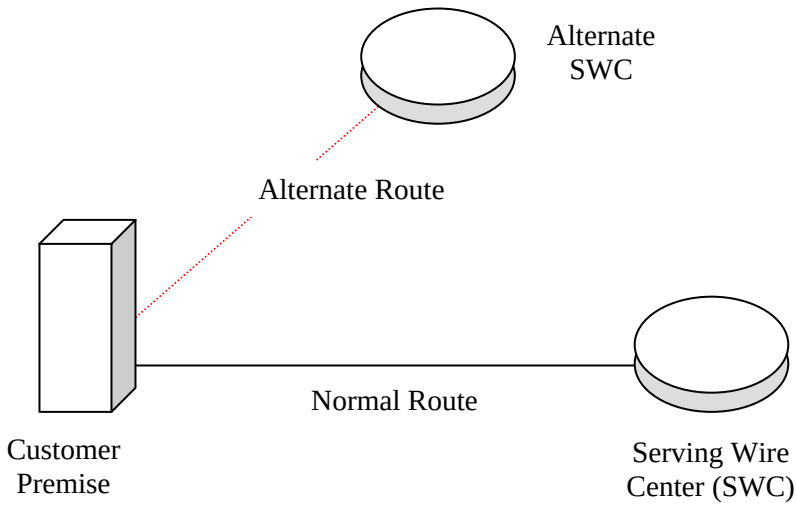
FIBREMAN[SM] SERVICE

7. SERVICE CONFIGURATIONS (cont'd)

7.2 Diversity Options (cont'd)

7.2.3 Alternate Wire Center Diversity (AWCD)

Alternate Wire Center Diversity is for the local loop only. It provides a local channel transmission path for FibreMAN Service between the customer's designated premises and a wire center that is not the normal (or standard) serving wire center. The Company will choose the alternate wire center closest to the customer's designated premise that is capable of providing FibreMAN Service over the alternate route. Alternate Wire Center Diversity (CT) does not require the purchase of two FibreMAN Services by (or for the benefit of) the same (CT) customer, nor does it require the customer to have an existing FibreMAN circuit operating over the normal (or standard) route to the normal (or standard) serving wire center. With this arrangement, one or more local distribution channels will be provisioned over the alternate route. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premise, at the customer's expense.



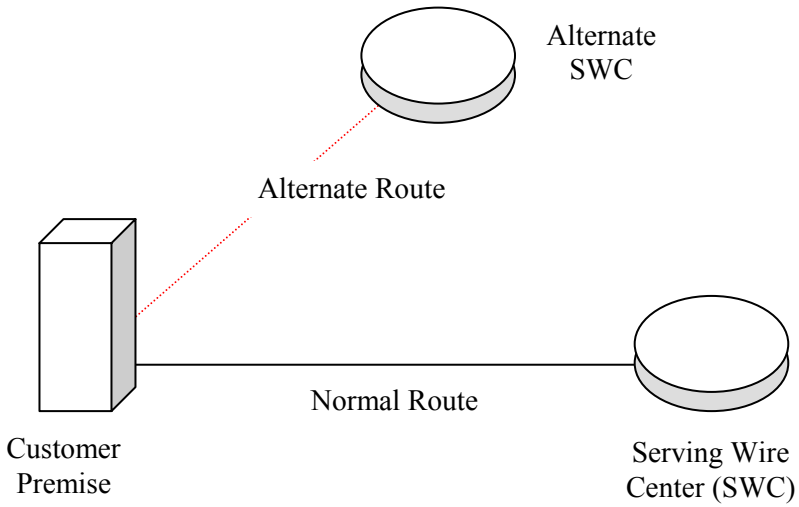
FIBREMAN[SM] SERVICE

7. SERVICE CONFIGURATIONS (cont'd)

7.2 Diversity Options (cont'd)

7.2.3 Alternate Wire Center Diversity (AWCD)

Alternate Wire Center Diversity is for the local loop only. It provides a local channel transmission path for FibreMAN Service between the customer's designated premises and a wire center that is not the normal (or standard) serving wire center. The Company will choose the alternate wire center closest to the customer's designated premise that is capable of providing FibreMAN Service over the alternate route. Alternate Wire Center Diversity does not require two FibreMAN Services purchased by the same customer of record, nor does it require the customer to have an existing FibreMAN circuit operating over the normal (or standard) route to the normal (or standard) serving wire center. With this arrangement, one or more local distribution channels will be provisioned over the alternate route. If a customer desires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premise, at the customer's expense.



FIBREMAN® SERVICE (CT)

8. Rates and Charges

There are two types of rates and charges for FibreMAN: Installation Charges and Recurring Rates.

8.1 Installation Charges are one-time charges that apply for specific work activity related to the provisioning of FibreMAN Service.

Installation Charge
- per Local Distribution Channel (LDC) $ 1,500.00

8.2 Recurring rates are flat recurring rates that apply each month or fraction thereof that the service is provided. Recurring rates may be applied only over a 12-, 24-, 36-, or 60-month period under the terms and conditions of the Term Pricing Plan (TPP), described in Paragraph I. following. Upon completion of a TPP, a customer's service will automatically convert to the Monthly Extension Rates unless the customer requests a new TPP. No customer shall purchase FibreMAN at the Monthly Extension Rate basis prior to the completion of a TPP.

		Monthly Extension	Term Pricing Plan Monthly Contract Rates			
	USOC	Rate	12 Month	24 Month	36 Month	60 Month
LDC						
2 Gbps	1D99X	$6,174.00	$5,145.00	$4,200.00	$4,000.00	$3,500.00
1 Gbps	1D98X	4,410.00	3,675.00	3,100.00	2,850.00	2,500.00
ICM	JZ4YS					
Fixed		250.00	250.00	225.00	200.00	100.00
Per Mile		125.00	125.00	115.00	100.00	75.00
RPTR	VU4	2,500.00	2,400.00	1,700.00	1,150.00	850.00
Diversity						
LCD	DJVYX	750.00	750.00	750.00	750.00	750.00
IWCD	DEQYX	500.00	500.00	500.00	500.00	500.00
AWCD	AVOYX	1,200.00	1,200.00	1,200.00	1,200.00	1,200.00

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

Digital Link Services Tariff
Section 24
1st Revised Sheet 9
Replacing Original Sheet 9

FIBREMAN[SM] SERVICE

8. RATES AND CHARGES

There are two types of rates and charges for FibreMAN: Installation Charges and Recurring Rates.

8.1 Installation Charges are one-time charges that apply for specific work activity related to the provisioning of FibreMAN Service.

Installation Charge
- per Local Distribution Channel (LDC) $ 1,500.00

8.2 Recurring rates are flat recurring rates that apply each month or fraction thereof that the service is provided. Recurring rates may be applied only over a 12-, 24-, 36-, or 60-month period under the terms and conditions of the Term Pricing Plan (TPP), described in Paragraph I. following. Upon completion of a TPP, a customer's service will automatically convert to the Monthly Extension Rates unless the customer requests a new TPP. No customer shall purchase FibreMAN at the Monthly Extension Rate basis prior to the completion of a TPP.

		USOC	Monthly Extension Rate	Term Pricing Plan Monthly Contract Rates 12 Month	24 Month	36 Month	60 Month
	LDC						
	2 Gbps	1D99X	$6,174.00	$5,145.00	$4,200.00	$4,000.00	$3,500.00
	1 Gbps	1D98X	4,410.00	3,675.00	3,100.00	2,850.00	2,500.00
	ICM	JZ4YS					
	Fixed		250.00	250.00	225.00	200.00	100.00
	Per Mile		125.00	125.00	115.00	100.00	75.00
(AT)	RPTR	VU4	2,500.00	2,400.00	1,700.00	1,150.00	850.00
	Diversity						
	LCD	DJVYX	750.00	750.00	750.00	750.00	750.00
	IWCD	DEQYX	500.00	500.00	500.00	500.00	500.00
	AWCD	AVOYX	1,200.00	1,200.00	1,200.00	1,200.00	1,200.00

FIBREMAN[SM] SERVICE

8. RATES AND CHARGES

There are two types of rates and charges for FibreMAN: Installation Charges and Recurring Rates.

8.1 Installation Charges are one-time charges that apply for specific work activity related to the provisioning of FibreMAN Service.

Installation Charge
- per Local Distribution Channel (LDC) $ 1,500.00

8.2 Recurring rates are flat recurring rates that apply each month or fraction thereof that the service is provided. Recurring rates may be applied only over a 12-, 24-, 36-, or 60-month period under the terms and conditions of the Term Pricing Plan (TPP), described in Paragraph I. following. Upon completion of a TPP, a customer's service will automatically convert to the Monthly Extension Rates unless the customer requests a new TPP. No customer shall purchase FibreMAN at the Monthly Extension Rate basis prior to the completion of a TPP.

	USOC	Monthly Extension Rate	Term Pricing Plan Monthly Contract Rates 12 Month	24 Month	36 Month	60 Month
LDC						
2 Gbps	1D99X	$6,174.00	$5,145.00	$4,200.00	$4,000.00	$3,500.00
1 Gbps	1D98X	4,410.00	3,675.00	3,100.00	2,850.00	2,500.00
ICM	JZ4YS					
Fixed		250.00	250.00	225.00	200.00	100.00
Per Mile		125.00	125.00	115.00	100.00	75.00
Diversity						
LCD	DJVYX	750.00	750.00	750.00	750.00	750.00
IWCD	DEQYX	500.00	500.00	500.00	500.00	500.00
AWCD	AVOYX	1,200.00	1,200.00	1,200.00	1,200.00	1,200.00

9. Term Pricing Plan (TPP)

9.1 The TPP provides for 12-, 24-, 36-, or 60-month rate stabilization. Decreases in term monthly recurring tariff rates will be passed on to customers who participate in a TPP. The Company will notify customers participating in a TPP when term monthly recurring rates are decreased.

Should the Company increase its rates during the TPP period, the customer would continue to pay the rates in effect at the time the customer elected to establish service under the TPP.

9.2 The customer may choose to terminate an existing TPP before the end of the 12-, 24-, 36-, or 60-month period and negotiate a new 12-, 24-, 36-, or 60-month TPP. The new TPP must be based upon the rates that are currently in effect and available to all customers.

9.3 The customer must provide the Company with a written notice of intent to renew a TPP no later than 90 days prior to its expiration. If the customer elects not to renew the TPP, or does not notify the Company of the customer's intent to renew the TPP, the service will automatically be billed under the tariffed monthly extension rates in effect at the time that TPP expires. Subsequently, customers under the tariffed monthly extension rates may convert their existing service to either a 12-, 24-, 36-, or 60-month TPP. Nonrecurring charges will be waived at the time of conversion.

9.4 Any special construction charges incurred for services billed under a TPP will be applicable as provided for in Section 1 of this tariff.

9.5 If the customer terminates the TPP agreement prior to the expiration of the 12-, 24-, 36-, or 60-month service term, the customer shall pay a termination charge. Payment of the termination charge does not release the customer from other previous amounts owed to the Company. The termination charge shall be:

- All unpaid Special Construction or nonrecurring charges (excluding any waived charges); plus
- Fifty percent (50%) of all recurring charges for the remaining months of the customer's term

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

FIBREMAN[SM] SERVICE

9. TERM PRICING PLAN (TPP)

9.1 The TPP provides for 12-, 24-, 36-, or 60-month rate stabilization. Decreases in term monthly recurring tariff rates will be passed on to customers who participate in a TPP. The Company will notify customers participating in a TPP when term monthly recurring rates are decreased.

Should the Company increase its rates during the TPP period, the customer would continue to pay the rates in effect at the time the customer elected to establish service under the TPP.

9.2 The customer may choose to terminate an existing TPP before the end of the 12-, 24-, 36-, or 60-month period and negotiate a new 12-, 24-, 36-, or 60-month TPP. The new TPP must be based upon the rates that are currently in effect and available to all customers.

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(CT) - All unpaid Special Construction or nonrecurring charges (excluding any waived charges); plus

(CT) - Fifty percent (50%) of all recurring charges for the remaining months of the customer's term

(MT)

FIBREMAN[SM] SERVICE

9. TERM PRICING PLAN (TPP)

9.1 The TPP provides for 12-, 24-, 36-, or 60-month rate stabilization. Decreases in term monthly recurring tariff rates will be passed on to customers who participate in a TPP. The Company will notify customers participating in a TPP when term monthly recurring rates are decreased.

Should the Company increase its rates during the TPP period, the customer would continue to pay the rates in effect at the time the customer elected to establish service under the TPP.

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9.3 The customer must provide the Company with a written notice of intent to renew a TPP no later than 90 days prior to its expiration. If the customer elects not to renew the TPP, or does not notify the Company of the customer's intent to renew the TPP, the service will automatically be billed under the tariffed monthly extension rates in effect at the time that TPP expires. Subsequently, customers under the tariffed monthly extension rates may convert their existing service to either a 12-, 24-, 36-, or 60-month TPP. Nonrecurring charges will be waived at the time of conversion.

9.4 Any special construction charges incurred for services billed under a TPP will be applicable as provided for in Section 1 of this tariff.

9.5 If the customer terminates the TPP agreement prior to the expiration of the 12-, 24-, 36-, or 60-month service term, the customer shall pay a termination charge. Payment of the termination charge does not release the customer from other previous amounts owed to the Company. The termination charge shall be:

- All waived and/or unpaid nonrecurring charges; plus
- Fifty percent (50%) of all recurring charges for the balance of the customer's term

9.6 During a TPP term, a customer may move one Local Distribution Channel of a FibreMAN Service to another location in the same LATA and keep the TPP in force (without assessment of Termination Charges), provided no lapse in service occurs. Nonrecurring charges, as appropriate, will apply.

9. Term Pricing Plan (TPP) (cont'd)

9.6 Customers will be permitted to move one end of a FibreMAN Service to another location, without incurring Termination Charges, given the following conditions are met:

- The customer must issue a disconnect order for the existing location and place a new service order for FibreMAN Service at the new location. Termination Charges for the existing location will be waived. Standard nonrecurring charges to install FibreMAN Service as a new circuit will apply.

- Negotiated down time will apply, as the new circuit will need to be designed and installed.

- The term of the new contract must be equal to or greater than the remaining time left on the existing FibreMAN contract.

- The existing FibreMAN Service must have been in service for a minimum period of 12 months for a 2-year contract, 15 months for a 3-year contract or 18 months for a 5-year contract. Existing FibreMAN Service with 1-year contracts will not be eligible for this Moves option.

Moves are contingent on availability of fiber from premise to premise. Other Special Construction charges, as necessary, may apply.

FIBREMAN[SM] SERVICE

(CT) 9. TERM PRICING PLAN (TPP) (cont'd)

(MT)(CP) 9.6 Customers will be permitted to move one end of a FibreMAN Service to another location, without incurring Termination Charges, given the following conditions are met:

- The customer must issue a disconnect order for the existing location and place a new service order for FibreMAN Service at the new location. Termination Charges for the existing location will be waived. Standard nonrecurring charges to install FibreMAN Service as a new circuit will apply.

- Negotiated down time will apply, as the new circuit will need to be designed and installed.

- The term of the new contract must be equal to or greater than the remaining time left on the existing FibreMAN contract.

- The existing FibreMAN Service must have been in service for a minimum period of 12 months for a 2-year contract, 15 months for a 3-year contract or 18 months for a 5-year contract. Existing FibreMAN Service with 1-year contracts will not be eligible for this Moves option.

(MT)(CP) Moves are contingent on availability of fiber from premise to premise. Other Special Construction charges, as necessary, may apply.

OPT-E-MAN® SERVICE (CT)

1. GENERAL DESCRPTION

OPT-E-MAN® Service is an optically switched data service which allows for versatile scalability and flexibility over an Ethernet network provided by the Company. OPT-E-MAN Service allows businesses to interconnect customer locations within a Metropolitan Area Network (MAN) as if they were segments on the same LAN using packet-based switching technologies. Connections at the customer premises are made using Native Ethernet interfaces and traverse the MAN over fiber facilities. OPT-E-MAN Service provides dedicated bandwidth from 5 Mbps up to 1 Gbps.

Customers connect to OPT-E-MAN Service via one of the following standard connections, as requested by the customer:

- 10/100 Base T (100 Mbps)
- Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX)/1/

Customers may connect any two or more locations together when utilizing a point-to-point or point-to-multipoint configuration, and a minimum of three or more locations when utilizing a multipoint-to-multipoint configuration/2/, as long as they are in the same LATA or MAN and the service is available.

OPT-E-MAN Service includes the connection from the customer's premise to the Ethernet network, a port on the Ethernet network, a Committed Information Rate (CIR), and Ethernet Virtual Connections (EVCs). Ethernet Virtual Connections (EVCs) are logical connections that establish a logical path for customer traffic between two customer locations. A portion of the CIR is assigned to each EVC to establish how much bandwidth each path should have.

/1/ CIR is inclusive of allowances for overhead within the Ethernet network. If a customer orders 1 Gbps of CIR on a single port, the Company reserves the right to use up to 10% of the bandwidth for traffic management.
/2/ This provisioning requirement will only apply to new service installed after November 29, 2006.

OPT-E-MAN[sm] SERVICE

1. General Description

OPT-E-MAN® Service is an optically switched data service which allows for versatile scalability and flexibility over an Ethernet network provided by the Company. OPT-E-MAN Service allows businesses to interconnect customer locations within a Metropolitan Area Network (MAN) as if they were segments on the same LAN using packet-based switching technologies. Connections at the customer premises are made using Native Ethernet interfaces and traverse the MAN over fiber facilities. OPT-E-MAN Service provides dedicated bandwidth from 5 Mbps up to 1 Gbps. (RT)

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- 10/100 Base T (100 Mbps)
- Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX)/1/

Customers may connect any two or more locations together when utilizing a point-to-point or point-to-multipoint configuration, and a minimum of three or more locations when utilizing a multipoint-to-multipoint configuration/2/, as long as they are in the same LATA or MAN and the service is available. (CP) (CP)

(RT) (RT)

OPT-E-MAN Service includes the connection from the customer's premise to the Ethernet network, a port on the Ethernet network, a Committed Information Rate (CIR), and Ethernet Virtual Connections (EVCs). Ethernet Virtual Connections (EVCs) are logical connections that establish a logical path for customer traffic between two customer locations. A portion of the CIR is assigned to each EVC to establish how much bandwidth each path should have.

/1/ CIR is inclusive of allowances for overhead within the Ethernet network. If a customer orders 1 Gbps of CIR on a single port, the Company reserves the right to use up to 10% of the bandwidth for traffic management.

/2/ This provisioning requirement will only apply to new service installed after November 29, 2006. (AT)

(CT)

OPT-E-MAN® SERVICE

1. GENERAL DESCRIPTION

OPT-E-MAN® Service is an optically switched data service which allows for versatile scalability and flexibility over an Ethernet network provided by the Company. OPT-E-MAN Service allows businesses to interconnect two or more customer locations within a Metropolitan Area Network (MAN) as if they were segments on the same LAN using packet-based switching technologies. Connections at the customer premises are made using Native Ethernet interfaces and traverse the MAN over fiber facilities. OPT-E-MAN Service provides dedicated bandwidth from 5 Mbps up to 1 Gbps.

Customers connect to OPT-E-MAN Service via one of the following standard connections, as requested by the customer:

- 10/100 Base T (100 Mbps)
- Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX)/1/

Customers may connect any two or more locations together, as long as they are in the same LATA or MAN and the service is available. This service offers logical Ethernet-to-Ethernet LAN connections available in the following configurations:

- point-to-point
- point-to-multipoint, or
- multipoint-to-multipoint

OPT-E-MAN Service includes the connection from the customer's premise to the Ethernet network, a port on the Ethernet network, a Committed Information Rate (CIR), and Ethernet Virtual Connections (EVCs). Ethernet Virtual Connections (EVCs) are logical connections that establish a logical path for customer traffic between two customer locations. A portion of the CIR is assigned to each EVC to establish how much bandwidth each path should have.

/1/ CIR is inclusive of allowances for overhead within the Ethernet network. If a customer orders 1 Gbps of CIR on a single port, the Company reserves the right to use up to 10% of the bandwidth for traffic management.

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

OPT-E-MAN[SM] SERVICE

1. GENERAL DESCRIPTION

OPT-E-MAN[SM] Service is an optically switched data service which allows for versatile scalability and flexibility over an Ethernet network provided by the Company. OPT-E-MAN Service allows businesses to interconnect two or more customer locations within a Metropolitan Area Network (MAN) as if they were segments on the same LAN using packet-based switching technologies. Connections at the customer premises are made using Native Ethernet interfaces and traverse the
(CP) MAN over fiber facilities. OPT-E-MAN Service provides dedicated bandwidth from 5 Mbps up to 1 Gbps.

Customers connect to OPT-E-MAN Service via one of the following standard connections, as requested by the customer:

- 10/100 Base T (100 Mbps)
- Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX)/1/

Customers may connect any two or more locations together, as long as they are in the same LATA
(CT) or MAN and the service is available. This service offers logical Ethernet-to-Ethernet LAN
(CT) connections available in the following configurations:

(AT) - point-to-point
(AT) - point-to-multipoint, or
(AT) - multipoint-to-multipoint

OPT-E-MAN Service includes the connection from the customer's premise to the Ethernet network,
(CT) a port on the Ethernet network, a Committed Information Rate (CIR), and Ethernet Virtual
(CT) Connections (EVCs). Ethernet Virtual Connections (EVCs) are logical connections that establish a
(CT) logical path for customer traffic between two customer locations. A portion of the CIR is assigned
(CT) to each EVC to establish how much bandwidth each path should have.

(MT)
|
(MT)

(CT) /1/ CIR is inclusive of allowances for overhead within the Ethernet network. If a customer orders
(CP) 1 Gbps of CIR on a single port, the Company reserves the right to use up to 10% of the bandwidth for traffic management.

OPT-E-MAN[SM] SERVICE

1. GENERAL DESCRIPTION

OPT-E-MAN[SM] Service is an optically switched data service which allows for versatile scalability and flexibility over an Ethernet network provided by the Company. OPT-E-MAN Service allows businesses to interconnect two or more customer locations within a Metropolitan Area Network (MAN) as if they were segments on the same LAN using packet-based switching technologies. Connections at the customer premises are made using Native Ethernet interfaces and traverse the MAN over fiber facilities. OPT-E-MAN Service provides dedicated bandwidth from 10 Mbps up to 1 Gbps.

Customers connect to OPT-E-MAN Service via one of the following standard connections, as requested by the customer:

- 10/100 Base T (100 Mbps)
- Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX)/1/

Customers may connect any two or more locations together, as long as they are in the same LATA or MAN and the service is available. This service offers logical point-to-point or point-to-multipoint configurations that support Ethernet-to-Ethernet LAN connections.

OPT-E-MAN Service includes the connection from the customer's premise to the Ethernet network, a port on the Ethernet network and an assigned Bandwidth Usage (which includes a Committed Information Rate (CIR) and one Ethernet Virtual Connection (EVC)).

OPT-E-MAN is provided under several service configurations:

Basic — The OPT-E-MAN Basic service configuration provides the customer a switched, logical point-to-point connection between two customer locations, using a physical connection to the network, and a virtual connection through the OPT-E-MAN network.

/1/ Bandwidth Usage is inclusive of allowances for overhead within the Ethernet network. If a customer orders 1 Gbps of CIR on a single port, the Company reserves the right to use up to 70 Mbps of bandwidth for traffic management.

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

(CT)

OPT-E-MAN® SERVICE

1. GENERAL DESCRIPTION (cont'd)

OPT-E-MAN is provided under several service configurations:

Basic — The OPT-E-MAN Basic service configuration provides the customer a switched, logical point-to-point or point-to-multipoint connection between customer locations, using a physical connection to the network, and virtual connections through the OPT-E-MAN network.

Basic Plus — The OPT-E-MAN Basic Plus service configuration provides the customer a switched, logical point-to-point, point-to-multipoint or multipoint-to-multipoint connection between customer locations, using a physical connection to the network, and virtual connections through the OPT-E-MAN network.

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

OPT-E-MAN[SM] SERVICE

1. GENERAL DESCRIPTION (cont'd)

(MT) OPT-E-MAN is provided under several service configurations:

Basic — The OPT-E-MAN Basic service configuration provides the customer a switched, (AT) logical point-to-point or point-to-multipoint connection between customer locations, (CT) using a physical connection to the network, and virtual connections through the (MT) OPT-E-MAN network.

(AT) Basic Plus — The OPT-E-MAN Basic Plus service configuration provides the customer a switched, logical point-to-point, point-to-multipoint or multipoint-to-multipoint connection between customer locations, using a physical connection to the network, and virtual (AT) connections through the OPT-E-MAN network.

Issued: February 15, 2005

Effective: March 18, 2005

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

(CT) OPT-E-MAN® SERVICE

1. GENERAL DESCRIPTION (cont'd)

Service configurations include a choice of one of two underlying Grades of Service: Bronze and Silver. Each Grade of Service offers a different level of service performance. The following describes the service parameters for each Grade of Service.

Bronze

The applications best suited for this Grade of Service are general data applications with more tolerance for delay and/or those that are lower in priority. This Grade of Service is the appropriate selection for general data traffic since it tolerates bursty and time-varying traffic. The service parameters associated with this Grade of Service are Packet Delivery Rate (PDR) and Latency.

Packet Delivery Rate is at least 99.5% of total traffic from source Network Terminating Equipment (NTE) to the destination NTE to which the customer port is attached.

(CP) Latency is limited to a delay across a connection of no more than 27 ms (54 ms roundtrip) one-way end-to-end within the Company's network for packets 1500 bytes or less.

Silver

This Grade of Service supports applications that require minimal loss and low latency variation (jitter). Data in this Grade of Service will be provisioned in a priority queue indicating that it is delay sensitive. The service parameters associated with this Grade of Service are Packet Delivery Rate (PDR), Latency and Jitter.

Packet Delivery Rate is at least 99.9% of total traffic from source Network Terminating Equipment (NTE) to the destination NTE to which the customer port is attached.

(CP) Latency is limited to a delay across a connection of no more than 18 ms (36 ms roundtrip) one-way end-to-end within the Company's network for packets 1500 bytes or less.

(CP) Jitter is limited to less than 12 ms one-way end-to-end within the Company's network.

OPT-E-MAN[SM] SERVICE

1. GENERAL DESCRIPTION (cont'd)

Service configurations include a choice of one of two underlying Grades of Service: Bronze and
(CT) Silver. Each Grade of Service offers a different level of service performance. The following
(CT) describes the service parameters for each Grade of Service.

Bronze — The applications best suited for this Grade of Service are general data applications with more tolerance for delay and/or those that are lower in priority. This Grade of Service is the appropriate selection for general data traffic since it tolerates bursty and time-varying traffic. The service parameters associated with this Grade of Service are Packet Delivery Rate (PDR) and Latency.

Packet Delivery Rate is at least 99.5% of total traffic from source Network Terminating Equipment (NTE) to the destination NTE to which the customer port is attached.

(CP) Latency is limited to a delay across a connection of no more than 35 ms (70 ms roundtrip) one-way end-to-end within the Company's network for packets 1500 bytes or less.

Silver — This Grade of Service supports applications that require minimal loss and low latency variation (jitter). Data in this Grade of Service will be provisioned in a priority queue indicating that it is delay sensitive. The service parameters associated with this Grade of Service are Packet Delivery Rate (PDR), Latency and Jitter.

Packet Delivery Rate is at least 99.9% of total traffic from source Network Terminating Equipment (NTE) to the destination NTE to which the customer port is attached.

(CP) Latency is limited to a delay across a connection of no more than 25 ms (50 ms roundtrip) one-way end-to-end within the Company's network for packets 1500 bytes or less.

(CP) Jitter is limited to less than 15 ms one-way end-to-end within the Company's network.

OPT-E-MAN[SM] SERVICE

1. GENERAL DESCRIPTION (cont'd)

Service configurations include a choice of one of two underlying Grades of Service: Bronze and Silver. Each Grade of Service guarantees a different level of service performance. The following describes the service parameters guaranteed with each Grade of Service.

Bronze

The applications best suited for this Grade of Service are general data applications with more tolerance for delay and/or those that are lower in priority. This Grade of Service is the appropriate selection for general data traffic since it tolerates bursty and time-varying traffic. The service parameters associated with this Grade of Service are Packet Delivery Rate (PDR) and Latency.

Packet Delivery Rate is at least 99.5% of total traffic from source Network Terminating Equipment (NTE) to the destination NTE to which the customer port is attached.

Latency is limited to a delay across a connection of no more than 65 ms (130 ms roundtrip) one-way end-to-end within the Company's network for packets 1500 bytes or less.

Silver

This Grade of Service supports applications that require minimal loss and low latency variation (jitter). Data in this Grade of Service will be provisioned in a priority queue indicating that it is delay sensitive. The service parameters associated with this Grade of Service are Packet Delivery Rate (PDR), Latency and Jitter.

Packet Delivery Rate is at least 99.9% of total traffic from source Network Terminating Equipment (NTE) to the destination NTE to which the customer port is attached.

Latency is limited to a delay across a connection of no more than 55 ms (110 ms roundtrip) one-way end-to-end within the Company's network for packets 1500 bytes or less.

Jitter is limited to less than 20 ms one-way end-to-end within the Company's network.

(CT)

OPT-E-MAN® SERVICE

2. REGULATIONS

In addition to the regulations contained in this tariff, the following regulations apply to this service:

2.1 This service is available to customers in those LATAs served by and within the service territories of the Company only.

2.2 OPT-E-MAN Service is provided at the option of the Company where equipment and facilities permit. If appropriate facilities are not available, Special Construction charges may apply. OPT-E-MAN Service is available in Company Central Offices as specified in National Exchange Carrier Association, Inc., Tariff F.C.C. No. 4 (NECA Tariff F.C.C. No. 4).

2.3 The customer provided equipment (CPE) must deliver the data signal for the OPT-E-MAN transport within the industry specification for the subscribed data service. See ***TECHNICAL SPECIFICATIONS PACKAGES*** following.

2.4 OPT-E-MAN Service supports full duplex communication.

2.5 OPT-E-MAN Service does not allow for oversubscription. The sum total of the Usage assigned to EVCs are mapped to a single port, and cannot exceed the ordered CIR.

2.6 If a customer connects to the OPT-E-MAN network using a bridge or switch for Layer 2 connectivity, only 50 MAC addresses can be used per Layer 2 device, per port. Any additional addresses will be assessed an additional charge, with a limit of 100 MAC addresses total per port. See ***RATES AND CHARGES*** following.

2.7 If a customer desires service from a Serving Wire Center that is not equipped to provide OPT-E-MAN Service, additional charges may apply for use of a Repeater. A network engineering study will need to be completed to ensure adequate service provisioning is capable. See ***RATES AND CHARGES*** following.

2.8 For Basic Service, a total of 8 Ethernet Virtual Connections (EVCs) may be configured per 10/100 Base T connection, and a total of 64 EVCs may be configured per 1 Gbps connection. For Basic Plus Service, a total of 7 EVCs may be configured per 10/100 Base T connection, and a total of 63 EVCs may be configured per 1 Gbps connection. Should the customer request more than 64 EVCs on a Basic Service 1 Gbps connection, or more than 63 EVCs on a Basic Plus Service 1 Gbps connection, a technical review will need to be conducted to determine whether the network will support more EVCs.

OPT-E-MAN[SM] SERVICE

2. REGULATIONS

In addition to the regulations contained in this tariff, the following regulations apply to this service:

2.1 This service is available to customers in those LATAs served by and within the service territories of the Company only.

2.2 OPT-E-MAN Service is provided at the option of the Company where equipment and facilities permit. If appropriate facilities are not available, Special Construction charges may apply. OPT-E-MAN Service is available in Company Central Offices as specified in National Exchange Carrier Association, Inc., Tariff F.C.C. No. 4 (NECA Tariff F.C.C. No. 4).

2.3 The customer provided equipment (CPE) must deliver the data signal for the OPT-E-MAN transport within the industry specification for the subscribed data service. See ***TECHNICAL SPECIFICATIONS PACKAGES*** following.

2.4 OPT-E-MAN Service supports full duplex communication.

2.5 OPT-E-MAN Service does not allow for oversubscription. The sum total of the Usage assigned
(CT) to EVCs are mapped to a single port, and cannot exceed the ordered CIR.

2.6 If a customer connects to the OPT-E-MAN network using a bridge or switch for Layer 2 connectivity, only 50 MAC addresses can be used per Layer 2 device, per port. Any additional addresses will be assessed an additional charge, with a limit of 100 MAC addresses total per port. See ***RATES AND CHARGES*** following.

2.7 If a customer desires service from a Serving Wire Center that is not equipped to provide OPT-E-MAN Service, additional charges may apply for use of a Repeater. A network engineering study will need to be completed to ensure adequate service provisioning is capable. See ***RATES AND CHARGES*** following.

(AT) 2.8 For Basic Service, a total of 8 Ethernet Virtual Connections (EVCs) may be configured per
(CT) 10/100 Base T connection, and a total of 64 EVCs may be configured per 1 Gbps connection. For
(AT) Basic Plus Service, a total of 7 EVCs may be configured per 10/100 Base T connection, and a total of 63 EVCs may be configured per 1 Gbps connection. Should the customer request more than 64 EVCs on a Basic Service 1 Gbps connection, or more than 63 EVCs on a Basic Plus
(AT) Service 1 Gbps connection, a technical review will need to be conducted to determine whether the
(RT) network will support more EVCs.

OPT-E-MAN℠ SERVICE

2. REGULATIONS

In addition to the regulations contained in this tariff, the following regulations apply to this service:

2.1 This service is available to customers in those LATAs served by and within the service territories of the Company only.

2.2 OPT-E-MAN Service is provided at the option of the Company where equipment and facilities permit. If appropriate facilities are not available, Special Construction charges may apply. OPT-E-MAN Service is available in Company Central Offices as specified in National Exchange Carrier Association, Inc., Tariff F.C.C. No. 4 (NECA Tariff F.C.C. No. 4).

2.3 The customer provided equipment (CPE) must deliver the data signal for the OPT-E-MAN transport within the industry specification for the subscribed data service. See ***TECHNICAL SPECIFICATIONS PACKAGES*** following.

2.4 OPT-E-MAN Service supports full duplex communication.

2.5 OPT-E-MAN Service does not allow for oversubscription. The sum total of the Usage assigned to EVCs are mapped to a single port, and cannot exceed the ordered Bandwidth Usage.

2.6 If a customer connects to the OPT-E-MAN network using a bridge or switch for Layer 2 connectivity, only 50 MAC addresses can be used per Layer 2 device, per port. Any additional addresses will be assessed an additional charge, with a limit of 100 MAC addresses total per port. See ***RATES AND CHARGES*** following.

2.7 If a customer desires service from a Serving Wire Center that is not equipped to provide OPT-E-MAN Service, additional charges may apply for use of a Repeater. A network engineering study will need to be completed to ensure adequate service provisioning is capable. See ***RATES AND CHARGES*** following.

2.8 A total of 8 Ethernet Virtual Connections (EVCs) may be configured per 10/100 Base T connection. A total of 64 EVCs may be configured per 1 Gbps connection. Should the customer request more than 64 EVCs on a 1 Gbps connection, a technical review will need to be conducted to determine whether the network will support more than 64 EVCs.

(CT)

OPT-E-MAN® SERVICE

2. REGULATIONS (cont'd)

2.9 If a customer desires that service be provided on a due date less than the standard interval, the customer may request that service be provided on an expedited basis. If the Company determines that service can be provided on the requested expedited date and spare facilities are available, the Expedite Order Charge (per port, per location) will apply. See ***RATES AND CHARGES*** following.

2.10 If the customer cancels service prior to installation being completed, a Service Order Cancellation Charge (per port, per location) will apply. See ***RATES AND CHARGES*** following. The customer's intent to cancel service must be made in writing.

2.11 The CIR selected by the customer must be committed to for a 30 day period before an increase in CIR can be requested.

2.12 OPT-E-MAN Service is not available in a meet-point billing arrangement involving other Carriers.

2.13 A Letter of Authorization (LOA) will need to be established if customers want to purchase a logical connection via an Ethernet Virtual Connection (EVC) to another customer in order to ensure security and accuracy in the connection.

2.14 Allowance for Interruption

In case of an interruption to service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100% of the applicable monthly rates.

The Company's failure to provide or maintain services under this tariff shall be excused by force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.

OPT-E-MAN[SM] SERVICE

2. REGULATIONS (cont'd)

2.9 If a customer desires that service be provided on a due date less than the standard interval, the customer may request that service be provided on an expedited basis. If the Company determines that service can be provided on the requested expedited date and spare facilities are available, the Expedite Order Charge (per port, per location) will apply. See ***RATES AND CHARGES*** following.

(CT) 2.10 If the customer cancels service prior to installation being completed, a Service Order Cancellation Charge (per port, per location) will apply. See ***RATES AND CHARGES*** following. The customer's intent to cancel service must be made in writing.

(CT) 2.11 The CIR selected by the customer must be committed to for a 30 day period before an increase
(CT) in CIR can be requested.

2.12 OPT-E-MAN Service is not available in a meet-point billing arrangement involving other Carriers.

2.13 A Letter of Authorization (LOA) will need to be established if customers want to purchase a logical connection via an Ethernet Virtual Connection (EVC) to another customer in order to ensure security and accuracy in the connection.

2.14 Allowance for Interruption

In case of an interruption to service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100% of the applicable monthly rates.

The Company's failure to provide or maintain services under this tariff shall be excused by force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.

OPT-E-MAN℠ SERVICE

2. REGULATIONS (cont'd)

2.9 If a customer desires that service be provided on a due date less than the standard interval, the customer may request that service be provided on an expedited basis. If the Company determines that service can be provided on the requested expedited date and spare facilities are available, the Expedite Order Charge (per port, per location) will apply. See ***RATES AND CHARGES*** following.

2.10 If the customer cancels service prior to installation being completed, a Service Order Cancellation charge (per port, per location) will apply. See ***RATES AND CHARGES*** following. The customer's intent to cancel service must be made in writing.

2.11 The Bandwidth Usage selected by the customer must be committed to for a 30 day period before an increase in Bandwidth Usage can be requested.

2.12 OPT-E-MAN Service is not available in a meet-point billing arrangement involving other Carriers.

2.13 A Letter of Authorization (LOA) will need to be established if customers want to purchase a logical connection via an Ethernet Virtual Connection (EVC) to another customer in order to ensure security and accuracy in the connection.

2.14 Allowance for Interruption

In case of an interruption to service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100% of the applicable monthly rates.

The Company's failure to provide or maintain services under this tariff shall be excused by force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.

(CT) OPT-E-MAN® SERVICE

2. REGULATIONS (cont'd)

2.15 Service Level Agreements (SLAs) are offered with this service, and provide customers with end-to-end performance backed by service credits if minimum quality standards are not met by the Company.

Network Availability

- Network Availability of 99.95% per month, including the local loop, is provided by the Company. This equates to less than 21.6 minutes of downtime per month (based on a 30-day month), excluding maintenance windows and other appropriate exclusions (see Exclusions following). Network Availability is calculated as the percentage of time that the OPT-E-MAN network is capable of accepting and delivering customer data to the total time in the measurement period. The calculation for Network Availability for a given calendar month is as follows:

Network Availability =
[24 hours x days in month x 60 minutes x number of customer sites] – network outage time (measured in minutes)

[24 hours x days in month x 60 minutes x number of customer sites]

- As noted in the above formula, all ports included in a customer's network are utilized in calculating *Network Availability*.
- The customer is responsible for (1) notifying the Company within 45 days after the end of the month when the service parameter falls below the committed level, and (2) requesting a service credit.
- Upon verification by the Company that the actual service performance for that parameter was less than the committed level, the customer will be provided a service credit equal to 10% of the monthly recurring charge for that service parameter for all affected ports.

OPT-E-MAN[SM] SERVICE

2. REGULATIONS (cont'd)

2.15 Service Level Agreements (SLAs) are offered with this service, and provide customers with end-to-end performance backed by service credits if minimum quality standards are not met by the Company. (CT)

Network Availability

- Network Availability of 99.95% per month, including the local loop, is provided by the Company. This equates to less than 21.6 minutes of downtime per month (based on a 30-day month), excluding maintenance windows and other appropriate exclusions (see Exclusions following). Network Availability is calculated as the percentage of time that the OPT-E-MAN network is capable of accepting and delivering customer data to the total time in the measurement period. The calculation for Network Availability for a given calendar month is as follows: (CT) (CT) (AT)

Network Availability =
[24 hours x days in month x 60 minutes x number of customer sites] – network outage time (measured in minutes) (CT) (CT)

[24 hours x days in month x 60 minutes x number of customer sites] (CT)

- As noted in the above formula, all ports included in a customer's network are utilized in calculating *Network Availability*. (AT) (AT)
- The customer is responsible for (1) notifying the Company within 45 days after the end of the month when the service parameter falls below the committed level, and (2) requesting a service credit. (CT) (CT)
- Upon verification by the Company that the actual service performance for that parameter was less than the committed level, the customer will be provided a service credit equal to 10% of the monthly recurring charge for that service parameter for all affected ports. (CP) (CP)

OPT-E-MAN[SM] SERVICE

2. REGULATIONS (cont'd)

2.15 Service Level Agreements (SLAs) are offered with this service, and provide customers with end-to-end performance guarantees that are backed by service credits if minimum quality standards are not met by the Company.

Network Availability

- Network Availability of 99.95% per month, including the local loop, is guaranteed by the Company. This equates to less than 8 hours and 46 minutes of downtime per year, excluding maintenance windows and other appropriate exclusions (see *Exclusions* following). Network Availability is calculated as the percentage of time that the OPT-E-MAN network is capable of accepting and delivering customer data to the total time in the measurement period. The calculation for Network Availability for a given month is as follows:

  $$\text{Network Availability} = \frac{[24 \text{ hours} \times \text{days in month} \times \text{number of customer sites}] - \text{network outage time}}{[24 \text{ hours} \times \text{days in month} \times \text{number of customer sites}]}$$

- The customer is responsible for notifying the Company when the service parameter within the calendar month falls below the committed level.
- The customer must request a service credit within 45 days after the end of the month when the failure occurred.
- Upon verification by the Company that the actual service performance for that parameter was less than the committed level, the Company has one month to correct the problem.
- If after one month, the service performance for that parameter is still less than the committed level, the customer will be provided a service credit equal to 10% of the monthly recurring charge for that service parameter for all affected ports.

(CT) OPT-E-MAN® SERVICE

2. REGULATIONS (cont'd)

2.16 Grade of Service SLAs are provided for OPT-E-MAN Service. If the Company fails to meet service parameters defined for each Grade of Service, service credits will be offered to the customer given certain conditions are met:

- The customer is responsible for (1) notifying the Company within 45 days after the end of the month when the service parameter falls below (or above) the committed level, and (2) requesting a service credit.
- Upon notification by the customer that the actual service performance for that parameter was less than the committed level, the Company has 30 days to correct the problem.
- If after 30 days, the service performance for that parameter is still less than the committed level, the customer will be provided a service credit equal to 25% of the monthly recurring charge for that service parameter for all affected ports for the month in which the service parameters fall below (or above) the committed level.
- Packet Delivery Rate, Latency and Jitter calculations will be measured only when the OPT-E-MAN network is available.

2.17 Exclusions (Service Level Agreements and Grade of Service credits)

The Company will be excluded from providing Service Level Agreements credits and Grade of Service credits should any of the following conditions occur:

- Force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.
- (CT) All SLAs are offered across the Company's network. The failures of any components beyond the local facility including the Network Interface (NI), the CSU/DSU/Channel band/Extended Demarcation are excluded from the SLA calculation.
- Data loss during the Company's scheduled maintenance window.
- Data exceeding subscribed Usage.
- Failures attributed to facilities or equipment provided by customer or its contractors, equipment vendors, another local exchange carrier or inter-exchange carrier.
- Any type of Customer Network Management functionality is not included in SLAs.

OPT-E-MAN[SM] SERVICE

2. REGULATIONS (cont'd)

(CT) 2.16 Grade of Service SLAs are provided for OPT-E-MAN Service. If the Company fails to meet service parameters defined for each Grade of Service, service credits will be offered to the customer given certain conditions are met:

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- The customer is responsible for (1) notifying the Company within 45 days after the end of the month when the service parameter falls below (or above) the committed level, and (2) requesting a service credit.
- Upon notification by the customer that the actual service performance for that parameter was less than the committed level, the Company has 30 days to correct the problem.
- If after 30 days, the service performance for that parameter is still less than the committed level, the customer will be provided a service credit equal to 25% of the monthly recurring charge for that service parameter for all affected ports for the month in which the service parameters fall below (or above) the committed level.

(AT)
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(AT)

- Packet Delivery Rate, Latency and Jitter calculations will be measured only when the OPT-E-MAN network is available.

2.17 Exclusions (Service Level Agreements and Grade of Service credits)

The Company will be excluded from providing Service Level Agreements credits and Grade of Service credits should any of the following conditions occur:

- Force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.

(CT)

- All SLAs are offered across SBC's network. The failures of any components beyond the local facility including the Network Interface (NI), the CSU/DSU/Channel band/Extended Demarcation are excluded from the SLA calculation.
- Data loss during the Company's scheduled maintenance window.
- Data exceeding subscribed Usage.
- Failures attributed to facilities or equipment provided by customer or its contractors, equipment vendors, another local exchange carrier or inter-exchange carrier.
- Any type of Customer Network Management functionality is not included in SLAs.

OPT-E-MAN[SM] SERVICE

2. REGULATIONS (cont'd)

2.16 Grade of Service guarantees are provided for OPT-E-MAN Service. If the Company fails to meet service parameters defined for each Grade of Service, service credits will be offered to the customer given certain conditions are met:

- The customer is responsible for notifying the Company when the service parameters within the calendar month fall below (or above) the committed level.
- The customer must request a service credit within 45 days after the end of the month when the failure occurred.
- Upon verification by the Company that the actual service performance for that parameter was less than the committed level, the Company has one month to correct the problem.
- If after one month, the service performance for that parameter is still less than the committed level, the customer will be provided a service credit equal to 25% of the monthly recurring charge for that service parameter for all affected ports.

2.17 Exclusions (Service Level Agreements and Grade of Service credits)

The Company will be excluded from providing Service Level Agreements credits and Grade of Service credits should any of the following conditions occur:

- Force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.
- All SLAs are guaranteed across SBC's network. The failures of any components beyond the local facility including the Network Interface (NI), the CSU/DSU/Channel band/Extended Demarcation are excluded from the SLA calculation.
- Data loss during the Company's scheduled maintenance window.
- Data exceeding subscribed Usage.
- Failures attributed to facilities or equipment provided by customer or its contractors, equipment vendors, another local exchange carrier or inter-exchange carrier.
- Any type of Customer Network Management functionality is not included in SLAs.

2. REGULATIONS (cont'd)

2.18 For Basic and Basic Plus point-to-point and point-to-multipoint service, the Company will use controls to limit the amount of broadcast traffic to protect the OPT-E-MAN network against broadcast storms. The maximum throughput of broadcast traffic will be set at 10 Mbps per customer port. Packets dropped by traffic controls will be excluded from SLA calculations. The Company recommends that customers enable controls for broadcast traffic within the customer network(s).[/1/] (AT) (AT)

2.19 For Basic Plus multipoint-to-multipoint service, the Company will use controls to limit the amount of multicast and broadcast traffic to protect the OPT-E-MAN network against traffic storms. The maximum throughput of multicast traffic will be set at 1 Mbps per customer port, while the maximum throughput of broadcast traffic will be set at 200 packets per second per port. Packets dropped by traffic controls will be excluded from SLA calculations. The Company recommends that customers enable controls for multicast, broadcast and unknown unicast traffic within the customer network(s). (FC)

2.20 Data exiting the network through the customer ports are excluded from SLA calculations to the extent that it exceeds the CIR for those ports. (FC)

2.21 The responsibility of the Company shall be limited to furnishing the OPT-E-MAN network. Subject to this responsibility, the Company shall not be responsible for the through transmission of signals generated by CPE or for the quality of, or defects in, such transmission or the rejection of signal by CPE. The Company shall not be responsible for installation, operation, maintenance or adapting OPT-E-MAN to the technological requirements of specific CPE. In addition, the Company shall not be responsible to the customer if changes in any of the equipment, operations or procedures of the Company used in the provisioning of OPT-E-MAN render any facilities provided by the customer obsolete; or require modification or alteration of such equipment or system; or otherwise affect its use or performance, provided the Company has met all applicable information disclosure requirements otherwise required by law. (FC)

2.22 Customers will be permitted to move from a 10/100 Base T to a Gigabit Ethernet interface option (staying within the Basic or Basic Plus Connection, or moving from the Basic to the Basic Plus Connection), however the Nonrecurring Charge associated with the new Gigabit Ethernet Connection will apply. However, should a customer simply wish to move from Basic to Basic Plus (without any change to the interface option; for example, retaining the 10/100 Base T interface), only the Service Order Change Charge will apply. See ***RATES AND CHARGES*** following. (FC)

2.23 The aggregate assigned Committed Information Rate (CIR) across all Ethernet Virtual Connections (EVCs) between any two customer connections cannot exceed 600 Mbps per Basic or Basic Plus connection.[/2/] (FC) (FC)

/1/ This provisioning requirement will only apply to new service installed after May 1, 2007. (AT)
/2/ This provisioning requirement will only apply to new service installed after November 29, 2006. (FC)

OPT-E-MAN[sm] SERVICE

2. Regulations (cont'd)

2.18 For Basic Plus multipoint-to-multipoint service, the Company will use controls to limit the amount of multicast and broadcast traffic to protect the OPT-E-MAN network against traffic storms. The maximum throughput of multicast traffic will be set at 1 Mbps per customer port, while the maximum throughput of broadcast traffic will be set at 200 packets per second per port. Packets dropped by traffic controls will be excluded from SLA calculations. The Company recommends that customers enable controls for multicast, broadcast and unknown unicast traffic within the customer network(s).

2.19 Data exiting the network through the customer ports are excluded from SLA calculations to the extent that it exceeds the CIR for those ports.

2.20 The responsibility of the Company shall be limited to furnishing the OPT-E-MAN network. Subject to this responsibility, the Company shall not be responsible for the through transmission of signals generated by CPE or for the quality of, or defects in, such transmission or the rejection of signal by CPE. The Company shall not be responsible for installation, operation, maintenance or adapting OPT-E-MAN to the technological requirements of specific CPE. In addition, the Company shall not be responsible to the customer if changes in any of the equipment, operations or procedures of the Company used in the provisioning of OPT-E-MAN render any facilities provided by the customer obsolete; or require modification or alteration of such equipment or system; or otherwise affect its use or performance, provided the Company has met all applicable information disclosure requirements otherwise required by law.

2.21 Customers will be permitted to move from a 10/100 Base T to a Gigabit Ethernet interface option (staying within the Basic or Basic Plus Connection, or moving from the Basic to the Basic Plus Connection), however the Nonrecurring Charge associated with the new Gigabit Ethernet Connection will apply. However, should a customer simply wish to move from Basic to Basic Plus (without any change to the interface option; for example, retaining the 10/100 Base T interface), only the Service Order Change Charge will apply. See ***RATES AND CHARGES*** following.

2.22 The aggregate assigned Committed Information Rate (CIR) across all Ethernet Virtual Connections (EVCs) between any two customer connections cannot exceed 600 Mbps per Basic or Basic Plus connection.[/1/] (AT) | (AT)

/1/ This provisioning requirement will only apply to new service installed after November 29, 2006. (AT)

(CT) OPT-E-MAN® SERVICE

2. REGULATIONS (cont'd)

2.18 For Basic Plus multipoint-to-multipoint service, the Company will use controls to limit the amount of multicast and broadcast traffic to protect the OPT-E-MAN network against traffic storms. The maximum throughput of multicast traffic will be set at 1 Mbps per customer port, while the maximum throughput of broadcast traffic will be set at 200 packets per second per port. Packets dropped by traffic controls will be excluded from SLA calculations. The Company recommends that customers enable controls for multicast, broadcast and unknown unicast traffic within the customer network(s).

2.19 Data exiting the network through the customer ports are excluded from SLA calculations to the extent that it exceeds the CIR for those ports.

2.20 The responsibility of the Company shall be limited to furnishing the OPT-E-MAN network. Subject to this responsibility, the Company shall not be responsible for the through transmission of signals generated by CPE or for the quality of, or defects in, such transmission or the rejection of signal by CPE. The Company shall not be responsible for installation, operation, maintenance or adapting OPT-E-MAN to the technological requirements of specific CPE. In addition, the Company shall not be responsible to the customer if changes in any of the equipment, operations or procedures of the Company used in the provisioning of OPT-E-MAN render any facilities provided by the customer obsolete; or require modification or alteration of such equipment or system; or otherwise affect its use or performance, provided the Company has met all applicable information disclosure requirements otherwise required by law.

2.21 Customers will be permitted to move from a 10/100 Base T to a Gigabit Ethernet interface option (staying within the Basic or Basic Plus Connection, or moving from the Basic to the Basic Plus Connection), however the Nonrecurring Charge associated with the new Gigabit Ethernet Connection will apply. However, should a customer simply wish to move from Basic to Basic Plus (without any change to the interface option; for example, retaining the 10/100 Base T interface), only the Service Order Change Charge will apply. See ***RATES AND CHARGES*** following.

OPT-E-MAN[SM] SERVICE

2. REGULATIONS (cont'd)

(CT) 2.18 For Basic Plus multipoint-to-multipoint service, the Company will use controls to limit the amount of multicast and broadcast traffic to protect the OPT-E-MAN network against traffic storms. The maximum throughput of multicast traffic will be set at 1 Mbps per customer port, while the maximum throughput of broadcast traffic will be set at 200 packets per second per port. Packets dropped by traffic controls will be excluded from SLA calculations. The Company recommends that customers enable controls for multicast, broadcast and unknown unicast traffic within the customer network(s).

2.19 Data exiting the network through the customer ports are excluded from SLA calculations to the extent that it exceeds the CIR for those ports.

2.20 The responsibility of the Company shall be limited to furnishing the OPT-E-MAN network. Subject to this responsibility, the Company shall not be responsible for the through transmission of signals generated by CPE or for the quality of, or defects in, such transmission or the rejection of signal by CPE. The Company shall not be responsible for installation, operation, maintenance or adapting OPT-E-MAN to the technological requirements of specific CPE. In addition, the Company shall not be responsible to the customer if changes in any of the equipment, operations or procedures of the Company used in the provisioning of OPT-E-MAN render any facilities provided by the customer obsolete; or require modification or alteration of such equipment or system; or otherwise affect its use or performance, provided the Company has met all applicable information disclosure requirements otherwise required by law.

2.21 Customers will be permitted to move from a 10/100 Base T to a Gigabit Ethernet interface option (staying within the Basic or Basic Plus Connection, or moving from the Basic to the Basic Plus Connection), however the Nonrecurring Charge associated with the new Gigabit Ethernet Connection will apply. However, should a customer simply wish to move from Basic to Basic Plus (without any change to the interface option; for example, retaining the 10/100 Base T interface), only the Service Order Change Charge will apply. See ***RATES AND CHARGES*** following.

OPT-E-MAN[SM] SERVICE

2. REGULATIONS (cont'd)

2.18 The Company will use controls to limit the amount of multicast and broadcast traffic to protect the OPT-E-MAN network against traffic storms. The maximum throughput of multicast traffic will be set at 1 Mbps per customer port, while the maximum throughput of broadcast traffic will be set at 200 packets per second per port. Packets dropped by traffic controls will be excluded from SLA calculations. The Company recommends that customers enable controls for multicast, broadcast and unknown unicast traffic within the customer network(s).

2.19 Data exiting the network through the customer ports are excluded from SLA calculations to the extent that it exceeds the CIR for those ports.

2.20 The responsibility of the Company shall be limited to furnishing the OPT-E-MAN network. Subject to this responsibility, the Company shall not be responsible for the through transmission of signals generated by CPE or for the quality of, or defects in, such transmission or the rejection of signal by CPE. The Company shall not be responsible for installation, operation, maintenance or adapting OPT-E-MAN to the technological requirements of specific CPE. In addition, the Company shall not be responsible to the customer if changes in any of the equipment, operations or procedures of the Company used in the provisioning of OPT-E-MAN render any facilities provided by the customer obsolete; or require modification or alteration of such equipment or system; or otherwise affect its use or performance, provided the Company has met all applicable information disclosure requirements otherwise required by law.

(AT) 2.21 Customers will be permitted to move from a 10/100 Base T to a Gigabit Ethernet interface option (staying within the Basic or Basic Plus Connection, or moving from the Basic to the Basic Plus Connection), however the Nonrecurring Charge associated with the new Gigabit Ethernet Connection will apply. However, should a customer simply wish to move from Basic to Basic Plus (without any change to the interface option; for example, retaining the 10/100 Base T interface), only the Service Order Change Charge will apply. See ***RATES AND CHARGES*** following. (AT)

OPT-E-MAN[SM] SERVICE

2. REGULATIONS (cont'd)

2.18 The Company will use controls to limit the amount of multicast and broadcast traffic to protect the OPT-E-MAN network against traffic storms. The maximum throughput of multicast traffic will be set at 1 Mbps per customer port, while the maximum throughput of broadcast traffic will be set at 200 packets per second per port. Packets dropped by traffic controls will be excluded from SLA calculations. The Company recommends that customers enable controls for multicast, broadcast and unknown unicast traffic within the customer network(s).

2.19 Data exiting the network through the customer ports are excluded from SLA calculations to the extent that it exceeds the CIR for those ports.

2.20 The responsibility of the Company shall be limited to furnishing the OPT-E-MAN network. Subject to this responsibility, the Company shall not be responsible for the through transmission of signals generated by CPE or for the quality of, or defects in, such transmission or the rejection of signal by CPE. The Company shall not be responsible for installation, operation, maintenance or adapting OPT-E-MAN to the technological requirements of specific CPE. In addition, the Company shall not be responsible to the customer if changes in any of the equipment, operations or procedures of the Company used in the provisioning of OPT-E-MAN render any facilities provided by the customer obsolete; or require modification or alteration of such equipment or system; or otherwise affect its use or performance, provided the Company has met all applicable information disclosure requirements otherwise required by law.

(CT)

OPT-E-MAN® SERVICE

3. DEFINITIONS

3.1 Jitter

Jitter is the delay that occurs between 2 packets or Ethernet frames that are traversing the network. Jitter is calculated as the delay variance of the packets transported across the network or the delta of delay between two consecutive packets. It is measured between two endpoints, and will consist of measuring the time between a set of packets. Jitter is measured by averaging sample measurements taken during a 30 day period between network terminating equipment to which the customer ports are attached when the OPT-E-MAN network is available.

3.2 Latency

Latency is the amount of time necessary for a typical frame to traverse the network. Latency is calculated as the measurement of time taken for a customer frame to go from one end of the network (origination point) to the other end (termination point). The measurement will consist of measuring the time it takes to "ping" or travel from the origination to termination ports for the connection in question. Latency is measured by averaging sample measurements taken during a 30 day period between network terminating equipment to which the customer ports are attached when the OPT-E-MAN network is available.

3.3 Media Access Control (MAC) Addresses

Denotes a data link layer protocol used for Layer 2 connectivity.

3.4 Packet Delivery Rate (PDR)

Packet Delivery Rate (PDR) is a measurement of the actual amount of useful and non-redundant information that is transmitted or processed from end-to-end across the network. It is a function of bandwidth, error performance, congestion and other factors. PDR is expressed as a percentage of Ethernet frames offered to the network that successfully traverse the network, end-to-end, within the CIR, and within a 30 day period. PDR is calculated as the total number of effective Ethernet frames, per port, that successfully traverse the network divided by the total number of effective Ethernet frames, per port, offered to the network within a 30 day period. Those frames that violate the maximum range will be excluded from the calculation. PDR is measured by averaging sample measurements taken during a 30 day period from network terminating equipment to network terminating equipment to which the customer ports are attached when the OPT-E-MAN network is available.

OPT-E-MAN[SM] SERVICE

3. DEFINITIONS

3.1 Jitter

Jitter is the delay that occurs between 2 packets or Ethernet frames that are traversing the network. Jitter is calculated as the delay variance of the packets transported across the network or the delta of delay between two consecutive packets. It is measured between two endpoints,
(RT) and will consist of measuring the time between a set of packets. Jitter is measured by averaging
(CT) sample measurements taken during a 30 day period between network terminating equipment to
(AT) which the customer ports are attached when the OPT-E-MAN network is available.

3.2 Latency

Latency is the amount of time necessary for a typical frame to traverse the network. Latency is calculated as the measurement of time taken for a customer frame to go from one end of the
(RT) network (origination point) to the other end (termination point). The measurement will consist of measuring the time it takes to "ping" or travel from the origination to termination ports for the connection in question. Latency is measured by averaging sample measurements taken
(CT) during a 30 day period between network terminating equipment to which the customer ports are
(AT) attached when the OPT-E-MAN network is available.

3.3 Media Access Control (MAC) Addresses

Denotes a data link layer protocol used for Layer 2 connectivity.

3.4 Packet Delivery Rate (PDR)

Packet Delivery Rate (PDR) is a measurement of the actual amount of useful and non-redundant information that is transmitted or processed from end-to-end across the network. It is a function of bandwidth, error performance, congestion and other factors. PDR is expressed as a percentage of Ethernet frames offered to the network that successfully traverse the network,
(AT) end-to-end, within the CIR, and within a 30 day period. PDR is calculated as the total number of effective Ethernet frames, per port, that successfully traverse the network divided by the total
(CT) number of effective Ethernet frames, per port, offered to the network within a 30 day period. Those frames that violate the maximum range will be excluded from the calculation. PDR is
(CT) measured by averaging sample measurements taken during a 30 day period from network terminating equipment to network terminating equipment to which the customer ports are
(AT) attached when the OPT-E-MAN network is available.

OPT-E-MAN℠ SERVICE

3. DEFINITIONS

3.1 Jitter

Jitter is the delay that occurs between 2 packets or Ethernet frames that are traversing the network. Jitter is calculated as the delay variance of the packets transported across the network or the delta of delay between two consecutive packets. It is measured between two endpoints, and will be taken during the network busy hour and will consist of measuring the time between a set of packets. Jitter is measured by averaging sample measurements taken during a calendar month between network terminating equipment to which the customer ports are attached.

3.2 Latency

Latency is the amount of time necessary for a typical frame to traverse the network. Latency is calculated as the measurement of time taken for a customer frame to go from one end of the network (origination point) to the other end (termination point). The measurement will be taken during the network busy hour and will consist of measuring the time it takes to "ping" or travel from the origination to termination ports for the connection in question. Latency is measured by averaging sample measurements taken during a calendar month between network terminating equipment to which the customer ports are attached.

3.3 Media Access Control (MAC) Addresses

Denotes a data link layer protocol used for Layer 2 connectivity.

3.4 Packet Delivery Rate (PDR)

Packet Delivery Rate (PDR) is a measurement of the actual amount of useful and non-redundant information that is transmitted or processed from end-to-end across the network. It is a function of bandwidth, error performance, congestion and other factors. PDR is expressed as a percentage of Ethernet frames offered to the network that successfully traverse the network, end-to-end, within a calendar month. PDR is calculated as the total number of effective Ethernet frames, per port, that successfully traverse the network divided by the total number of effective Ethernet frames, per port, offered to the network within a calendar month. Those frames that violate the maximum range will be excluded from the calculation. PDR is measured by averaging sample measurements taken during a calendar month from network terminating equipment to network terminating equipment to which the customer ports are attached.

(CT) OPT-E-MAN® SERVICE

4. TECHNICAL SPECIFICATIONS PACKAGES

The customer interface to OPT-E-MAN Service is as specified in:

Subject	Technical Reference
Ethernet Standards	SBC TP-76412-000
Network Equipment Design Requirements	SBC TP-76200MP

These publications may be obtained from:

(CT) APEx Support Team
(CT) 734-523-7348

5. SERVICE COMPONENTS

There are two standard (or required) rate elements which apply for OPT-E-MAN Service: Connection and Committed Information Rate (CIR).

5.1 Connection

Provides for the physical connection between the customer's premise and the serving wire center. This is comprised of a transport component, interface component and a port connection component. Several interface protocols are available: 10/100 Base T and Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX).

5.2 Committed Information Rate (CIR)

CIR provides a committed level of transmission (or bandwidth) to the Connection. The customer can select a CIR from 5 Mbps to 1 Gbps per connection. The CIR is shared among one or more Ethernet Virtual Connections (EVCs), which provide a logical point-to-point connection between two customer locations.

OPT-E-MAN[SM] SERVICE

4. TECHNICAL SPECIFICATIONS PACKAGES

The customer interface to OPT-E-MAN Service is as specified in:

Subject	Technical Reference
Ethernet Standards	SBC TP-76412-000
Network Equipment Design Requirements	SBC TP-76200MP

These publications may be obtained from:

SBC Help Desk and Document Center
517-788-6872

5. SERVICE COMPONENTS

There are two standard (or required) rate elements which apply for OPT-E-MAN Service:
(CT) Connection and Committed Information Rate (CIR).

5.1 Connection

Provides for the physical connection between the customer's premise and the serving wire center. This is comprised of a transport component, interface component and a port connection component. Several interface protocols are available: 10/100 Base T and Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX).

(CT) 5.2 Committed Information Rate (CIR)

(CT) CIR provides a committed level of transmission (or bandwidth) to the Connection. The customer
(AT) can select a CIR from 5 Mbps to 1 Gbps per connection. The CIR is shared among one or more
(RT) Ethernet Virtual Connections (EVCs), which provide a logical point-to-point connection between
(AT) two customer locations.

OPT-E-MAN[SM] SERVICE

4. TECHNICAL SPECIFICATIONS PACKAGES

The customer interface to OPT-E-MAN Service is as specified in:

Subject	Technical Reference
Ethernet Standards	SBC TP-76412-000
Network Equipment Design Requirements	SBC TP-76200MP

These publications may be obtained from:

SBC Help Desk and Document Center
517-788-6872

5. SERVICE COMPONENTS

There are two standard (or required) rate elements which apply for OPT-E-MAN Service: Connection and Bandwidth Usage.

5.1 Connection

Provides for the physical connection between the customer's premise and the serving wire center. This is comprised of a transport component, interface component and a port connection component. Several interface protocols are available: 10/100 BaseT and Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX).

5.2 Bandwidth Usage

Bandwidth Usage is inclusive of the Committed Information Rate (CIR) and 1 Ethernet Virtual Connection (EVC). CIR provides a statistically guaranteed level of transmission (or guaranteed bandwidth) to the Connection. The customer can select a CIR from 10 Mbps to 1 Gbps per connection. The EVC provides a logical point-to-point connection between two customer locations.

5. SERVICE COMPONENTS (cont'd)

In addition, there are three optional rate elements which may apply to OPT-E-MAN, depending on the customer's configuration: Repeater, Ethernet Virtual Connections (EVC) and Additional MAC Addresses.

5.3 Repeater

For those customers who are located outside normal transmission parameters, or who are served by a Serving Wire Center that is not equipped for OPTE-MAN Service, service can be provided using a repeater. An engineering study will be completed to ensure transmission parameters can be met using a repeater, and the Company will determine when Repeaters are necessary. Additional charges will apply. Provisioning of OPT-E-MAN Service is subject to the availability and operational limitations of the equipment and associated facilities.

5.4 Ethernet Virtual Connections (EVC)

An Ethernet Virtual Connection is a logical point-to-point connection between two customer locations, and goes from the customer demarcation point at one location through the OPT-E-MAN network to terminate at the demarcation point at the second customer location. When multiple EVCs are provisioned, the customer must designate the portion of the CIR assigned to each EVC. For point-to-point and point-to-multipoint connections, EVCs can be set in 1 Mbps increments from 5 Mbps to 600 Mbps/1/. For multipoint-to-multipoint connections, EVCs can be set in 1 Mbps increments from 5 Mbps to 1 Gbps. If a customer purchases the Silver Grade of Service for CIR, the initial EVC will be prioritized as Silver. Additional EVCs can be prioritized as either Silver or Bronze. However, if a customer purchases the Bronze Grade of Service for CIR, additional EVCs cannot be prioritized as Silver, but only as Bronze.

5.5 Additional MAC Addresses

If a customer connects to the OPT-E-MAN network using a bridge or switch for Layer 2 connectivity, only 50 MAC addresses can be used per Layer 2 device, per port. Any additional addresses will be assessed an additional charge, with a limit of 100 MAC addresses total per port.

/1/ This provisioning requirement will only apply to new service installed after November 29, 2006.

OPT-E-MAN[sm] SERVICE

5. Service Components (cont'd)

In addition, there are three optional rate elements which may apply to OPT-E-MAN, depending on the customer's configuration: Repeater, Ethernet Virtual Connections (EVC) and Additional MAC Addresses.

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For those customers who are located outside normal transmission parameters, or who are served by a Serving Wire Center that is not equipped for OPTE-MAN Service, service can be provided using a repeater. An engineering study will be completed to ensure transmission parameters can be met using a repeater, and the Company will determine when Repeaters are necessary. Additional charges will apply. Provisioning of OPT-E-MAN Service is subject to the availability and operational limitations of the equipment and associated facilities.

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/1/ This provisioning requirement will only apply to new service installed after November 29, 2006. (AT)

(CT) OPT-E-MAN® SERVICE

5. SERVICE COMPONENTS (cont'd)

In addition, there are three optional rate elements which may apply to OPT-E-MAN, depending on the customer's configuration: Repeater, Ethernet Virtual Connections (EVC) and Additional MAC Addresses.

5.3 Repeater

For those customers who are located outside normal transmission parameters, or who are served by a Serving Wire Center that is not equipped for OPTE-MAN Service, service can be provided using a repeater. An engineering study will be completed to ensure transmission parameters can be met using a repeater, and the Company will determine when Repeaters are necessary. Additional charges will apply. Provisioning of OPT-E-MAN Service is subject to the availability and operational limitations of the equipment and associated facilities.

5.4 Ethernet Virtual Connections (EVC)

An Ethernet Virtual Connection is a logical point-to-point connection between two customer locations, and goes from the customer demarcation point at one location through the OPT-E-MAN network to terminate at the demarcation point at the second customer location. When multiple EVCs are provisioned, the customer must designate the portion of the CIR assigned to each EVC. EVCs can be set in 1 Mbps increments from 5 Mbps to 1000 Mbps. If a customer purchases the Silver Grade of Service for CIR, the initial EVC will be prioritized as Silver. Additional EVCs can be prioritized as either Silver or Bronze. However, if a customer purchases the Bronze Grade of Service for CIR, additional EVCs cannot be prioritized as Silver, but only as Bronze.

5.5 Additional MAC Addresses

If a customer connects to the OPT-E-MAN network using a bridge or switch for Layer 2 connectivity, only 50 MAC addresses can be used per Layer 2 device, per port. Any additional addresses will be assessed an additional charge, with a limit of 100 MAC addresses total per port.

OPT-E-MAN[SM] SERVICE

5. SERVICE COMPONENTS (cont'd)

In addition, there are three optional rate elements which may apply to OPT-E-MAN, depending on the customer's configuration: Repeater, Ethernet Virtual Connections (EVC) and Additional MAC Addresses.

5.3 Repeater

For those customers who are located outside normal transmission parameters, or who are served by a Serving Wire Center that is not equipped for OPTE-MAN Service, service can be provided using a repeater. An engineering study will be completed to ensure transmission parameters can be met using a repeater, and the Company will determine when Repeaters are necessary. Additional charges will apply. Provisioning of OPT-E-MAN Service is subject to the availability and operational limitations of the equipment and associated facilities.

5.4 Ethernet Virtual Connections (EVC)

An Ethernet Virtual Connection is a logical point-to-point connection between two customer locations, and goes from the customer demarcation point at one location through the OPT-E-MAN network to terminate at the demarcation point at the second customer location. When multiple EVCs are provisioned, the customer must designate the portion of the CIR assigned to each EVC. EVCs can be set in 1 Mbps increments from 5 Mbps to 1000 Mbps. If a customer purchases the Silver Grade of Service for CIR, the initial EVC will be prioritized as Silver. Additional EVCs can be prioritized as either Silver or Bronze. However, if a customer purchases the Bronze Grade of Service for CIR, additional EVCs cannot be prioritized as Silver, but only as Bronze.

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

5.5 Additional MAC Addresses

If a customer connects to the OPT-E-MAN network using a bridge or switch for Layer 2 connectivity, only 50 MAC addresses can be used per Layer 2 device, per port. Any additional addresses will be assessed an additional charge, with a limit of 100 MAC addresses total per port.

OPT-E-MAN℠ SERVICE

5. SERVICE COMPONENTS (cont'd)

In addition, there are three optional rate elements which may apply to OPT-E-MAN, depending on the customer's configuration: Repeater, Ethernet Virtual Connections (EVC) and Additional MAC Addresses.

5.3 Repeater

For those customers who are located outside normal transmission parameters, or who are served by a Serving Wire Center that is not equipped for OPT-E-MAN Service, service can be provided using a repeater. An engineering study will be completed to ensure transmission parameters can be met using a repeater, and the Company will determine when Repeaters are necessary. Additional charges will apply. Provisioning of OPT-E-MAN Service is subject to the availability and operational limitations of the equipment and associated facilities.

5.4 Ethernet Virtual Connections (EVC)

An Ethernet Virtual Connection is a logical point-to-point connection between two customer locations, and goes from the customer demarcation point at one location through the OPT-E-MAN network to terminate at the demarcation point at the second customer location. The first EVC is included with the Bandwidth Usage selected. Additional EVCs may be ordered to establish additional virtual connections over the same connection. When additional EVCs are ordered, the customer must designate the portion of the Bandwidth Usage assigned to each EVC. EVCs can be set in 1 Mbps increments from 5 Mbps to 1000 Mbps. Additional EVC rate elements are assessed per EVC in increments of 5-100 Mbps, 101-500 Mbps and 501-1000 Mbps. If a customer purchases the Silver Grade of Service for Bandwidth Usage, the initial EVC will be prioritized as Silver. Additional EVCs can be prioritized as either Silver or Bronze. However, if a customer purchases the Bronze Grade of Service for Bandwidth Usage, additional EVCs cannot be prioritized as Silver, but only as Bronze.

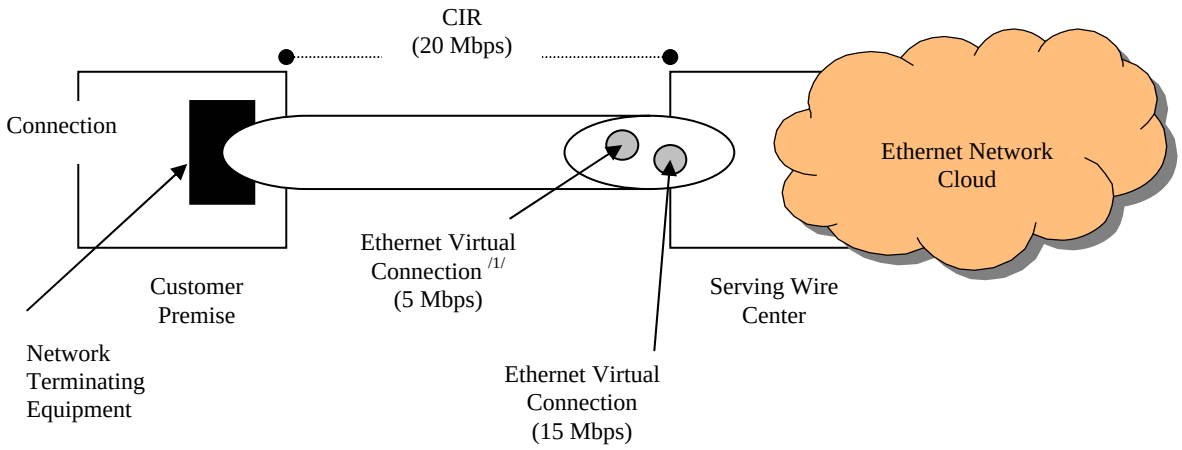
5.5 Additional MAC Addresses

If a customer connects to the OPT-E-MAN network using a bridge or switch for Layer 2 connectivity, only 50 MAC addresses can be used per Layer 2 device, per port. Any additional addresses will be assessed an additional charge, with a limit of 100 MAC addresses total per port.

(CT) OPT-E-MAN® SERVICE

6. SERVICE CONFIGURATIONS

The following diagram describes a standard service configuration:



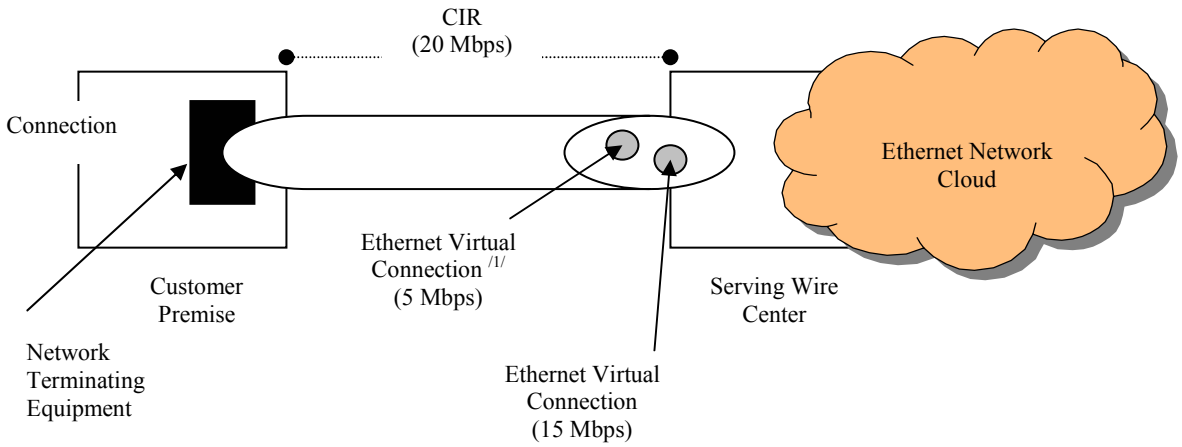
/1/ Ethernet Virtual Connections are used to establish a path for certain traffic between two customer locations, and do not have a charge associated with them. Each EVC must have a portion of the Committed Information Rate (CIR) service element assigned to it.

OPT-E-MAN[SM] SERVICE

6. SERVICE CONFIGURATIONS

The following diagram describes a standard service configuration:

(CT)



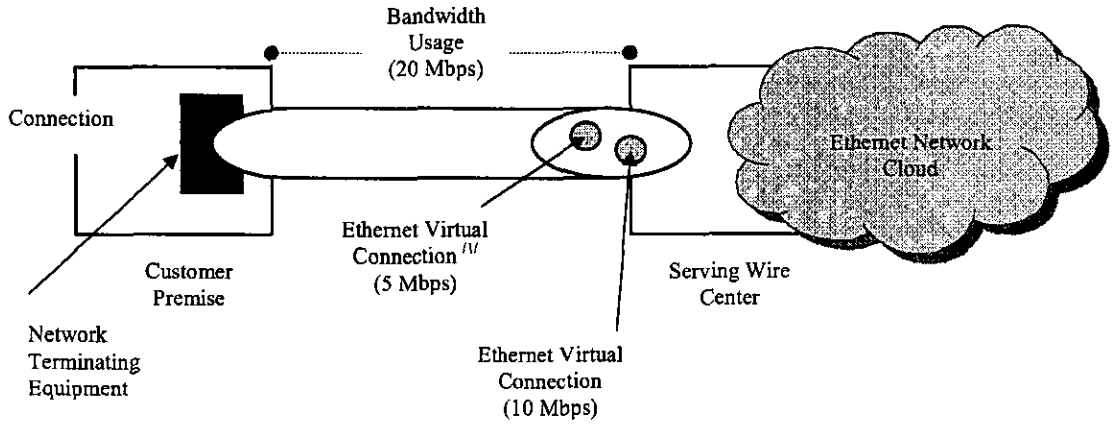
(CT)

(CP) /1/ Ethernet Virtual Connections are used to establish a path for certain traffic between two customer locations, and do not have a charge associated with them. Each EVC must have a portion of the
(CP) Committed Information Rate (CIR) service element assigned to it.

OPT-E-MAN[SM] SERVICE

6. SERVICE CONFIGURATIONS

The following diagram describes a standard service configuration:



/1/ One Ethernet Virtual Connection (EVC) is included in the Bandwidth Usage element ordered by the customer.

(CT)

OPT-E-MAN® SERVICE

7. RATES AND CHARGES

There are two types of rates and charges for OPT-E-MAN Service: Nonrecurring Charges and Recurring Charges.

7.1 Nonrecurring Charges are one-time charges that apply for specific work activity related to the provisioning of OPT-E-MAN Service.

7.2 Recurring Charges are flat recurring rates that apply each month or fraction thereof that the service is provided. Recurring rates may be applied only over a 12, 24, 36, or 60 month period under the terms and conditions of the Term Pricing Plan (TPP), described in 8. following. Upon completion of a TPP, a customer's service will automatically convert to the Monthly Extension rates unless the customer requests a new TPP. No customer shall purchase OPT-E-MAN Service on a month-to-month basis prior to the completion of a TPP.

		Monthly Payment *Term Payment Plans*				
Description	Non-recurring Charge[/1/]	12 Months	24 Months	36 Months	60 Months	Monthly Extension
Standard Charges						
Connection, each customer location						
Basic Service						
10/100 Base T	$1,925.00	$ 780.00	$ 750.00	$ 650.00	$575.00	$ 925.00
Gigabit Ethernet	2,100.00	1,200.00	1,150.00	1,000.00	850.00	1,400.00
Basic Plus Service						
10/100 Base T	1,925.00	780.00	750.00	650.00	575.00	925.00
Gigabit Ethernet	2,100.00	1,200.00	1,150.00	1,000.00	850.00	1,400.00

/1/ Nonrecurring charges will be waived for those customers selecting the 24, 36 or 60 month Term Payment Plan (TPP) period for new service.

OPT-E-MAN[SM] SERVICE

7. RATES AND CHARGES

There are two types of rates and charges for OPT-E-MAN Service: Nonrecurring Charges and Recurring Charges.

7.1 Nonrecurring Charges are one-time charges that apply for specific work activity related to the provisioning of OPT-E-MAN Service.

7.2 Recurring Charges are flat recurring rates that apply each month or fraction thereof that the service is provided. Recurring rates may be applied only over a 12, 24, 36, or 60 month period under the terms and conditions of the Term Pricing Plan (TPP), described in 8. following. Upon completion of a TPP, a customer's service will automatically convert to the Monthly Extension rates unless the customer requests a new TPP. No customer shall purchase OPT-E-MAN Service on a month-to-month basis prior to the completion of a TPP.

	Description	Non-recurring Charge[/1/]	Monthly Payment *Term Payment Plans* 12 Months	24 Months	36 Months	60 Months	Monthly Extension
	Standard Charges						
	Connection, each customer location						
	Basic Service						
	10/100 Base T	$1,925.00	$ 780.00	$ 750.00	$ 650.00	$575.00	$ 925.00
	Gigabit Ethernet	2,100.00	1,200.00	1,150.00	1,000.00	850.00	1,400.00
(AT)	*Basic Plus Service*						
(NR)	10/100 Base T	1,925.00	780.00	750.00	650.00	575.00	925.00
(NR)	Gigabit Ethernet	2,100.00	1,200.00	1,150.00	1,000.00	850.00	1,400.00

/1/ Nonrecurring charges will be waived for those customers selecting the 24, 36 or 60 month Term Payment Plan (TPP) period for new service.

OPT-E-MAN[SM] SERVICE

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There are two types of rates and charges for OPT-E-MAN Service: Nonrecurring Charges and Recurring Charges.

7.1 Nonrecurring Charges are one-time charges that apply for specific work activity related to the provisioning of OPT-E-MAN Service.

7.2 Recurring Charges are flat recurring rates that apply each month or fraction thereof that the service is provided. Recurring rates may be applied only over a 12, 24, 36, or 60 month period under the terms and conditions of the Term Pricing Plan (TPP), described in 8. following. Upon completion of a TPP, a customer's service will automatically convert to the Monthly Extension rates unless the customer requests a new TPP. No customer shall purchase OPT-E-MAN Service on a month-to-month basis prior to the completion of a TPP.

		Monthly Payment *Term Payment Plans*				
Description	Non-recurring Charge[/1/]	12 Months	24 Months	36 Months	60 Months	Monthly Extension
Standard Charges						
Connection, each customer location						
Basic Service						
10/100 Base T	$1,925.00	$ 780.00	$ 750.00	$ 650.00	$575.00	$ 925.00
Gigabit Ethernet	2,100.00	1,200.00	1,150.00	1,000.00	850.00	1,400.00

/1/ Nonrecurring charges will be waived for those customers selecting the 24, 36 or 60 month Term Payment Plan (TPP) period for new service.

OPT-E-MAN® SERVICE

7. RATES AND CHARGES (cont'd)

Description	Nonrecurring Charge[/1/]	Monthly Price Grade of Service Bronze	Silver	
Standard Charges (cont'd)				
Committed Information Rate (CIR) (Mbps) - per port				
5	$75.00	$ 450.00	$ 650.00	
10	75.00	650.00	850.00	
20	75.00	900.00	1,100.00	
50	75.00	1,025.00	1,225.00	
100	75.00	1,200.00	1,400.00	
150	75.00	1,375.00	1,775.00	(AT)
250	75.00	1,575.00	1,975.00	
500	75.00	1,900.00	2,300.00	
600	75.00	2,225.00	2,625.00	(AT)
1000	75.00	2,575.00	2,975.00	

/1/ Nonrecurring charges will be waived for those customers selecting the 24-, 36- or 60-month Term Payment Plan (TPP) period for new service.

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

(CT) OPT-E-MAN® SERVICE

7. RATES AND CHARGES (cont'd)

Description	Nonrecurring Charge[/1/]	Monthly Price Grade of Service Bronze	Monthly Price Grade of Service Silver
Standard Charges (cont'd)			
Committed Information Rate (CIR) (Mbps) - per port			
5	$75.00	$ 450.00	$ 650.00
10	75.00	650.00	850.00
20	75.00	900.00	1,100.00
50	75.00	1,025.00	1,225.00
100	75.00	1,200.00	1,400.00
250	75.00	1,575.00	1,975.00
500	75.00	1,900.00	2,300.00
1000	75.00	2,575.00	2,975.00

/1/ Nonrecurring charges will be waived for those customers selecting the 24-, 36- or 60-month Term Payment Plan (TPP) period for new service.

Issued: March 3, 2006 Effective: April 5, 2006

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

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

OPT-E-MAN[SM] SERVICE

7. RATES AND CHARGES (cont'd)

Description	Nonrecurring Charge[/1/]	Monthly Price Grade of Service Bronze	Silver
Standard Charges (cont'd)			
Committed Information Rate (CIR) (Mbps) - per port			
5	$75.00	$ 450.00 (CR)	$ 650.00 (CR)
10	75.00	650.00 (CR)	850.00 (CR)
20	75.00	900.00 (CR)	1,100.00 (CR)
50	75.00	1,025.00 (CR)	1,225.00 (CR)
100	75.00	1,200.00 (CR)	1,400.00 (CR)
250	75.00	1,575.00 (CR)	1,975.00 (CR)
500	75.00	1,900.00 (CR)	2,300.00 (CR)
1000	75.00	2,575.00 (CR)	2,975.00 (CR)

/1/ Nonrecurring charges will be waived for those customers selecting the 24-, 36- or 60-month Term Payment Plan (TPP) period for new service.

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

Digital Link Services Tariff
Section 25
2nd Revised Sheet 12
Replacing 1st Revised Sheet 12

OPT-E-MAN[SM] SERVICE

7. RATES AND CHARGES (cont'd)

Description	Nonrecurring Charge[/1/]	Monthly Price Grade of Service Bronze	Monthly Price Grade of Service Silver
Standard Charges (cont'd)			
Committed Information Rate (CIR) (Mbps) - per port			
5	$75.00	$1,000.00	$1,200.00
10	75.00	1,200.00	1,375.00
20	75.00	1,350.00	1,525.00
50	75.00	1,675.00	1,900.00
100	75.00	2,350.00	2,675.00
250	75.00	3,100.00	3,750.00
500	75.00	3,750.00	4,500.00
1000	75.00	4,500.00	5,400.00

(DR)

/1/ Nonrecurring charges will be waived for those customers selecting the 24, 36 or 60 month Term Payment Plan (TPP) period for new service.

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

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

Digital Link Services Tariff
Section 25
1st Revised Sheet 12
Replacing Original Sheet 12

OPT-E-MAN[SM] SERVICE

7. RATES AND CHARGES (cont'd)

		Description	Nonrecurring Charge/1/	Monthly Price Grade of Service Bronze	Monthly Price Grade of Service Silver
		Standard Charges (cont'd)			
(CT)		Committed Information Rate (CIR) (Mbps) - per port			
(NR)	5		$75.00	$1,000.00	$1,200.00
	10		75.00	1,200.00	1,375.00
	15		75.00	1,350.00	1,525.00
(CR)	20		75.00	1,350.00	1,525.00
	25		75.00	1,675.00	1,900.00
	30		75.00	1,800.00	2,050.00
	40		75.00	1,950.00	2,200.00
(CR)	50		75.00	1,675.00	1,900.00
	60		75.00	2,350.00	2,675.00
	80		75.00	2,650.00	3,000.00
(CR)	100		75.00	2,350.00	2,675.00
	125		75.00	2,900.00	3,275.00
	150		75.00	3,500.00	4,000.00
	175		75.00	4,200.00	4,750.00
	200		75.00	4,400.00	4,975.00
(CR)	250		75.00	3,100.00	3,750.00
	300		75.00	5,000.00	5,650.00
	400		75.00	5,300.00	6,000.00
(CR)	500		75.00	3,750.00	4,500.00
	600		75.00	5,900.00	6,675.00
	700		75.00	6,200.00	7,000.00
	800		75.00	6,500.00	7,350.00
	900		75.00	6,800.00	7,700.00
(CR)	1000		75.00	4,500.00	5,400.00

/1/ Nonrecurring charges will be waived for those customers selecting the 24, 36 or 60 month Term Payment Plan (TPP) period for new service.

Issued: February 15, 2005

Effective: March 18, 2005

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

OPT-E-MAN[SM] SERVICE

7. RATES AND CHARGES (cont'd)

Description	Nonrecurring Charge[/1/]	Monthly Price — Grade of Service: Bronze	Monthly Price — Grade of Service: Silver
Standard Charges (cont'd)			
Bandwidth Usage (Mbps)			
- per port			
10	$75.00	$1,200.00	$1,375.00
15	75.00	1,350.00	1,525.00
20	75.00	1,550.00	1,775.00
25	75.00	1,675.00	1,900.00
30	75.00	1,800.00	2,050.00
40	75.00	1,950.00	2,200.00
50	75.00	2,150.00	2,425.00
60	75.00	2,350.00	2,675.00
80	75.00	2,650.00	3,000.00
100	75.00	2,825.00	3,200.00
125	75.00	2,900.00	3,275.00
150	75.00	3,500.00	4,000.00
175	75.00	4,200.00	4,750.00
200	75.00	4,400.00	4,975.00
250	75.00	4,800.00	5,425.00
300	75.00	5,000.00	5,650.00
400	75.00	5,300.00	6,000.00
500	75.00	5,600.00	6,325.00
600	75.00	5,900.00	6,675.00
700	75.00	6,200.00	7,000.00
800	75.00	6,500.00	7,350.00
900	75.00	6,800.00	7,700.00
1000	75.00	7,100.00	8,025.00

/1/ Nonrecurring charges will be waived for those customers selecting the 24, 36 or 60 month Term Payment Plan (TPP) period for new service.

(CT) OPT-E-MAN® SERVICE

7. RATES AND CHARGES (cont'd)

Description	Nonrecurring Charge	Monthly Price — Grade of Service: Bronze	Monthly Price — Grade of Service: Silver
Optional Charges			
Ethernet Virtual Connection (EVC)/1/ - per connection	$0.00	$0.00	$0.00

Description	Non-Recurring Charge/2/	Monthly Payment — *Term Payment Plans*: 12 Months	24 Months	36 Months	60 Months	Monthly Extension
Repeater, each	$250.00	$400.00	$375.00	$325.00	$300.00	$475.00

/1/ Ethernet Virtual Connections (EVCs) are required for provisioning purposes only, and as such will not have a charge associated with them.

/2/ Nonrecurring charges will be waived for those customers selecting the 24, 36 or 60 month Term Payment Plan (TPP) period for new service.

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

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

Digital Link Services Tariff
Section 25
1st Revised Sheet 13
Replacing Original Sheet 13

OPT-E-MAN[SM] SERVICE

7. RATES AND CHARGES (cont'd)

(CP)	Description	Nonrecurring Charge	Monthly Price Grade of Service Bronze	Silver
	Optional Charges			
(CR)	Ethernet Virtual Connection (EVC)[/1/] - per connection	$0.00	$0.00	$0.00

(DR)
|
(DR)

Description	Non-Recurring Charge[/2/]	Monthly Payment *Term Payment Plans* 12 Months	24 Months	36 Months	60 Months	Monthly Extension
Repeater, each	$250.00	$400.00	$375.00	$325.00	$300.00	$475.00

(CP) /1/ Ethernet Virtual Connections (EVCs) are required for provisioning purposes only, and as such will
(RT) not have a charge associated with them.

/2/ Nonrecurring charges will be waived for those customers selecting the 24, 36 or 60 month Term Payment Plan (TPP) period for new service.

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Southwestern Bell Telephone, L.P., d/b/a SBC Missouri
St. Louis, Missouri

OPT-E-MAN[SM] SERVICE

7. RATES AND CHARGES (cont'd)

Description	Nonrecurring Charge[/2/]	Monthly Price Grade of Service: Bronze	Monthly Price Grade of Service: Silver
Optional Charges			
Ethernet Virtual Connection (EVC) [/1/]			
- per additional connection			
10 – 100 Mbps	$70.00	$ 50.00	$ 60.00
101 – 500 Mbps	70.00	100.00	115.00
501 – 1,000 Mbps	70.00	150.00	175.00

Description	Non-Recurring Charge[/2/]	Monthly Payment *Term Payment Plans* 12 Months	24 Months	36 Months	60 Months	Monthly Extension
Repeater, each	$250.00	$400.00	$375.00	$325.00	$300.00	$475.00

/1/ One EVC is included in the Bandwidth Usage selected by the customer. Charges shown above apply for additional EVCs required by the customer.

/2/ Nonrecurring charges will be waived for those customers selecting the 24, 36 or 60 month Term Payment Plan (TPP) period for new service.

(CT) OPT-E-MAN® SERVICE

7. RATES AND CHARGES (cont'd)

Description	Nonrecurring Charge	Monthly Price
Optional Charges		
Additional MAC Addresses/1/		
- 51-100 MAC addresses	$ 70.00	$ 5.00
Service Order Cancellation		
- per location	200.00	--
Expedite Order Charge		
- per location	300.00	--
Service Order Change Charge		
- applies to CIR Changes, EVC Changes and Configuration Changes, per location	75.00	--

/1/ Nonrecurring charges will be waived for those customers selecting the 24, 36 or 60 month Term Payment Plan (TPP) period for new service.

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

OPT-E-MAN[SM] SERVICE

7. RATES AND CHARGES (cont'd)

	Description	Nonrecurring Charge	Monthly Price
	Optional Charges		
	Additional MAC Addresses/1/		
	- 51-100 MAC addresses	$ 70.00	$ 5.00
	Service Order Cancellation		
	- per location	200.00	--
	Expedite Order Charge		
	- per location	300.00	--
	Service Order Change Charge		
(CT)	- applies to CIR Changes, EVC Changes and Configuration Changes, per location	75.00	--

/1/ Nonrecurring charges will be waived for those customers selecting the 24, 36 or 60 month Term Payment Plan (TPP) period for new service.

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

OPT-E-MAN[SM] SERVICE

7. RATES AND CHARGES (cont'd)

Description	Nonrecurring Charge	Monthly Price
Optional Charges		
Additional MAC Addresses /1/		
- 51-100 MAC addresses	$ 70.00	$ 5.00
Service Order Cancellation		
- per location	200.00	--
Expedite Order Charge		
- per location	300.00	--
Service Order Change Charge		
- applies to Bandwidth Usage Changes, EVC Changes and Configuration Changes, per location	75.00	--

/1/ Nonrecurring charges will be waived for those customers selecting the 24, 36 or 60 month Term Payment Plan (TPP) period for new service.

(CT)

OPT-E-MAN® SERVICE

8. TERM PRICING PLAN

8.1 The Term Pricing Plan provides the customer with rate stabilization and discounted tariff rates. The Term Pricing Plan provides for one, two, three or five year rate stabilization. Decreases in Term monthly recurring tariff rates will be passed on to customers who participate in a Term Pricing Plan.

8.2 Should the Company increase its rates during the Term Pricing Plan period, the customer would continue to pay the rates in effect at the time the customer elected to establish service under the Term Pricing Plan.

8.3 The customer may choose to terminate an existing TPP before the end of the 12-, 24-, 36-, or 60-month period and negotiate a new 12-, 24-, 36-, or 60- month TPP only when the new TPP period is longer than the remaining period currently in effect. The new TPP must be based upon the rates that are currently in effect and available to all customers.

8.4 The customer must provide the Company with a written notice of intent to renew a TPP no later than 90 days prior to its expiration. If the customer elects not to renew the TPP, or does not notify the Company of the customer's intent to renew the TPP, the service will automatically be billed under the tariffed monthly extension rates in effect at the time that TPP expires. Subsequently, customers under the tariffed monthly extension rates may convert their existing service to either a 12-, 24-, 36-, or 60- month TPP. Nonrecurring charges will be waived at the time of conversion.

8.5 Any special construction charges incurred for services billed under a TPP will be applicable as provided for in Section 1 of this tariff.

8.6 If the customer terminates the TPP agreement prior to the expiration of the 12-, 24-, 36-, or 60-month service term, the customer shall pay a termination charge. Payment of the termination charge does not release the customer from other previous amounts owed to the Company. In addition to any unpaid Special Construction or nonrecurring charges (excluding any waived charges), Termination Charges will be equal to:

- Fifty percent (50%) of all recurring charges for the remaining months of the customer's term

OPT-E-MAN[SM] SERVICE

8. TERM PRICING PLAN

8.1 The Term Pricing Plan provides the customer with rate stabilization and discounted tariff rates. The Term Pricing Plan provides for one, two, three or five year rate stabilization. Decreases in Term monthly recurring tariff rates will be passed on to customers who participate in a Term Pricing Plan. (CP)

8.2 Should the Company increase its rates during the Term Pricing Plan period, the customer would continue to pay the rates in effect at the time the customer elected to establish service under the Term Pricing Plan.

8.3 The customer may choose to terminate an existing TPP before the end of the 12-, 24-, 36-, or 60-month period and negotiate a new 12-, 24-, 36-, or 60- month TPP only when the new TPP period is longer than the remaining period currently in effect. The new TPP must be based upon the rates that are currently in effect and available to all customers.

8.4 The customer must provide the Company with a written notice of intent to renew a TPP no later than 90 days prior to its expiration. If the customer elects not to renew the TPP, or does not notify the Company of the customer's intent to renew the TPP, the service will automatically be billed under the tariffed monthly extension rates in effect at the time that TPP expires. Subsequently, customers under the tariffed monthly extension rates may convert their existing service to either a 12-, 24-, 36-, or 60- month TPP. Nonrecurring charges will be waived at the time of conversion.

8.5 Any special construction charges incurred for services billed under a TPP will be applicable as provided for in Section 1 of this tariff.

8.6 If the customer terminates the TPP agreement prior to the expiration of the 12-, 24-, 36-, or 60-month service term, the customer shall pay a termination charge. Payment of the termination charge does not release the customer from other previous amounts owed to the Company. In addition to any unpaid Special Construction or nonrecurring charges (excluding any waived charges), Termination Charges will be equal to:

- Fifty percent (50%) of all recurring charges for the remaining months of the customer's term

OPT-E-MAN℠ SERVICE

8. TERM PRICING PLAN

8.1 The Term Pricing Plan provides the customer with rate stabilization and discounted tariff rates. The Term Pricing Plan provides for one, two, three or five year rate stabilization. Decreases in Term monthly recurring tariff rates will be passed on to customers who participate in a Term Pricing Plan. The Company will notify customers participating in a Term Pricing Plan when Term monthly recurring rates are decreased.

8.2 Should the Company increase its rates during the Term Pricing Plan period, the customer would continue to pay the rates in effect at the time the customer elected to establish service under the Term Pricing Plan.

8.3 The customer may choose to terminate an existing TPP before the end of the 12, 24, 36, or 60 month period and negotiate a new 12, 24, 36, or 60 month TPP only when the new TPP period is longer than the remaining period currently in effect. The new TPP must be based upon the rates that are currently in effect and available to all customers.

8.4 The customer must provide the Company with a written notice of intent to renew a TPP no later than 90 days prior to its expiration. If the customer elects not to renew the TPP, or does not notify the Company of the customer's intent to renew the TPP, the service will automatically be billed under the tariffed monthly extension rates in effect at the time that TPP expires. Subsequently, customers under the tariffed monthly extension rates may convert their existing service to either a 12, 24, 36, or 60 month TPP. Nonrecurring charges will be waived at the time of conversion.

8.5 Any special construction charges incurred for services billed under a TPP will be applicable as provided for in Section 1 of this tariff.

8.6 If the customer terminates the TPP agreement prior to the expiration of the 12, 24, 36, or 60 month service term, the customer shall pay a termination charge. Payment of the termination charge does not release the customer from other previous amounts owed to the Company. In addition to any unpaid Special Construction or nonrecurring charges (excluding any waived charges), Termination Charges will be equal to:

- Fifty percent (50%) of all recurring charges for the remaining months of the customer's term

(CT) OPT-E-MAN® SERVICE

8. TERM PRICING PLAN (cont'd)

(AT) 8.7 Customers may upgrade their CIR to a higher speed without incurring Termination Charges. In addition, customers may upgrade their Grade of Service (i.e. Bronze to Silver) without incurring Termination Charges provided the upgrade does not include any reduction in the customer's existing CIR. (AT)

8.8 Customers may move their existing service to a new location without incurring Termination Charges provided all of the following conditions are met:

- The customer maintains the existing TPP at the new location or establishes a new TPP equal to or greater than the old location;
- During the TPP, a customer may move an OPT-E-MAN Service location to another premises in the same LATA and keep the TPP in force without assessment of Termination Charges, provided no lapse in billing occurs;
- The customer's request for disconnect at the existing location and the request for service at the new location are received at the same time, and the customer's disconnect order for the existing service references the new connect order for the new service;
- Moves of one location to a premise in a different serving office may result in a change in the monthly charges. Nonrecurring charges as appropriate are applicable.
- If the customer moves more than one location of the service concurrently, the customer will be liable for Termination Charges, as this is considered a complete disconnect of the service.

OPT-E-MAN[SM] SERVICE

8. TERM PRICING PLAN (cont'd)

(CT) 8.7 Customers may upgrade their CIR to a higher speed without incurring Termination Charges.

8.8 Customers may move their existing service to a new location without incurring Termination Charges provided all of the following conditions are met:

- The customer maintains the existing TPP at the new location or establishes a new TPP equal to or greater than the old location;
- During the TPP, a customer may move an OPT-E-MAN Service location to another premises in the same LATA and keep the TPP in force without assessment of Termination Charges, provided no lapse in billing occurs;
- The customer's request for disconnect at the existing location and the request for service at the new location are received at the same time, and the customer's disconnect order for the existing service references the new connect order for the new service;
- Moves of one location to a premise in a different serving office may result in a change in the monthly charges. Nonrecurring charges as appropriate are applicable.
- If the customer moves more than one location of the service concurrently, the customer will be liable for Termination Charges, as this is considered a complete disconnect of the service.

OPT-E-MAN℠ SERVICE

8. TERM PRICING PLAN (cont'd)

8.7 Customers may upgrade their Bandwidth Usage to a higher speed without incurring Termination Charges.

8.8 Customers may move their existing service to a new location without incurring Termination Charges provided all of the following conditions are met:

- The customer maintains the existing TPP at the new location or establishes a new TPP equal to or greater than the old location;
- During the TPP, a customer may move an OPT-E-MAN Service location to another premises in the same LATA and keep the TPP in force without assessment of Termination Charges, provided no lapse in billing occurs;
- The customer's request for disconnect at the existing location and the request for service at the new location are received at the same time, and the customer's disconnect order for the existing service references the new connect order for the new service;
- Moves of one location to a premise in a different serving office may result in a change in the monthly charges. Nonrecurring charges as appropriate are applicable.
- If the customer moves more than one location of the service concurrently, the customer will be liable for Termination Charges, as this is considered a complete disconnect of the service.

OPT-E-MAN[SM] SERVICE

(MT) Text formerly appearing on this sheet now appears in the Appendix found at the end of this Section.

OPT-E-MAN℠ SERVICE

9. PROMOTIONS

This section provides for promotions that will be available under the OPT-E-MAN Service tariff and, unless otherwise stated, the Rules and Regulations for OPT-E-MAN Service will apply. The rules and regulations are in addition to other rules and regulations as contained in this and other Company tariffs.

9.1 Promotional Period for OPT-E-MAN Service

A promotional period will be conducted from June 18, 2004 through September 16, 2004 for new customers subscribing to OPT-E-MAN Service. This promotion offers a variable discount to OPT-E-MAN customers who subscribe to both the Basic Service Connection and Bandwidth Usage rate elements for an agreed-upon number of connections, only at the 10 Mbps, 100 Mbps or 1 Gbps Bandwidth Usage rates. In addition, if the customer requires additional Ethernet Virtual Connections (EVCs), those are available under this promotion at a discounted rate.

9.2 Eligibility Criteria

In order to qualify for the OPT-E-MAN Service promotion, the following conditions must be met:

- The promotion will be available to new customers entering into either a 36 month or 60 month agreement.
- A written agreement must be executed by SBC that includes the term period, the discount rates and the service locations. The customer will not receive the discount if, at the time of billing, the number of connections in service is less than those specified in the written agreement.
- Special Construction Charges may apply.
- Nonrecurring charges for the Basic Service Connection, Bandwidth Usage and EVC elements will be waived when new service is established under this promotion.
- Tariff charges will apply for any Optional Features subscribed to by the customer during this promotional period.
- If the customer terminates the agreement prior to the expiration of the 36 or 60 month service term, the customer shall pay a termination charge. Payment of the termination charge does not release the customer from other previous amounts owed to the Company. In addition to any unpaid Special Construction or nonrecurring charges (excluding any waived charges), Termination Charges will be equal to fifty percent (50%) of all recurring charges for the remaining months of the customer's term.

OPT-E-MAN[SM] SERVICE

(MT) Text formerly appearing on this sheet now appears in the Appendix found at the end of this Section.

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

OPT-E-MAN[SM] SERVICE

9. PROMOTIONS (cont'd)

9.3 Promotional Pricing

Description	Bronze Package		Silver Package	
	36 Month	60 Month	36 Month	60 Month
10 Mbps				
10/100 Base T Basic Service Connection and Bandwidth Usage (10 Mbps)				
- per Connection				
2 – 4 Connections	$1,320.00	$1,200.00	Not Available	
5 – 9 Connections	1,155.00	1,050.00	Not Available	
10+ Connections	1,100.00	1,000.00	Not Available	
100 Mbps				
10/100 Base T Basic Service Connection and Bandwidth Usage (100 Mbps)				
- per Connection				
2 – 4 Connections	$1,430.00	$1,300.00	$1,485.00	$1,350.00
5 – 9 Connections	1,320.00	1,200.00	1,375.00	1,250.00
10+ Connections	1,265.00	1,150.00	1,320.00	1,200.00
1 Gbps				
1 Gbps Optical Basic Service Connection and Bandwidth Usage (1 Gbps)				
- per Connection				
2 – 4 Connections	$1,650.00	$1,500.00	$1,705.00	$1,550.00
5 – 9 Connections	1,430.00	1,300.00	1,485.00	1,350.00
10+ Connections	1,320.00	1,200.00	1,375.00	1,250.00
Ethernet Virtual Connections (EVCs)				
- per additional Connection				
10 or 100 Mbps	$25.00	$25.00	$30.00	$30.00
1 Gbps	75.00	75.00	87.50	87.50

Issued: May 19, 2004

Effective: June 18, 2004

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

OPT-E-MAN[SM] SERVICE

(MT) Text formerly appearing on this sheet now appears in the Appendix found at the end of this Section.

OPT-E-MAN[SM] SERVICE

9. PROMOTIONS (cont'd)

9.4 Promotional Period for OPT-E-MAN Service

A promotional period will be conducted from October 4, 2004 through January 5, 2005 for new customers subscribing to OPT-E-MAN Service. This promotion offers a variable discount to OPT-E-MAN customers who subscribe to the Basic Service Connection, Bandwidth Usage and Ethernet Virtual Connection (EVC) rate elements for an agreed-upon number of connections.

9.5 Eligibility Criteria

In order to qualify for the OPT-E-MAN Service promotion, the following conditions must be met:

- The promotion will be available to new customers entering into either a 36 month or 60 month agreement.
- A written agreement must be executed by SBC Missouri that includes the term period, the discount rates and the service locations. The customer will not receive the discount if, at the time of billing, the number of connections in service is less than those specified in the written agreement.
- Special Construction Charges may apply.
- Nonrecurring charges for the Basic Service Connection, Bandwidth Usage and EVC elements will be waived when new service is established under this promotion.
- Tariff charges will apply for any Optional Features subscribed to by the customer during this promotional period.
- If the customer terminates the agreement prior to the expiration of the 36 or 60 month service term, the customer shall pay a termination charge. Payment of the termination charge does not release the customer from other previous amounts owed to the Company. In addition to any unpaid Special Construction or nonrecurring charges (excluding any waived charges), Termination Charges will be equal to fifty percent (50%) of all recurring charges for the remaining months of the customer's term.

OPT-E-MAN[SM] SERVICE

(MT) Text formerly appearing on this sheet now appears in the Appendix found at the end of this Section.

OPT-E-MAN[SM] SERVICE

9. PROMOTIONS (cont'd)

9.6 Promotional Pricing

10/100 Base T Connection Options

Description	Bronze Package		Silver Package	
	36 Months	60 Months	36 Months	60 Months
10 Mbps				
Basic Service Connection, Bandwidth Usage (10 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	$1,785.00	$1,600.00	$1,985.00	$1,800.00
10+ Connections	1,300.00	1,175.00	1,500.00	1,375.00
20 Mbps				
Basic Service Connection, Bandwidth Usage (20 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	2,150.00	1,950.00	2,350.00	2,150.00
10+ Connections	1,550.00	1,400.00	1,750.00	1,600.00
50 Mbps				
Basic Service Connection, Bandwidth Usage (50 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	2,300.00	2,075.00	2,500.00	2,275.00
10+ Connections	1,675.00	1,500.00	1,875.00	1,700.00
100 Mbps				
Basic Service Connection, Bandwidth Usage (100 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	2,550.00	2,300.00	2,750.00	2,500.00
10+ Connections	1,850.00	1,675.00	2,050.00	1,875.00

OPT-E-MAN[SM] SERVICE

(MT) Text formerly appearing on this sheet now appears in the Appendix found at the end of this Section.

OPT-E-MAN[SM] SERVICE

9. PROMOTIONS (cont'd)

9.6 Promotional Pricing (cont'd)

10/100 Base T Connection Options (cont'd)

Description	Bronze Package		Silver Package	
	36 Months	60 Months	36 Months	60 Months
250 Mbps				
Basic Service Connection, Bandwidth Usage (250 Mbps) and Ethernet Virtual Connections (101-500 Mbps)				
- per Connection	Not Available		Not Available	
500 Mbps				
Basic Service Connection, Bandwidth Usage (500 Mbps) and Ethernet Virtual Connections (101-500 Mbps)				
- per Connection	Not Available		Not Available	
1 Gbps				
Basic Service Connection, Bandwidth Usage (1 Gbps) and Ethernet Virtual Connections (501-1,000 Mbps)				
- per Connection	Not Available		Not Available	

1 Gbps Optical Connection Options

Description	Bronze Package		Silver Package	
	36 Months	60 Months	36 Months	60 Months
10 Mbps				
Basic Service Connection, Bandwidth Usage (10 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	$1,935.00	$1,750.00	$2,125.00	$1,940.00
10+ Connections	1,450.00	1,325.00	1,640.00	1,515.00

OPT-E-MAN[SM] SERVICE

(MT) Text formerly appearing on this sheet now appears in the Appendix found at the end of this Section.

OPT-E-MAN[SM] SERVICE

9. PROMOTIONS (cont'd)

9.6 Promotional Pricing (cont'd)

1 Gbps Optical Connection Options (cont'd)

Description	Bronze Package		Silver Package	
	36 Months	60 Months	36 Months	60 Months
20 Mbps				
Basic Service Connection, Bandwidth Usage (20 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	$2,300.00	$2,100.00	$2,490.00	$2,290.00
10+ Connections	1,700.00	1,550.00	1,890.00	1,740.00
50 Mbps				
Basic Service Connection, Bandwidth Usage (50 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	2,450.00	2,225.00	2,640.00	2,415.00
10+ Connections	1,825.00	1,650.00	2,015.00	1,840.00
100 Mbps				
Basic Service Connection, Bandwidth Usage (100 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	2,700.00	2,450.00	2,900.00	2,640.00
10+ Connections	2,000.00	1,825.00	2,200.00	2,015.00
250 Mbps				
Basic Service Connection, Bandwidth Usage (250 Mbps) and Ethernet Virtual Connections (101-500 Mbps)				
- per Connection				
1 – 9 Connections	3,750.00	3,375.00	3,950.00	3,575.00
10+ Connections	2,575.00	2,325.00	2,775.00	2,525.00

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

OPT-E-MAN[SM] SERVICE

(MT) Text formerly appearing on this sheet now appears in the Appendix found at the end of this Section.

OPT-E-MAN[SM] SERVICE

9. PROMOTIONS (cont'd)

9.6 Promotional Pricing (cont'd)

1 Gbps Optical Connection Options (cont'd)

Description	Bronze Package		Silver Package	
	36 Months	60 Months	36 Months	60 Months
500 Mbps				
Basic Service Connection, Bandwidth Usage (500 Mbps) and Ethernet Virtual Connections (101-500 Mbps)				
- per Connection				
1 – 9 Connections	$4,250.00	$3,825.00	$4,450.00	$4,025.00
10+ Connections	2,900.00	2,600.00	3,100.00	2,800.00
1 Gbps				
Basic Service Connection, Bandwidth Usage (1 Gbps) and Ethernet Virtual Connections (501-1,000 Mbps)				
- per Connection				
1 – 9 Connections	5,100.00	4,590.00	5,300.00	4,790.00
10+ Connections	3,575.00	3,225.00	3,775.00	3,425.00

OPT-E-MAN[SM] SERVICE

(MT) PROMOTIONS

This section provides for promotions that will be available under the OPT-E-MAN Service tariff and, unless otherwise stated, the Rules and Regulations for OPT-E-MAN Service will apply. The rules and regulations are in addition to other rules and regulations as contained in this and other Company tariffs.

1.0 Promotional Period for OPT-E-MAN Service

A promotional period will be conducted from June 18, 2004 through September 16, 2004 for new customers subscribing to OPT-E-MAN Service. This promotion offers a variable discount to OPT-E-MAN customers who subscribe to both the Basic Service Connection and Bandwidth Usage rate elements for an agreed-upon number of connections, only at the 10 Mbps, 100 Mbps or 1 Gbps Bandwidth Usage rates. In addition, if the customer requires additional Ethernet Virtual Connections (EVCs), those are available under this promotion at a discounted rate.

1.1 Eligibility Criteria

In order to qualify for the OPT-E-MAN Service promotion, the following conditions must be met:

- The promotion will be available to new customers entering into either a 36 month or 60 month agreement.
- A written agreement must be executed by SBC that includes the term period, the discount rates and the service locations. The customer will not receive the discount if, at the time of billing, the number of connections in service is less than those specified in the written agreement.
- Special Construction Charges may apply.
- Nonrecurring charges for the Basic Service Connection, Bandwidth Usage and EVC elements will be waived when new service is established under this promotion.
- Tariff charges will apply for any Optional Features subscribed to by the customer during this promotional period.
- If the customer terminates the agreement prior to the expiration of the 36 or 60 month service term, the customer shall pay a termination charge. Payment of the termination charge does not release the customer from other previous amounts owed to the Company. In addition to any unpaid Special Construction or nonrecurring charges (excluding any waived charges), Termination Charges will be equal to fifty percent (50%) of all recurring charges for the remaining months of the customer's term.

(MT)

OPT-E-MAN[SM] SERVICE

(MT) PROMOTIONS (cont'd)

1.3 Promotional Pricing

Description	Bronze Package		Silver Package	
	36 Month	60 Month	36 Month	60 Month
10 Mbps				
10/100 Base T Basic Service Connection and Bandwidth Usage (10 Mbps)				
- per Connection				
2 – 4 Connections	$1,320.00	$1,200.00	Not Available	
5 – 9 Connections	1,155.00	1,050.00	Not Available	
10+ Connections	1,100.00	1,000.00	Not Available	
100 Mbps				
10/100 Base T Basic Service Connection and Bandwidth Usage (100 Mbps)				
- per Connection				
2 – 4 Connections	$1,430.00	$1,300.00	$1,485.00	$1,350.00
5 – 9 Connections	1,320.00	1,200.00	1,375.00	1,250.00
10+ Connections	1,265.00	1,150.00	1,320.00	1,200.00
1 Gbps				
1 Gbps Optical Basic Service Connection and Bandwidth Usage (1 Gbps)				
- per Connection				
2 – 4 Connections	$1,650.00	$1,500.00	$1,705.00	$1,550.00
5 – 9 Connections	1,430.00	1,300.00	1,485.00	1,350.00
10+ Connections	1,320.00	1,200.00	1,375.00	1,250.00
Ethernet Virtual Connections (EVCs)				
- per additional Connection				
10 or 100 Mbps	$25.00	$25.00	$30.00	$30.00
(MT) 1 Gbps	75.00	75.00	87.50	87.50

OPT-E-MAN[SM] SERVICE

(MT) PROMOTIONS (cont'd)

2.0 Promotional Period for OPT-E-MAN Service

A promotional period will be conducted from October 4, 2004 through January 5, 2005 for new customers subscribing to OPT-E-MAN Service. This promotion offers a variable discount to OPT-E-MAN customers who subscribe to the Basic Service Connection, Bandwidth Usage and Ethernet Virtual Connection (EVC) rate elements for an agreed-upon number of connections.

2.1 Eligibility Criteria

In order to qualify for the OPT-E-MAN Service promotion, the following conditions must be met:

- The promotion will be available to new customers entering into either a 36 month or 60 month agreement.
- A written agreement must be executed by SBC Missouri that includes the term period, the discount rates and the service locations. The customer will not receive the discount if, at the time of billing, the number of connections in service is less than those specified in the written agreement.
- Special Construction Charges may apply.
- Nonrecurring charges for the Basic Service Connection, Bandwidth Usage and EVC elements will be waived when new service is established under this promotion.
- Tariff charges will apply for any Optional Features subscribed to by the customer during this promotional period.
- If the customer terminates the agreement prior to the expiration of the 36 or 60 month service term, the customer shall pay a termination charge. Payment of the termination charge does not release the customer from other previous amounts owed to the Company. In addition to any unpaid Special Construction or nonrecurring charges (excluding any waived charges), Termination Charges will be equal to fifty percent (50%) of all recurring charges for the remaining months of the customer's term.

(MT)

OPT-E-MAN[SM] SERVICE

(MT) PROMOTIONS (cont'd)

2.3 Promotional Pricing

10/100 Base T Connection Options

Description	Bronze Package		Silver Package	
	36 Months	60 Months	36 Months	60 Months
10 Mbps				
Basic Service Connection, Bandwidth Usage (10 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	$1,785.00	$1,600.00	$1,985.00	$1,800.00
10+ Connections	1,300.00	1,175.00	1,500.00	1,375.00
20 Mbps				
Basic Service Connection, Bandwidth Usage (20 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	2,150.00	1,950.00	2,350.00	2,150.00
10+ Connections	1,550.00	1,400.00	1,750.00	1,600.00
50 Mbps				
Basic Service Connection, Bandwidth Usage (50 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	2,300.00	2,075.00	2,500.00	2,275.00
10+ Connections	1,675.00	1,500.00	1,875.00	1,700.00
100 Mbps				
Basic Service Connection, Bandwidth Usage (100 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	2,550.00	2,300.00	2,750.00	2,500.00
(MT) 10+ Connections	1,850.00	1,675.00	2,050.00	1,875.00

OPT-E-MAN[SM] SERVICE

(MT) PROMOTIONS (cont'd)

2.3 Promotional Pricing (cont'd)

10/100 Base T Connection Options (cont'd)

Description	Bronze Package		Silver Package	
	36 Months	60 Months	36 Months	60 Months
250 Mbps				
Basic Service Connection, Bandwidth Usage (250 Mbps) and Ethernet Virtual Connections (101-500 Mbps)				
- per Connection	Not Available		Not Available	
500 Mbps				
Basic Service Connection, Bandwidth Usage (500 Mbps) and Ethernet Virtual Connections (101-500 Mbps)				
- per Connection	Not Available		Not Available	
1 Gbps				
Basic Service Connection, Bandwidth Usage (1 Gbps) and Ethernet Virtual Connections (501-1,000 Mbps)				
- per Connection	Not Available		Not Available	

1 Gbps Optical Connection Options

Description	Bronze Package		Silver Package	
	36 Months	60 Months	36 Months	60 Months
10 Mbps				
Basic Service Connection, Bandwidth Usage (10 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	$1,935.00	$1,750.00	$2,125.00	$1,940.00
(MT) 10+ Connections	1,450.00	1,325.00	1,640.00	1,515.00

OPT-E-MAN[SM] SERVICE

(MT) PROMOTIONS (cont'd)

2.3 Promotional Pricing (cont'd)

1 Gbps Optical Connection Options (cont'd)

Description	Bronze Package		Silver Package	
	36 Months	60 Months	36 Months	60 Months
20 Mbps				
Basic Service Connection, Bandwidth Usage (20 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	$2,300.00	$2,100.00	$2,490.00	$2,290.00
10+ Connections	1,700.00	1,550.00	1,890.00	1,740.00
50 Mbps				
Basic Service Connection, Bandwidth Usage (50 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	2,450.00	2,225.00	2,640.00	2,415.00
10+ Connections	1,825.00	1,650.00	2,015.00	1,840.00
100 Mbps				
Basic Service Connection, Bandwidth Usage (100 Mbps) and Ethernet Virtual Connections (10-100 Mbps)				
- per Connection				
1 – 9 Connections	2,700.00	2,450.00	2,900.00	2,640.00
10+ Connections	2,000.00	1,825.00	2,200.00	2,015.00
250 Mbps				
Basic Service Connection, Bandwidth Usage (250 Mbps) and Ethernet Virtual Connections (101-500 Mbps)				
- per Connection				
1 – 9 Connections	3,750.00	3,375.00	3,950.00	3,575.00
(MT) 10+ Connections	2,575.00	2,325.00	2,775.00	2,525.00

OPT-E-MAN[SM] SERVICE

(MT) PROMOTIONS (cont'd)

2.3 Promotional Pricing (cont'd)

1 Gbps Optical Connection Options (cont'd)

Description	Bronze Package		Silver Package	
	36 Months	60 Months	36 Months	60 Months
500 Mbps				
Basic Service Connection, Bandwidth Usage (500 Mbps) and Ethernet Virtual Connections (101-500 Mbps)				
- per Connection				
1 – 9 Connections	$4,250.00	$3,825.00	$4,450.00	$4,025.00
10+ Connections	2,900.00	2,600.00	3,100.00	2,800.00
1 Gbps				
Basic Service Connection, Bandwidth Usage (1 Gbps) and Ethernet Virtual Connections (501-1,000 Mbps)				
- per Connection				
1 – 9 Connections	5,100.00	4,590.00	5,300.00	4,790.00
(MT) 10+ Connections	3,575.00	3,225.00	3,775.00	3,425.00

OPT-E-MAN[SM] SERVICE

PROMOTIONS (cont'd)

3.0 Promotional Period for OPT-E-MAN Service

A promotional period shall be established from March 18, 2005 through September 1, 2005 for customers newly subscribing to OPT-E-MAN Service. This promotion offers a variable discount on the Committed Information Rate (CIR) service element for those customers who are located within 15 miles from a Central Office equipped with OPT-E-MAN functionality as identified in the NECA4 tariff. This promotion is only available to those customers selecting the 5 Mbps, 10 Mbps, 20 Mbps, 50 Mbps, 100 Mbps, 250 Mbps, 500 Mbps or 1 Gbps CIR speeds.

3.1 Eligibility Criteria

In order to qualify for the OPT-E-MAN Service promotion, the following conditions must be met:

- The promotion will be available to new OPT-E-MAN customers entering into either a 36 month or 60 month agreement.
- A written agreement must be executed by SBC Missouri that includes the term period, the discount rates and the service locations.
- Special Construction Charges may apply.
- Nonrecurring charges for the CIR element will be waived as outlined in Paragraph 7 (Rates and Charges), Sheet 12 of this Section.
- Tariff charges will apply for any Optional Features subscribed to by the customer during this promotional period.
- If the customer terminates the agreement prior to the expiration of the 36 or 60 month service term, the customer shall pay a termination charge. Payment of the termination charge does not release the customer from other previous amounts owed to the Company. In addition to any unpaid Special Construction or nonrecurring charges (excluding any waived charges), Termination Charges will be equal to fifty percent (50%) of all recurring charges for the remaining months of the customer's term.

OPT-E-MAN[SM] SERVICE

PROMOTIONS (cont'd)

3.3 Promotional Pricing

10/100 Base T Connection Options (Basic or Basic Plus Service)

Description	Bronze Package		Silver Package	
	36 Months	60 Months	36 Months	60 Months
Committed Information Rate (CIR), per Connection				
5 Mbps	$ 450.00	$ 450.00	$ 650.00	$ 650.00
10 Mbps	650.00	650.00	850.00	850.00
20 Mbps	900.00	900.00	1,100.00	1,100.00
50 Mbps	1,025.00	1,025.00	1,225.00	1,225.00
100 Mbps	1,200.00	1,200.00	1,400.00	1,400.00
250 Mbps	Not Available		Not Available	
500 Mbps	Not Available		Not Available	
1 Gbps	Not Available		Not Available	

1 Gbps Optical Connection Options (Basic or Basic Plus Service)

Description	Bronze Package		Silver Package	
	36 Months	60 Months	36 Months	60 Months
Committed Information Rate (CIR), per Connection				
5 Mbps	$ 450.00	$ 450.00	$ 650.00	$ 650.00
10 Mbps	650.00	650.00	850.00	850.00
20 Mbps	900.00	900.00	1,100.00	1,100.00
50 Mbps	1,025.00	1,025.00	1,225.00	1,225.00
100 Mbps	1,200.00	1,200.00	1,400.00	1,400.00
250 Mbps	1,575.00	1,575.00	1,975.00	1,975.00
500 Mbps	1,900.00	1,900.00	2,300.00	2,300.00
1 Gbps	2,575.00	2,575.00	2,975.00	2,975.00

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

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

1. GENERAL DESCRIPTION

Customized Switched Metro Ethernet Service (CSME Service) is a switched Layer 2 Ethernet network allowing for basic metropolitan Ethernet connectivity. CSME Service allows businesses to interconnect multiple customer locations within a LATA as if they were segments on the same LAN using packet-based switching technologies. Connections at the customer premises are made using Native Ethernet interfaces and traverse the MAN over fiber facilities. CSME Service
(AT) provides bandwidth of either 10 Mbps, 100 Mbps or 1 Gbps(1).

Customers connect to CSME Service via one of the following standard connections, as requested by the customer:

(AT)
- 10/100 Base T (10 Mbps or 100 Mbps)
- Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX)

Customers may connect multiple locations together, as long as they are in the same LATA or MAN and the service is available. This service acts as an Ethernet bridge supporting LAN-to-LAN connections.

CSME Service includes the connection from the customer's premise to the Ethernet network, a port on the Ethernet network and the bandwidth that will be used across the network. An optional feature is the ability to segregate customer traffic, as deemed necessary by the customer. This traffic segregation is accomplished using Ethernet Virtual Connections (EVCs), at an additional charge.

(1) Bandwidth is inclusive of allowances for overhead within the Ethernet network. If a customer
(CP) orders 1 Gbps of bandwidth on a single port, the Company reserves the right to use up to 10 % of
(CT) the bandwidth for traffic management.

Issued: February 25, 2005 Effective: March 28, 2005

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

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

Digital Link Services Tariff
Section 26
1st Revised Sheet 1
Replacing Original Sheet 1

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

1. GENERAL DESCRIPTION

Customized Switched Metro Ethernet Service (CSME Service) is a switched Layer 2 Ethernet network allowing for basic metropolitan Ethernet connectivity. CSME Service allows businesses to interconnect multiple customer locations within a LATA as if they were segments on the same LAN using packet-based switching technologies. Connections at the customer premises are made using Native Ethernet interfaces and traverse the MAN over fiber facilities. CSME Service provides
(RT)(AT) bandwidth of either 100 Mbps or 1 Gbps(1).

Customers connect to CSME Service via one of the following standard connections, as requested by the customer:

- 10/100 Base T (100 Mbps)
- Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX)

Customers may connect multiple locations together, as long as they are in the same LATA or MAN and the service is available. This service acts as an Ethernet bridge supporting LAN-to-LAN connections.

CSME Service includes the connection from the customer's premise to the Ethernet network, a port on the Ethernet network and the bandwidth that will be used across the network. An optional feature is the ability to segregate customer traffic, as deemed necessary by the customer. This traffic segregation is accomplished using Ethernet Virtual Connections (EVCs), at an additional charge.

(AT) (1) Bandwidth is inclusive of allowances for overhead within the Ethernet network. If a customer
| orders 1 Gbps of bandwidth on a single port, the Company reserves the right to use up to 70 Mbps
(AT) of bandwidth for traffic management.

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

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

1. GENERAL DESCRIPTION

Customized Switched Metro Ethernet Service (CSME Service) is a switched Layer 2 Ethernet network allowing for basic metropolitan Ethernet connectivity. CSME Service allows businesses to interconnect multiple customer locations within a LATA as if they were segments on the same LAN using packet-based switching technologies. Connections at the customer premises are made using Native Ethernet interfaces and traverse the MAN over fiber facilities. CSME Service provides bandwidth of either up to 100 Mbps or up to 1 Gbps.

Customers connect to CSME Service via one of the following standard connections, as requested by the customer:

- 10/100 Base T (100 Mbps)
- Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX)

Customers may connect multiple locations together, as long as they are in the same LATA or MAN and the service is available. This service acts as an Ethernet bridge supporting LAN-to-LAN connections.

CSME Service includes the connection from the customer's premise to the Ethernet network, a port on the Ethernet network and the bandwidth that will be used across the network. An optional feature is the ability to segregate customer traffic, as deemed necessary by the customer. This traffic segregation is accomplished using Ethernet Virtual Connections (EVCs), at an additional charge.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

2. REGULATIONS

In addition to the regulations contained in this tariff, the following regulations apply to CSME Service:

2.1 CSME Service is provided at the option of the Company where equipment and facilities permit. If appropriate facilities are not available, Special Construction charges may apply.

(RT)
|
(RT)

(FC) 2.2 The customer provided equipment (CPE) must deliver the data signal for the CSME transport within the industry specification for the subscribed data service. See ***TECHNICAL REFERENCES*** following.

(FC) 2.3 CSME Service supports full duplex communication.

(FC) 2.4 If a customer connects to the CSME network using a bridge or switch for Layer 2 connectivity,
(CP) only 150 MAC addresses can be used per Layer 2 device, per port. Any additional addresses
| over the first 150 will be assessed an additional charge, with a limit of 200 MAC addresses total
(CP) per port. An additional charge will be assessed per block of 151-200 addresses. See ***RATES AND CHARGES*** following.

(FC) 2.5 CSME Service is distance limited, based on circuit configuration as determined by the Company. A repeater may be used to extend the transmission of CSME Service. See Repeater under ***SERVICE COMPONENTS*** following for further definition. See ***RATES AND CHARGES*** following.

(FC) 2.6 Should the customer wish to segregate traffic, a total of 8 Ethernet Virtual Connections (EVCs) may be configured per 10/100 Base T connection. A total of 64 EVCs may be configured per 1 Gbps connection. Should the customer request more than 64 EVCs on a 1 Gbps connection, a technical review will need to be conducted to determine whether the network will support more than 64 EVCs.

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

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

2. REGULATIONS

In addition to the regulations contained in this tariff, the following regulations apply to CSME Service:

(RT)
(RT)

(FC) 2.1 CSME Service is provided at the option of the Company where equipment and facilities permit. If appropriate facilities are not available, Special Construction charges may apply.

(FC) 2.2 CSME Service does not provide redundancy in the core network. If the customer requires redundancy, an Inter-Switch Trunk Charge will apply. In addition, if the customer grows their network, which leads to growth in the backbone of the network, then an Inter-Switch Trunk Charge will also apply. See ***RATES AND CHARGES*** following.

(FC) 2.3 The customer provided equipment (CPE) must deliver the data signal for the CSME transport within the industry specification for the subscribed data service. See ***TECHNICAL REFERENCES*** following.

(FC) 2.4 CSME Service supports full duplex communication.

(FC) 2.5 If a customer connects to the CSME network using a bridge or switch for Layer 2 connectivity, only 50 MAC addresses can be used per Layer 2 device, per port. Any additional addresses over the first 50 will be assessed an additional charge, with a limit of 100 MAC addresses total per port. The additional charge will be assessed per block of 51-100 addresses. See ***RATES AND CHARGES*** following.

(FC) 2.6 CSME Service is distance limited, based on circuit configuration as determined by the Company. A repeater may be used to extend the transmission of CSME Service. See Repeater under ***SERVICE COMPONENTS*** following for further definition. See ***RATES AND CHARGES*** following.

(FC) 2.7 Should the customer wish to segregate traffic, a total of 8 Ethernet Virtual Connections (EVCs) may be configured per 10/100 Base T connection. A total of 64 EVCs may be configured per 1 Gbps connection. Should the customer request more than 64 EVCs on a 1 Gbps connection, a technical review will need to be conducted to determine whether the network will support more than 64 EVCs.

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

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

2. REGULATIONS

In addition to the regulations contained in this tariff, the following regulations apply to CSME Service:

2.1 CSME Service is available only to governmental entities, non-profit organizations, school districts, and public libraries.

2.2 CSME Service is provided at the option of the Company where equipment and facilities permit. If appropriate facilities are not available, Special Construction charges may apply.

2.3 CSME Service does not provide redundancy in the core network. If the customer requires redundancy, an Inter-Switch Trunk Charge will apply. In addition, if the customer grows their network, which leads to growth in the backbone of the network, then an Inter-Switch Trunk Charge will also apply. See ***RATES AND CHARGES*** following.

2.4 The customer provided equipment (CPE) must deliver the data signal for the CSME transport within the industry specification for the subscribed data service. See ***TECHNICAL REFERENCES*** following.

2.5 CSME Service supports full duplex communication.

2.6 If a customer connects to the CSME network using a bridge or switch for Layer 2 connectivity, only 50 MAC addresses can be used per Layer 2 device, per port. Any additional addresses over the first 50 will be assessed an additional charge, with a limit of 100 MAC addresses total per port. The additional charge will be assessed per block of 51-100 addresses. See ***RATES AND CHARGES*** following.

2.7 CSME Service is distance limited, based on circuit configuration as determined by the Company. A repeater may be used to extend the transmission of CSME Service. See Repeater under ***SERVICE COMPONENTS*** following for further definition. See ***RATES AND CHARGES*** following.

2.8 Should the customer wish to segregate traffic, a total of 8 Ethernet Virtual Connections (EVCs) may be configured per 10/100 Base T connection. A total of 64 EVCs may be configured per 1 Gbps connection. Should the customer request more than 64 EVCs on a 1 Gbps connection, a technical review will need to be conducted to determine whether the network will support more than 64 EVCs.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

2. Regulations (cont'd)

2.7 If a customer desires that service be provided on a due date less than the standard interval, the customer may request that service be provided on an expedited basis. If the Company determines that service can be provided on the requested expedited date and spare facilities are available, the Expedite Order Charge (per port, per location) will apply. See ***RATES AND CHARGES*** following.

2.8 If the customer cancels service prior to installation being completed, a Service Order Cancellation charge (per port, per location) will apply. See ***RATES AND CHARGES*** following. The customer's intent to cancel service must be made in writing.

2.9 CSME Service is not available in a meet-point billing arrangement involving other Carriers.

2.10 Service Level Agreements are not offered with this service. However, Credit Allowances are applicable. See ***RATES AND CHARGES*** following.

2.11 The Company will use controls to limit the amount of multicast and broadcast traffic to protect the CSME network against traffic storms. The maximum throughput of multicast traffic will be set at 1 Mbps per customer port, while the maximum throughput of broadcast traffic will be set at 200 packets per second per port. The Company recommends that customers enable controls for multicast, broadcast and unknown unicast traffic within the customer network(s) . (AT)(RT) (AT)(RT)

2.12 If the 10 Mbps or 100 Mbps connection is ordered, it will only be provisioned using the 10/100 Base T connection.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

2. REGULATIONS (cont'd)

(FC) 2.7 If a customer desires that service be provided on a due date less than the standard interval, the customer may request that service be provided on an expedited basis. If the Company determines that service can be provided on the requested expedited date and spare facilities are available, the Expedite Order Charge (per port, per location) will apply. See ***RATES AND CHARGES*** following.

(FC) 2.8 If the customer cancels service prior to installation being completed, a Service Order Cancellation charge (per port, per location) will apply. See ***RATES AND CHARGES*** following. The customer's intent to cancel service must be made in writing.

(FC) 2.9 CSME Service is not available in a meet-point billing arrangement involving other Carriers.

(FC) 2.10 Service Level Agreements are not offered with this service. However, Credit Allowances are applicable. See ***RATES AND CHARGES*** following.

(FC) 2.11 CSME customers will be required to migrate CSME Service to OPT-E-MAN Service when it becomes available within the serving area. The Company will notify affected customers when such migration is required. Existing contract terms for CSME will be honored, however a new service agreement for OPT-E-MAN Service will need to be negotiated upon the CSME contract expiration.

(AT)(FC) 2.12 If the 10 Mbps or 100 Mbps connection is ordered, it will only be provisioned using the 10/100 Base T connection.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

2. REGULATIONS (cont'd)

(FC) 2.8 If a customer desires that service be provided on a due date less than the standard interval, the customer may request that service be provided on an expedited basis. If the Company determines that service can be provided on the requested expedited date and spare facilities are available, the Expedite Order Charge (per port, per location) will apply. See ***RATES AND CHARGES*** following.

(FC) 2.9 If the customer cancels service prior to installation being completed, a Service Order Cancellation charge (per port, per location) will apply. See ***RATES AND CHARGES*** following. The customer's intent to cancel service must be made in writing.

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(FC) 2.11 Service Level Agreements are not offered with this service. However, Credit Allowances are applicable. See ***RATES AND CHARGES*** following.

(FC) 2.12 CSME customers will be required to migrate CSME Service to OPT-E-MAN Service when it becomes available within the serving area. The Company will notify affected customers when such migration is required. Existing contract terms for CSME will be honored, however a new service agreement for OPT-E-MAN Service will need to be negotiated upon the CSME contract expiration.

(FC) 2.13 If the 100 Mbps connection is ordered, it will only be provisioned using the 10/100 Base T connection.

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

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

2. REGULATIONS (cont'd)

2.9 If a customer desires that service be provided on a due date less than the standard interval, the customer may request that service be provided on an expedited basis. If the Company determines that service can be provided on the requested expedited date and spare facilities are available, the Expedite Order Charge (per port, per location) will apply. See ***RATES AND CHARGES*** following.

2.10 If the customer cancels service prior to installation being completed, a Service Order Cancellation charge (per port, per location) will apply. See ***RATES AND CHARGES*** following. The customer's intent to cancel service must be made in writing.

2.11 CSME Service is not available in a meet-point billing arrangement involving other Carriers.

2.12 Service Level Agreements are not offered with this service. However, Credit Allowances are applicable. See ***RATES AND CHARGES*** following.

2.13 CSME customers will be required to migrate CSME Service to OPT-E-MAN Service when it becomes available within the serving area. The Company will notify affected customers when such migration is required. Existing contract terms for CSME will be honored, however a new service agreement for OPT-E-MAN Service will need to be negotiated upon the CSME contract expiration.

2.14 If the 100 Mbps connection is ordered, it will only be provisioned using the 10/100 Base T connection.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

2. REGULATIONS (cont'd)

2.13 Allowance for Interruption

In case of an interruption to service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100% of the applicable monthly rates.

The Company will be excluded from providing an Allowance for Interruption should any of the following conditions occur:

- Force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.
- The failures of any components beyond the local facility including the Network Interface (NI), the CSU/DSU/Channel band/Extended Demarcation are excluded from the service outage calculation.
- Data loss during the Company's scheduled maintenance window.
- Failures attributed to facilities or equipment provided by customer or its contractors, equipment vendors, another local exchange carrier or inter-exchange carrier.

2.14 The responsibility of the Company shall be limited to furnishing the CSME network. Subject to this responsibility, the Company shall not be responsible for the through transmission of signals generated by CPE or for the quality of, or defects in, such transmission or the rejection of signal by CPE. The Company shall not be responsible for installation, operation, maintenance or adapting CSME to the technological requirements of specific CPE. In addition, the Company shall not be responsible to the customer if changes in any of the equipment, operations or procedures of the Company used in the provisioning of CSME render any facilities provided by the customer obsolete; or require modification or alteration of such equipment or system; or otherwise affect its use or performance, provided the Company has met all applicable information disclosure requirements otherwise required by law.

(AT) 2.15 Customers will be permitted to move from a 10 Mbps or 100 Mbps Connection to a 1 Gbps Connection, however, the Nonrecurring Charge associated with the new 1 Gbps Connection will apply. See ***PRICES*** following.
(AT)

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

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

2. REGULATIONS (cont'd)

(FC) 2.13 Allowance for Interruption

In case of an interruption to service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100% of the applicable monthly rates.

The Company will be excluded from providing an Allowance for Interruption should any of the following conditions occur:

- Force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.
- The failures of any components beyond the local facility including the Network Interface (NI), the CSU/DSU/Channel band/Extended Demarcation are excluded from the service outage calculation.
- Data loss during the Company's scheduled maintenance window.
- Failures attributed to facilities or equipment provided by customer or its contractors, equipment vendors, another local exchange carrier or inter-exchange carrier.

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(AT) information disclosure requirements otherwise required by law.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

2. REGULATIONS (cont'd)

2.14 Allowance for Interruption

In case of an interruption to service, allowance for the period of interruption, if not due to the negligence of the customer or the customer's end user, shall be as follows: no credit shall be allowed for an interruption of less than 10 seconds. The customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the service for each period of 5 minutes or major fraction thereof that the interruption continues. The credit allowance(s) for service interruptions shall not exceed 100% of the applicable monthly rates.

The Company will be excluded from providing an Allowance for Interruption should any of the following conditions occur:

- Force majeure events such as, but not limited to, an earthquake, hurricane, flood, fire, storms, tornadoes, explosion, lightning, power surges or failure, fiber cuts, strikes or labor disputes, acts of war, civil disturbances, acts of civil or military authorities or public enemy, governmental orders, civil commotion, criminal actions taken against the Company, acts of God and other circumstances beyond the Company's reasonable control.
- The failures of any components beyond the local facility including the Network Interface (NI), the CSU/DSU/Channel band/Extended Demarcation are excluded from the service outage calculation.
- Data loss during the Company's scheduled maintenance window.
- Failures attributed to facilities or equipment provided by customer or its contractors, equipment vendors, another local exchange carrier or inter-exchange carrier.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

3. Technical Specifications Packages

Technical specifications for CSME Service are described in the following technical references:

Ethernet Standards	SBC TP-76412-000
Network Equipment Design Requirements	SBC TP-76200MP

These publications may be obtained from:

APEx Support Team (CT)
734-523-7348 (CT)

4. Service Components

There is one standard (or required) rate element which applies for CSME Service: Usage, Port, Transport and Interface.

4.1 Usage, Port, Transport and Interface

Provides for the physical connection between the customer's premise and the serving wire center, as well as the bandwidth that will be used by the customer at each location. Several interface protocols are available: 10/100 Base T and Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX).

In addition, there are three optional rate elements which may apply to CSME, depending on the customer's configuration: Additional MAC Addresses, Ethernet Virtual Connections (EVC), and Repeater.

4.2 Additional MAC Addresses

Media Access Control (MAC) Addresses denote a data link layer protocol used for Layer 2 connectivity. If a customer connects to the CSME network using a bridge or switch for Layer 2 connectivity, only 150 MAC addresses can be used per Layer 2 device, per port. Any additional addresses over the first 150 will be assessed an additional charge, with a limit of 200 MAC addresses total per port. An additional charge will be assessed per block of 151-200 addresses.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

3. TECHNICAL SPECIFICATIONS PACKAGES

Technical specifications for CSME Service are described in the following technical references:

Ethernet Standards	SBC TP-76412-000
Network Equipment Design Requirements	SBC TP-76200MP

These publications may be obtained from:

SBC Help Desk and Document Center
517-788-6872

4. SERVICE COMPONENTS

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4.1 Usage, Port, Transport and Interface

Provides for the physical connection between the customer's premise and the serving wire center, as well as the bandwidth that will be used by the customer at each location. Several interface protocols are available: 10/100 Base T and Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX).

(CT) (RT) In addition, there are three optional rate elements which may apply to CSME, depending on the customer's configuration: Additional MAC Addresses, Ethernet Virtual Connections (EVC), and Repeater.

4.2 Additional MAC Addresses

(CP) | (CP) Media Access Control (MAC) Addresses denote a data link layer protocol used for Layer 2 connectivity. If a customer connects to the CSME network using a bridge or switch for Layer 2 connectivity, only 150 MAC addresses can be used per Layer 2 device, per port. Any additional addresses over the first 150 will be assessed an additional charge, with a limit of 200 MAC addresses total per port. An additional charge will be assessed per block of 151-200 addresses.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

3. TECHNICAL SPECIFICATIONS PACKAGES

Technical specifications for CSME Service are described in the following technical references:

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These publications may be obtained from:

SBC Help Desk and Document Center
517-788-6872

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4.1 Usage, Port, Transport and Interface

Provides for the physical connection between the customer's premise and the serving wire center, as well as the bandwidth that will be used by the customer at each location. Several interface protocols are available: 10/100 Base T and Gigabit Ethernet (1000 Base SX, 1000 Base LX/LH or 1000 Base ZX).

In addition, there are four optional rate elements which may apply to CSME, depending on the customer's configuration: Additional MAC Addresses, Ethernet Virtual Connections (EVC), Inter-Switch Trunk Charge and Repeater.

4.2 Additional MAC Addresses

Media Access Control (MAC) Addresses denote a data link layer protocol used for Layer 2 connectivity. If a customer connects to the CSME network using a bridge or switch for Layer 2 connectivity, only 50 MAC addresses can be used per Layer 2 device, per port. Any additional addresses over the first 50 will be assessed an additional charge, with a limit of 100 MAC addresses total per port. The additional charge will be assessed per block of 51-100 addresses.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

4. SERVICE COMPONENTS (cont'd)

4.3 Ethernet Virtual Connections (EVCs)

An Ethernet Virtual Connection is a logical point-to-point connection between two customer locations, and goes from the customer demarcation point at one location through the network to terminate at the demarcation point at the second customer location. Customers use EVCs if they desire traffic segregation, but EVCs will not provide for traffic prioritization. EVCs may be ordered to establish additional virtual connections over the same physical connection. When EVCs are ordered, the customer must designate the amount of bandwidth to be assigned to each EVC. EVCs can be set in 1 Mbps increments from 5 Mbps to 1 Gbps.

(RT)

(RT)

(FC) 4.4 Repeater

For those customers who are located outside normal transmission parameters, service can be provided using a repeater to be placed in Company wire centers. An engineering study will be completed to ensure transmission parameters can be met using a repeater, and the Company will determine when Repeaters are necessary. Additional charges will apply. Provisioning of CSME Service is subject to the availability and operational limitations of the equipment and associated facilities.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

4. SERVICE COMPONENTS (cont'd)

4.3 Ethernet Virtual Connections (EVCs)

An Ethernet Virtual Connection is a logical point-to-point connection between two customer locations, and goes from the customer demarcation point at one location through the network to terminate at the demarcation point at the second customer location. Customers use EVCs if they desire traffic segregation, but EVCs will not provide for traffic prioritization. EVCs may be ordered to establish additional virtual connections over the same physical connection. When EVCs are ordered, the customer must designate the amount of bandwidth to be assigned to each EVC. EVCs can be set in 1 Mbps increments from 5 Mbps to 1 Gbps.

4.4 Inter-Switch Trunk Charge

An Inter-Switch Trunk Charge provides for additional links between core network devices to provide redundancy and/or to support customer-requested bandwidth augments to the core network.

4.5 Repeater

For those customers who are located outside normal transmission parameters, service can be provided using a repeater to be placed in Company wire centers. An engineering study will be completed to ensure transmission parameters can be met using a repeater, and the Company will determine when Repeaters are necessary. Additional charges will apply. Provisioning of CSME Service is subject to the availability and operational limitations of the equipment and associated facilities.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

5. RATES AND CHARGES

There are two types of rates and charges for CSME Service: Nonrecurring Charges and Recurring Charges.

5.1 Nonrecurring Charges are one-time charges that apply for specific work activity related to the provisioning of CSME Service.

5.2 Recurring Charges are flat recurring rates that apply each month or fraction thereof that the service is provided. Recurring rates may be applied only over a 36 or 60 month period under the terms and conditions of the Term Pricing Plan (TPP), described in ***TERM PAYMENT PLANS (TPP)*** following. Upon completion of a TPP, a customer's service will automatically convert to the Monthly Extension rates unless the customer requests a new TPP. No customer shall purchase CSME Service on a month-to-month basis prior to the completion of a TPP.

(MT)

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

5. RATES AND CHARGES

There are two types of rates and charges for CSME Service: Nonrecurring Charges and Recurring Charges.

5.1 Nonrecurring Charges are one-time charges that apply for specific work activity related to the provisioning of CSME Service.

5.2 Recurring Charges are flat recurring rates that apply each month or fraction thereof that the service is provided. Recurring rates may be applied only over a 36 or 60 month period under the terms and conditions of the Term Pricing Plan (TPP), described in ***TERM PAYMENT PLANS (TPP)*** following. Upon completion of a TPP, a customer's service will automatically convert to the Monthly Extension rates unless the customer requests a new TPP. No customer shall purchase CSME Service on a month-to-month basis prior to the completion of a TPP.

		Monthly Payment		
		Term Payment Plans		
Description	Nonrecurring Charge	36 Months	60 Months	Monthly Extension
Standard Charges				
Usage, Port, Transport, Interface, each customer location				
100 Mbps				
- Initial Connection	$1,925.00	$2,250.00	$1,925.00	$2,800.00
- Subsequent Connection	1,200.00	1,200.00	1,025.00	1,560.00
1 Gbps	2,500.00	4,000.00	3,500.00	4,900.00
Optional Charges				
Repeater				
- each	250.00	400.00	375.00	475.00

5. Rates and Charges (cont'd)

Description	Nonrecurring Charge	Monthly Payment *Term Payment Plans* 36 Months	60 Months	Monthly Extension
Standard Charges				
Usage, Port, Transport, Interface, each customer location				
10 Mbps Connection /P9FYX/	$1,600.00	$1,170.00(CR)	$1,100.00(CR)	$1,550.00(CR)
- Subsequent 10 Mbps Connection(1) /P9FZX/	1,150.00	950.00	800.00	1,200.00
100 Mbps Connection /P9FKX/	1,925.00	1,665.00(CR)	1,600.00(CR)	2,500.00(CR)
- Subsequent 100 Mbps Connection(1) /P9FPX/	1,200.00	1,200.00	1,025.00	1,560.00
1 Gbps /P9FLX/	2,500.00	3,220.00(CR)	3,080.00(CR)	3,900.00(CR)
Optional Charges				
Repeater - each /VU4/	250.00	400.00	375.00	475.00

(1) Any Subsequent 10 Mbps or 100 Mbps Connections must terminate at the same locations as the original 10 Mbps or 100 Mbps Connections.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

5. RATES AND CHARGES (cont'd)

(MT)

	Description	Nonrecurring Charge	Monthly Payment *Term Payment Plans* 36 Months	Monthly Payment *Term Payment Plans* 60 Months	Monthly Extension
	Standard Charges				
	Usage, Port, Transport, Interface, each customer location				
(AT) (NR)	10 Mbps Connection /P9FYX/	$1,600.00	$1,500.00	$1,350.00	$1,800.00
(AT) (AT) (NR)	- Subsequent 10 Mbps Connection(1) /P9FZX/	1,150.00	950.00	800.00	1,200.00
(AT)	100 Mbps Connection /P9FKX/	1,925.00	2,250.00	1,925.00	2,800.00
(AT)	- Subsequent 100 Mbps Connection(1) /P9FPX/	1,200.00	1,200.00	1,025.00	1,560.00
(AT)	1 Gbps /P9FLX/	2,500.00	4,000.00	3,500.00	4,900.00
	Optional Charges				
(MT)(AT)	Repeater - each /VU4/	250.00	400.00	375.00	475.00

(AT) (1) Any Subsequent 10 Mbps or 100 Mbps Connections must terminate at the same locations as the (AT) original 10 Mbps or 100 Mbps Connections.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

5. RATES AND CHARGES (cont'd)

	Description	Nonrecurring Charge	Monthly Price
	Optional Charges (cont'd)		
(AT)	Ethernet Virtual Connection (EVC) - per connection /EVNDE/	$ 70.00	$ 25.00
(RT) (DR)			
(AT)(CP)	Additional MAC Addresses - 151-200 MAC addresses /M2CAX/	70.00	5.00
(AT)	Service Order Cancellation - per location /OCGEO/	200.00	--
(AT)	Expedite Order Charge - per location /EODEO/	300.00	--
(AT)	Service Order Change Charge - applies to Bandwidth Usage Changes, EVC Changes and Configuration Changes for pending, initial service orders, per location /NHCEO/	75.00	--
(AT)	Miscellaneous Change Charge - applies to Bandwidth Usage Changes, EVC Changes and Configuration Changes for subsequent changes to existing service, per location /NHCEN/	100.00	--

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

5. RATES AND CHARGES (cont'd)

Description	Nonrecurring Charge	Monthly Price
Optional Charges (cont'd)		
Ethernet Virtual Connection (EVC)		
- per connection	$ 70.00	$ 25.00
Inter-Switch Trunk Charge		
- per trunk	2,000.00	4,000.00
Additional MAC Addresses		
- 51-100 MAC addresses	70.00	5.00
Service Order Cancellation		
- per location	200.00	--
Expedite Order Charge		
- per location	300.00	--
Service Order Change Charge		
- applies to Bandwidth Usage Changes, EVC Changes and Configuration Changes for pending, initial service orders, per location	75.00	--
Miscellaneous Change Charge		
- applies to Bandwidth Usage Changes, EVC Changes and Configuration Changes for subsequent changes to existing service, per location	100.00	--

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

6. TERM PRICING PLAN (TPP)

(CP) 6.1 The TPP provides for 36- or 60-month rate stabilization. Decreases in term monthly recurring tariff rates will be passed on to customers who participate in a TPP. Should the Company increase its rates during the TPP period, the customer would continue to pay the rates in effect at the time the customer elected to establish service under the TPP.

6.2 The customer may choose to terminate an existing TPP before the end of the 36- or 60-month period and negotiate a new 36- or 60-month TPP. The new TPP must be based upon the rates that are currently in effect and available to all customers.

6.3 The customer must provide the Company with a written notice of intent to renew a TPP no later than 90 days prior to its expiration. If the customer elects not to renew the TPP, or does not notify the Company of the customer's intent to renew the TPP, the service will automatically be billed under the tariffed monthly extension rates in effect at the time that TPP expires. Subsequently, customers under the tariffed monthly extension rates may convert their existing service to either a 36- or 60-month TPP. Nonrecurring charges will be waived at the time of conversion.

6.4 Any Special Construction charges incurred for services billed under a TPP will be applicable as provided for in 1.4.4 of this tariff.

6.5 If the customer terminates the TPP agreement prior to the expiration of the 36- or 60-month service term, the customer shall pay a termination charge. Payment of the termination charge does not release the customer from other previous amounts owed to the Company. In addition to any unpaid Special Construction or nonrecurring charges (excluding any waived charges), Termination Charges will be equal to:

- Fifty percent (50%) of all recurring charges for the remaining months of the customer's term.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

6. TERM PRICING PLAN (TPP)

6.1 The TPP provides for 36- or 60-month rate stabilization. Decreases in term monthly recurring tariff rates will be passed on to customers who participate in a TPP. The Company will notify customers participating in a TPP when term monthly recurring rates are decreased.

Should the Company increase its rates during the TPP period, the customer would continue to pay the rates in effect at the time the customer elected to establish service under the TPP.

6.2 The customer may choose to terminate an existing TPP before the end of the 36- or 60-month period and negotiate a new 36- or 60-month TPP. The new TPP must be based upon the rates that are currently in effect and available to all customers.

6.3 The customer must provide the Company with a written notice of intent to renew a TPP no later than 90 days prior to its expiration. If the customer elects not to renew the TPP, or does not notify the Company of the customer's intent to renew the TPP, the service will automatically be billed under the tariffed monthly extension rates in effect at the time that TPP expires. Subsequently, customers under the tariffed monthly extension rates may convert their existing service to either a 36- or 60-month TPP. Nonrecurring charges will be waived at the time of conversion.

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- Fifty percent (50%) of all recurring charges for the remaining months of the customer's term.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

6. TERM PRICING PLAN (TPP) (cont'd)

6.6 Customers may move their existing service to a new location without incurring Termination Charges provided all of the following conditions are met:

- The customer maintains the existing TPP at the new location or establishes a new TPP equal to or greater than the old location;
- During the TPP, a customer may move a CSME Service location to another premises in the same LATA and keep the TPP in force without assessment of Termination Charges, provided no lapse in billing occurs;
- The customer's request for disconnect at the existing location and the request for service at the new location are received at the same time, and the customer's disconnect order for the existing service references the new connect order for the new service;
- Moves of one location to a premise in a different serving office may result in a change in the monthly charges. Nonrecurring charges as appropriate are applicable;
- If the customer moves more than one location of the service concurrently, the customer will be liable for Termination Charges, as this is considered a complete disconnect of the service.

CUSTOMIZED SWITCHED METRO ETHERNET (CSME) SERVICE

6. Term Pricing Plan (TPP) (cont'd)

6.7 Customers will be permitted to upgrade from CSME Service to OPT-E-MAN® Service, without incurring Termination Charges, given all the following conditions are met:

- The customer must issue a disconnect order for the existing CSME locations and place a new service order for OPT-E-MAN Service at the same locations. Termination Charges for CSME Service at the current locations will be waived.
- The term of the new OPT-E-MAN Service contract must be equal to or greater than the remaining time left on the existing CSME contract.
- The existing CSME Service must have been in service for a minimum period of 15 months for a 3-year contract or 18 months for a 5-year contract.
- Upgrades are contingent on availability of fiber from premises to premises, and the availability of OPT-E-MAN Service in the serving area. Other Special Construction charges, as necessary, may apply.
- The customer's network configuration must remain the same (i.e. multipoint CSME to multipoint OPT-E-MAN). The number of OPT-E-MAN locations must be greater than or equal to the current number of CSME locations.
- A minimum of 50% of the connection speed for each individual connection must be maintained:

  - If customer has a 1 Gbps CSME connection, then customer must purchase a minimum 500 Mbps OPT-E-MAN connection
  - If customer has a 100 Mbps CSME connection, then customer must purchase a minimum 50 Mbps OPT-E-MAN connection
  - If customer has a 10 Mbps CSME connection, then customer must purchase a minimum 5 Mbps OPT-E-MAN connection