B109. OBSOLETE SERVICE OFFERINGS – OPTICAL NETWORK SERVICE

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B109. OBSOLETE SERVICE OFFERINGS – OPTICAL NETWORK SERVICE

B109.1 BellSouth Wavelength Service (Dedicated Ring Arrangement)

(Obsoleted 12-31-07, Type 4; BellSouth Wavelength service Dual Bay service capabilities are not available for new installations, moves or transfers. Existing Dual Bay service arrangement customers may continue to add Dual Bay Expansion Systems and Wavelength Channels up to the capacity of their existing arrangement.)

(Obsoleted 12-31-07), Type 4; 1.25 Gbps Transparent Transport and 2.5 Gbps Transparent Transport Wavelength Channels are available for use only with Dedicated Ring Service Arrangements that are in place as of the obsolescence date. Existing customers may continue to add these services up to the capacity of their Dedicated Ring Service Arrangements.)

(Obsoleted 12-1-12), Type 4; BellSouth Wavelength Service Dedicated Ring Arrangements are not available for new installations. Existing Dedicated Ring Arrangement customers will be permitted to modify their service by adding new circuits to their existing service, but will not be permitted to add new nodes in new locations. New circuits added to existing locations will utilize the customer's existing Channel Services Payment Plan (CSPP) and should be coterminous with the customer's existing CSPP. Customers with CSPPs that expire may not extend their service contract. In addition, effective December 1, 2016, no Move, Add or Change orders of any type will be accepted.

B109.1.1 General

A. Obsoleted BellSouth Wavelength service provides high volume optical transport capabilities utilizing a dedicated ring topology. Obsoleted BellSouth Wavelength service is available in one (1) service arrangement, i.e., a Dedicated Ring Arrangement. This service arrangement provides various transparent transport and bit rate specific wavelength channel service capabilities to support customer needs for broadband connectivity.

B. Reserved for future use.

C. The BellSouth Wavelength service Dedicated Ring Arrangement provides dedicated bandwidth over dedicated facilities in a ring topology service configuration. A BellSouth Wavelength service Dedicated Ring Arrangement provides the capability for customers to activate wavelength channels between Service Node locations on the ring. A Service Node location is a location where equipment is located that provides customers add/drop connectivity to a BellSouth Wavelength service Dedicated Ring Arrangement via Primary System and Expansion System service components. These service components are considered ring level and contain the fiber transport associated with the service. A minimum of two (2) Service Node locations is required for a BellSouth Wavelength service Dedicated Ring Arrangement. This minimum configuration may be Service Nodes at either a customer-designated premises and a Company serving wire center, at two (2) Company serving wire centers or at two (2) customer-designated premises. Additional Service Node locations at customer-designated premises and/or at Company serving wire centers may be established, up to the limitation of the service. BellSouth Wavelength service Dedicated Ring Arrangement Wavelength Channels are available for the activation of wavelengths between Service Node locations. (T)

For BellSouth Wavelength Service Dedicated Ring Arrangements with Service Node locations only at customer designated premises, a Monitoring Node may be required at a Company Central Office in order to assure proper operation of a customer's service and provide alarming/monitoring capability. A Monitoring Node does not contain the capability to add or drop services and will be provided at no additional charge to the customer. A Monitoring Node will appear on a customer's records as a non-rated USOC, as follows: (T)

	USOC
Monitoring Node, non-rated	W32MN

BellSouth Wavelength service Dedicated Ring Arrangements are available with Dual Bay service capabilities. A Dual Bay arrangement allows the customer to activate up to 32 wavelengths between adjacent Service Node locations. Dual Bay service configurations have Primary System and Expansion System service components that apply on a per physical bay basis. Dual Bay service components are a Primary System – Dual Bay and Expansion System – Dual Bay.

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B109.1 (DELETED) (Cont'd) (D)

B109. OBSOLETE SERVICE OFFERINGS – OPTICAL NETWORK SERVICE

B109.1 BellSouth Wavelength (Dedicated Ring Arrangement) (Cont'd)

B109.1.1 General (Cont'd)

D. (Cont'd)

The general description of the Wavelength Channels is as shown below. Detailed transport specifications, capabilities and line rates are described in TR 73630 BT.

- 1.25 Gbps Transparent Transport – provides a fiber based transport interface
- 2.5 Gbps Transparent Transport – provides a fiber based transport interface
- 10G WAN-PHY Wavelength Transport – a version of Ethernet with a WAN-PHY only interface.
- 10G LAN-PHY Wavelength Transport – a version of Ethernet with a LAN-PHY only interface.
- OC-3 Wavelength Transport – provides fiber based synchronous optical full duplex data transmission capability and a transparent data communications channel.
- OC-12 Wavelength Transport – provides fiber based synchronous optical full duplex data transmission capability and a transparent data communications channel.
- OC-48 Wavelength Transport – provides fiber based synchronous optical full duplex data transmission capability and a transparent data communications channel.
- OC-192 Wavelength Transport – provides fiber based synchronous optical full duplex data transmission capability and a transparent data communications channel.
- ESCON™ /SBCON Wavelength Transport – Enterprise Systems Connection / Single Byte command code sets Connection. ESCON is an IBM duplex optical connection used for computer-to-computer data exchange. SBCON is the industry standard equivalent to IBM ESCON.
- FICON™ and FICON™ Express Wavelength Transport – An IBM higher-speed evolution of ESCON™, enabling connectivity among mainframes, storage devices and peripherals.
- Fibre Channel 100 and Fibre Channel 200 Wavelength Transport – An industry standard protocol used to interconnect Storage Area Networks (SANs).
- Fast Ethernet Wavelength Transport – a version of Ethernet.
- Gigabit Ethernet (1 Gbps) Wavelength Transport – a version of Ethernet.

The Company will install, test and verify that Wavelength Channels can be carried and transmitted from network interface to network interface. BellSouth Wavelength service Wavelength Channels do not provide protocol functionality, they only provide a transport for the protocol. (T)

E. The compatibility requirements and technical specifications (including Channel Network Protection and Optical Network Protection) for BellSouth Wavelength service are as shown in technical reference TR-73630 BT.

F. Wavelength Channels with time delay sensitive protocols, as identified in TR-73630 BT, have facility length limitations and may not be available on some BellSouth Wavelength service Dedicated Ring Arrangements, or may not be available between some nodes on certain BellSouth Wavelength service Dedicated Ring Arrangements.

G. The customer must provide suitable floor space, controlled environment, and source of non-switched suitable power to support this service.

H. Where the customer provides two separate entrance facility cable routes BellSouth Wavelength service, the primary and alternate facilities will be separate and will enter the customer location, at the initial installation of the service, over such different routes. Request for separate entrance facilities to a customer location, subsequent to installation of the service, shall be accommodated via a Special Construction request.

I. BellSouth Wavelength 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.

J. Reserved for future use.

B109. OBSOLETE SERVICE OFFERINGS – OPTICAL NETWORK SERVICE

B109.1 (DELETED) (Cont'd) (D)

B109. OBSOLETE SERVICE OFFERINGS – OPTICAL NETWORK SERVICE

B109.1 BellSouth Wavelength (Dedicated Ring Arrangement) (Cont'd)

B109.1.2 Application of Rates

A. BellSouth Wavelength service Basic Arrangement Wavelength Channels are available for point-to-point applications between two customer premises or for connection of a customer's premises to his BellSouth Wavelength service Dedicated Ring Arrangement in a Company central office.

B. For Basic Arrangement Wavelength Channels with Channel Network Protection, two (2) Unprotected Wavelength Local Channels and/or Interoffice Channels are configured as primary and secondary wavelengths between a customer's premises. The primary and secondary wavelengths utilize Channel Network Protection – Primary Wavelength and Channel Network Protection – Secondary Wavelength service components to provide network protection and apply per customer premise requested with network protection.

C. BellSouth Wavelength service Dedicated Ring Arrangement service components are a Primary System, Expansion System, Dedicated Ring Wavelength Channels, Optical Signal Amplification Node and Monitoring Node.

D. Prior to December 31, 2007, Primary System and Expansion System service components were further classified as Single Bay and Dual Bay, depending on the arrangement ordered by a customer. The Single Bay arrangement allowed the customer to activate up to 16 wavelengths between adjacent Service Node locations. The Dual Bay arrangement allowed the customer to activate up to 32 wavelengths between adjacent Service Node locations. The quantity of activated wavelengths is dependent upon a customer's application of Unprotected, Client Protected and/or Optical Network Protected Wavelength Channels. Optical Network Protected Wavelength Channels are available for transport between two (2) customer premise Service Node locations on a Dedicated Ring Arrangement or for transport between a customer premise Service Node location and a Company serving wire center Service Node where they may only connect to another BellSouth Wavelength service Dedicated Ring Arrangement. (T)

E. Effective December 31, 2007, Dual Bay service components are obsoleted. Also, Primary System - Single Bay and Expansion System – Single Bay service components are being reclassified as Primary System and Expansion System, respectively. With this reclassification, a BellSouth Wavelength service Dedicated Ring Arrangement installed on or after December 31, 2007, will have the capability for a customer to activate wavelengths between adjacent Service Node locations via a Primary System and Expansion Systems. The quantity of wavelengths that may be activated is as described in Technical Reference TP 73630 BT. This quantity of activated wavelengths is dependent upon a customer's application of Unprotected, Client Protected and/or Optical Network Protected Wavelength Channels. Optical Network Protected Wavelength Channels are available for transport between two (2) customer premise Service Node locations on a Dedicated Ring Arrangement or for transport between a customer premise Service Node location and a Company serving wire center Service Node where they may only connect to another BellSouth Wavelength service Dedicated Ring Arrangement.

F. Prior to December 31, 2007, wavelengths are activated at Service Node locations on a BellSouth Wavelength service Dedicated Ring Arrangement Dual Bay arrangement via Primary System - Dual Bay and Expansion System - Dual Bay service components. Two Primary System – Dual Bay service components apply per Service Node location in the dual bay configuration and have the capability to activate up to 8 east and west wavelengths leaving a Service Node location. Once the capability of the Primary System - Dual Bay service components are utilized, in order to activate additional wavelengths, Expansion System – Dual Bay service components are required at each Service Node location on the ring. A Dual Bay Expansion System is comprised of two (2) Expansion System – Dual Bay service components per Service Node location on a ring and provides the capability to activate up to 8 east and west leaving a Service Node location. Three (3) Dual Bay Expansion Systems may be added to Primary System - Dual Bay service components to provide the total capability of a Dual Bay service configuration.

G. Effective December 31, 2007, with the reclassification of Single Bay service components as described above, wavelengths are activated at Service Node locations on a BellSouth Wavelength service Dedicated Ring Arrangement via Primary System and Expansion System service components. The Primary System service component applies at each Service Node location on a customer's ring, and provides the capability to activate up to 8 wavelengths east and west leaving a Service Node location. The Expansion System service component provides the capability to activate up to 8 east and west wavelengths leaving a Service Node location. The quantity of Expansion Systems that are available for use with a Primary System at a Node Location, are as described in Technical Reference TR 73630 BT.

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B109.1 (DELETED) (Cont'd) (D)

B109. OBSOLETE SERVICE OFFERINGS – OPTICAL NETWORK SERVICE

B109.1 BellSouth Wavelength (Dedicated Ring Arrangement) (Cont'd)

B109.1.2 Application of Rates (Cont'd)

H. Reserved for future use.

I. BellSouth Wavelength service Dedicated Ring Arrangement Wavelength Channel rates and charges apply for the wavelengths activated between Service Node locations on the ring.

J. The Optical Signal Amplification Node applies per location requiring amplification to meet the services transmission requirements. Optical Signal Amplification Nodes will be specified on the service inquiry and billed accordingly.

K. In order to accommodate more flexible customer situations, BellSouth Wavelength service arrangements are available under several payment plans: Month-to-Month, 36 Month Term Payment Plan (24-48 months), 60 Month Term Payment Plan (49-72 months), or 84 Month Term Payment Plan (73-96 months). The month-to-month service arrangement is only available upon completion of a Channel Services Payment Plan agreement. The 36, 60, and 84 Month Term Payment Plans are provided under conditions specified in the Channel Services Payment Plan, (CSPP), B2.4.9 preceding, except as modified following. For all payment plans, the following terms and conditions apply: (T)

1. All Primary System and Expansion System rate elements associated with a BellSouth Wavelength service Dedicated Ring Arrangement, whether ordered initially or subsequent to the initial installation, must be provided under the same CSPP payment plan with the same service period and are coterminous upon disconnect of the BellSouth Wavelength service.
2. The minimum service period for BellSouth Wavelength service components is 24 months.
3. BellSouth Wavelength service wavelength channels must initially be provided under a CSPP service arrangement. BellSouth Wavelength service wavelength channels associated with a BellSouth Wavelength service Dedicated Ring Arrangement are not required to be under the same CSPP payment plan or service period as their associated BellSouth Wavelength service Dedicated Ring Arrangement
4. The rates applicable to a month-to-month payment plan are subject to Company initiated changes.
5. A termination liability charge will be applicable if services provided under a CSPP arrangement are disconnected prior to the end of the chosen service period. The applicable charge is equal to the number of months remaining in the rate stabilized service period times fifty percent (50%) of the monthly rates for BellSouth Wavelength service which include all service components under the CSPP arrangement.
6. When a service period under an existing CSPP arrangement is completed and a customer elects to revert to a month-to-month payment option, no minimum period is applicable. If the customer does not select a new payment period or does not request discontinuance of service, service will be continued under the terms specified in B2.4.
7. Each BellSouth Wavelength service Basic Arrangement wavelength channel is an individual standalone payment plan, independent of any other BellSouth Wavelength service payment plan subscribed to by a customer.
8. Termination liability charges will not apply to BellSouth Wavelength Service under the following circumstances, as long as the total number of nodes does not decrease for an existing customer:
   - Disconnects of channel interfaces associated with BellSouth Wavelength Service
   - Disconnects, moves or rearrangements involving the removal of the following BellSouth Wavelength service rate elements to allow the placement of additional nodes and channels: Primary System, Expansion System or Wavelength Channels

L. When Wavelength Channels are setup in a Client Protection arrangement, there is no charge for establishing Client Protection if it is setup at the time the associated Wavelength Channels are activated. If Client Protection is established on Wavelength Channels subsequent to their activation, a Client Protection Rearrangement Charge applies per existing Wavelength Channel configured for Client Protection. This charge would also apply if a customer has Client Protection existing and wants to rearrange the Wavelength Channels associated with the existing Client Protection arrangement. Also, if a customer removes channels from an existing Client Protection arrangement, the Client Protection Rearrangement Charge applies to the Wavelength Channel(s) that are removed from the Client Protection arrangement, unless both the Wavelength Channels are disconnected.

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B109.1 (DELETED) (Cont'd) (D)

B109. OBSOLETE SERVICE OFFERINGS - OPTICAL NETWORK SERVICE

B109.1 BellSouth Wavelength Service (Dedicated Ring Arrangement) (Cont'd)

B109.1.3 Rates and Charges (Cont'd)

B. BellSouth Wavelength service Dedicated Ring Arrangement (Cont'd)

3. Wavelength Channel (Cont'd)

		Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC
(p)	Per 1.25 Gbps Transparent Transport Optical Network Protected[1]	$2,000.00	$5,916.00	$4,548.00	$3,953.00	$3,400.00	W32DB
(q)	Per 2.5 Gbps Transparent Transport Optical Network Protected[1]	2,500.00	10,557.00	8,118.00	7,055.00	6,137.00	W32DD
(r)	Per 10 Gbps WAN Wavelength Transport Optical Network Protected[1]	3,000.00	19,873.00	15,283.00	13,294.00	11,560.00	W32DF
(s)	Per 10 Gbps LAN Wavelength Transport Optical Network Protected[1]	3,000.00	19,873.00	15,283.00	13,294.00	11,560.00	W32DH
(t)	Per OC-3 Wavelength Transport Optical Network Protected[1]	2,000.00	5,160.00	3,434.00	2,992.00	2,601.00	W32DK
(u)	Per OC-12 Wavelength Transport Optical Network Protected[1]	2,000.00	5,916.00	4,548.00	3,953.00	3,400.00	W32DM
(v)	Per OC-48 Wavelength Transport Optical Network Protected[1]	2,500.00	10,557.00	8,118.00	7,055.00	6,137.00	W32DO
(w)	Per OC-192 Wavelength Transport Optical Network Protected[1]	3,000.00	19,873.00	15,283.00	13,294.00	11,560.00	W32DQ
(x)	Per Gigabit Ethernet at 1 Gbps Wavelength Transport Optical Network Protected[1]	2,000.00	5,296.00	4,072.00	3,545.00	3,060.00	W32DS
(y)	Per Fibre Channel 100 Wavelength Transport Optical Network Protected[1]	2,000.00	5,296.00	4,072.00	3,545.00	3,060.00	W32DU
(z)	Per Fibre Channel 200 Wavelength Transport Optical Network Protected[1]	2,500.00	9,503.00	7,310.00	6,358.00	5,525.00	W32DW
(aa)	Per Fast Ethernet at 100 Mbps Wavelength Transport Optical Network Protected[1]	2,000.00	2,882.00	2,219.00	1,930.00	1,683.00	W32DY
(ab)	Per Fibre Connection™ Channel Wavelength Transport Optical Network Protected[1]	2,000.00	5,296.00	4,072.00	3,545.00	3,060.00	W32D1
(ac)	Per Fibre Connection™ Express Channel Wavelength Transport Optical Network Protected[1]	2,500.00	9,503.00	7,310.00	6,358.00	5,525.00	W32D3
(ad)	Per Enterprise System Connection™ - SBCON Channel Wavelength Transport Optical Network Protected[1]	2,000.00	2,992.00	2,304.00	1,998.00	1,743.00	W32D5

4. Amplification

(a)	Optical Signal Amplification Node, Per Node	2,000.00	3,440.00	2,645.00	2,300.00	2,000.00	W32RE

C. BellSouth Wavelength service Client Protection Rearrangement Charge

(a)	Client Protection Rearrangement Charge Subsequent to initial installation	1,500.00	-	-	-	-	CPROT

Note 1: Optical Network Protected Wavelength Channels are available for transport between two (2) customer premise Service Node locations on a Dedicated Ring Arrangement or for transport between a customer premise Service Node location and a Company serving wire center Service Node where they may connect to another BellSouth Wavelength service Dedicated Ring Arrangement or to BellSouth Wavelength service Basic Arrangement Unprotected wavelength channels that are not configured with Channel Network Protection. (T)