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## B9. OPTICAL NETWORK SERVICE

### CONTENTS

<b>B9.1 BellSouth Wavelength Service (Basic Arrangement)</b>	1	(C)
B9.1.1 General	1	
B9.1.2 Application of Rates	4	
B9.1.3 Rates and Charges	6	

## B9. OPTICAL NETWORK SERVICE

### B9.1 BellSouth Wavelength Service (Basic Arrangement)

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#### B9.1.1 General

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

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B. The BellSouth Wavelength service Basic Arrangement provides dedicated bandwidth over shared facilities in point-to-point service configurations. The BellSouth Wavelength service Basic Arrangement provides the capability for customers to subscribe to individual transparent transport and bit rate specific Wavelength Channels, as identified in D. following, between two customer premises or between a customer premise and the primary serving Central Office of the customer premises. The BellSouth Wavelength service Basic Arrangement between two customer premise locations will be routed through a Company Central Office for purposes of alarming and monitoring the service.

BellSouth Wavelength service Basic Arrangement is available with Unprotected Wavelength Channels. BellSouth Wavelength service Basic Arrangement Unprotected Wavelength Channels may be configured in a Client Protection arrangement or with Channel Network Protection. With Client Protection, two (2) Unprotected Wavelength Channels interconnect with a customer's equipment to provide a level of protection for a customer's service. Customer provided equipment shall provide required switching between wavelength channels in a Client Protection arrangement. With Channel Network Protection, two (2) Unprotected Basic Arrangement Wavelength Channels are utilized in conjunction with Company equipment at a customer's premises to provide a level of survivability for a customer's service in case of a failure associated with one of the two (2) Unprotected Wavelength Channels.

C. *Reserved for future use.*

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## B9. OPTICAL NETWORK SERVICE

### B9.1 BellSouth Wavelength Service (Basic Arrangement) (Cont'd)

#### B9.1.1 General (Cont'd)

D. The various Wavelength Channels that are available via a BellSouth Wavelength service Basic Arrangement are as follows:

<u>Wavelength Channels</u>	<u>Basic Arrangement</u>
1.25 Gbps Transparent Transport	X
2.5 Gbps Transparent Transport	X
10 Gbps WAN Wavelength Transport	X
10 Gbps LAN Wavelength Transport	X
Gigabit Ethernet at 1 Gbps Wavelength Transport	X
OC-3 Wavelength Transport	X
OC-12 Wavelength Transport	X
OC-48 Wavelength Transport	X
OC-192 Wavelength Transport	X
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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.
- Gigabit Ethernet at 1 Gbps Wavelength Transport – a version of Ethernet that transports data signals at the rate of 1 gigabit per second.
- 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.

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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.

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## B9. OPTICAL NETWORK SERVICE

## B9.1 BellSouth Wavelength Service (Basic Arrangement) (Cont'd)

## B9.1.1 General (Cont'd)

D. (Cont'd)

- 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.

(Obsoleted, See Section B109)

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.

- 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. (Obsoleted, See Section B109)
- 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.
- K. Neither electrical interfaces nor optical add/drop multiplexing are available with BellSouth Wavelength service.
- L. The customer is responsible to ensure that customer provided CPE meets any applicable technical requirements or limitations for the protocol used for the connection to the BellSouth Wavelength Service.
- M. (Obsoleted, See Section B109)
- N. A BellSouth Wavelength service Basic Arrangement Wavelength Interoffice Channel must have a connection to a Basic Arrangement Wavelength Local Channel, to a BellSouth Wavelength service Dedicated Ring Arrangement wavelength channel or to LightGate service or SMARTRing service where LightGate service or SMARTRing service interfaces are compatible with a wavelength channel.
- O. When BellSouth Wavelength service is requested at locations where fiber facilities are not available to satisfy customer requests, special construction charges will apply as set forth in Section B5., preceding.

Note 1: Effective December 1, 2012, BellSouth Wavelength Service Dedicated Ring Arrangements are obsolete, see Section B109.

## **B9. OPTICAL NETWORK SERVICE**

### **B9.1 BellSouth Wavelength Service (Basic Arrangement) (Cont'd)**

#### **B9.1.1 General (Cont'd)**

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## B9. OPTICAL NETWORK SERVICE

### B9.1 BellSouth Wavelength Service (Basic Arrangement) (Cont'd)

#### B9.1.2 Application of Rates

- A. BellSouth Wavelength service Basic Arrangement Wavelength Channels are available for point-to point applications between two customer premises. BellSouth Wavelength service Basic Arrangement service components are a Wavelength Local Channel and Wavelength Interoffice Channel. The Wavelength Local Channel rate element provides service between a customer's premises and the local Company central office. The Wavelength Interoffice Channel rate element provides service between Company central offices. (C)
- 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. (D)

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## **B9. OPTICAL NETWORK SERVICE**

### **B9.1 BellSouth Wavelength Service (Basic Arrangement) (Cont'd)**

#### **B9.1.2 Application of Rates (Cont'd)**

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## B9. OPTICAL NETWORK SERVICE

## B9.1 BellSouth Wavelength Service (Basic Arrangement) (Cont'd)

## B9.1.2 Application of Rates (Cont'd)

H. (Obsoleted, See Section B109)

I. (Obsoleted, See Section B109)

J. In order to accommodate more flexible customer situations, BellSouth Wavelength service arrangements are available under several payment plans: M month-to-M month, 36 M month Term Payment Plan (24-48 months)<sup>1</sup>, 60 M month Term Payment Plan (49-72 months)<sup>1</sup>, or 84 M month Term Payment Plan (73-96 months)<sup>1</sup>. The month-to-month service arrangement is only available upon completion of a Channel Services Payment Plan agreement. The 36, 60, and 84 M month Term Payment Plans<sup>1</sup> 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:

1. (Obsoleted, See Section B109)

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<sup>2</sup> 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. (Obsoleted, See Section B109)

K. 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.

Note 1: As of October 1, 2013, payment periods greater than 36 months are no longer available for new or renewing subscribers.

Note 2: Effective December 1, 2012, BellSouth Wavelength Service Dedicated Ring Arrangements are obsolete, see Section B109.

## B9. OPTICAL NETWORK SERVICE

### B9.1 BellSouth Wavelength Service (Basic Arrangement) (Cont'd)

#### B9.1.2 Application of Rates (Cont'd)

##### L. Migration to AT&T Dedicated Ethernet

Customers subscribing to BellSouth Wavelength service may migrate to AT&T Dedicated Ethernet provided by the Company without incurring Termination Charges, subject to the following conditions:

1. The new AT&T Dedicated Ethernet and the existing BellSouth Wavelength service must be billed to the same customer of record at the same customer locations. (N)
2. The customer's existing service must have been in place for at least 12 months. (N)
3. The minimum term for the new service must be at least 12 months and must be equal to or greater than the number of months remaining in the customer's existing Channel Services Payment Plan (CSPP) term. (N)
4. The speed (capacity/bandwidth) of the new service must be equal to or greater than that of the existing service. (N)
5. The customer must issue a disconnect order for the replaced BellSouth Wavelength service to be effective within 90 days after the AT&T Dedicated Ethernet installation date. The disconnect and new orders must be coordinated through the Company. (N)
6. If overlapping service is required, the period will be limited to not more than 90 days and billing will apply to both services during the time both services are available. (N)

## B9. OPTICAL NETWORK SERVICE

### B9.1 BellSouth Wavelength Service (Basic Arrangement) (Cont'd)

#### B9.1.3 Rates and Charges

##### A. BellSouth Wavelength service Basic Arrangement

###### 1. Wavelength Local Channel

		Nonrecurring Charge	Month to Month	24 to 48 <sup>2</sup> Months	49 to 72 <sup>2</sup> Months	73 to 96 <sup>2</sup> Months	(C) USOC
(a)	Per 1.25 Gbps Transparent Transport Unprotected	\$1,000.00	\$2,085.00	\$1,605.00	\$1,395.00	\$1,215.00	W32BA
(b)	Per 2.5 Gbps Transparent Transport Unprotected	1,000.00	3,570.00	2,975.00	2,590.00	2,250.00	W32BC
(c)	Per OC-3 Wavelength Transport Unprotected	1,000.00	1,645.00	1,265.00	1,098.00	955.00	W32B1
(d)	Per OC-12 Wavelength Transport Unprotected	1,000.00	2,085.00	1,605.00	1,395.00	1,215.00	W32B3
(e)	Per OC-48 Wavelength Transport Unprotected	1,000.00	3,570.00	2,975.00	2,590.00	2,250.00	W32B5
(f)	Per OC-192 Wavelength Transport Unprotected	1,500.00	7,495.00	6,250.00	5,430.00	4,725.00	W32BE
(g)	Per 10 Gbps WAN Wavelength Transport Unprotected	1,500.00	7,495.00	6,250.00	5,430.00	4,725.00	W32BG
(h)	Per Gigabit Ethernet at 1 Gbps Wavelength Transport Unprotected	1,000.00	2,085.00	1,605.00	1,395.00	1,215.00	WDCCS
(i)	Per 10 Gbps LAN Wavelength Transport Unprotected	1,500.00	7,495.00	6,250.00	5,430.00	4,725.00	W32B9

###### 2. Wavelength Interoffice Channel

(a)	Per 1.25 Gbps Transparent Transport Unprotected	1,000.00	4,390.00	3,375.00	2,934.00	2,550.00	W32BJ
(b)	Per 2.5 Gbps Transparent Transport Unprotected	1,000.00	4,660.00	4,050.00	3,520.00	3,060.00	W32BL
(c)	Per OC-3 Wavelength Transport Unprotected	1,000.00	3,380.00	2,600.00	2,260.00	1,965.00	W32BR
(d)	Per OC-12 Wavelength Transport Unprotected	1,000.00	4,390.00	3,375.00	2,934.00	2,550.00	W32BT
(e)	Per OC-48 Wavelength Transport Unprotected	1,000.00	4,660.00	4,050.00	3,520.00	3,060.00	W32BV
(f)	Per OC-192 Wavelength Transport Unprotected	1,500.00	6,060.00	5,270.00	4,580.00	3,980.00	W32BN
(g)	Per 10 Gbps WAN Wavelength Transport Unprotected	1,500.00	6,060.00	5,270.00	4,580.00	3,980.00	W32BP
(h)	Per Gigabit Ethernet at 1 Gbps Wavelength Transport Unprotected	1,000.00	3,470.00	2,670.00	2,345.00	2,040.00	W32BX
(i)	Per 10 Gbps LAN Wavelength Transport Unprotected	1,500.00	6,060.00	5,270.00	4,580.00	3,980.00	W32BZ

###### 3. Channel Network Protection<sup>1</sup>

(a)	Per Primary Wavelength	300.00	535.00	355.00	285.00	250.00	W32PP
(b)	Per Secondary Wavelength	300.00	535.00	355.00	285.00	250.00	W32PS

**Note 1:** Channel Network Protection Primary Wavelength and Secondary Wavelength service components apply per BellSouth Wavelength service Basic Arrangement Wavelength Local Channel, per customer premises configured with Channel Network Protection.

**Note 2:** As of October 1, 2013, payment periods greater than 36 months are no longer available for new or renewing subscribers. (N)

## **B9. OPTICAL NETWORK SERVICE**

### **B9.1 BellSouth Wavelength Service (Basic Arrangement) (Cont'd)**

#### **B9.1.3 Rates and Charges (Cont'd)**

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## B9. OPTICAL NETWORK SERVICE

### B9.1 BellSouth Wavelength Service (Basic Arrangement) (Cont'd)

#### B9.1.3 Rates and Charges (Cont'd)

C. BellSouth Wavelength service Client Protection Rearrangement Charge

	Nonrecurring Charge	Month to Month	24 to 48 <sup>1</sup> Months	49 to 72 <sup>1</sup> Months	73 to 96 <sup>1</sup> Months	USOC CProt
(a) Client Protection Rearrangement Charge Subsequent to initial installation	\$1,500.00					

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(D)

**Note 1:** As of October 1, 2013, payment periods greater than 36 months are no longer available for new or renewing subscribers.