

BELLSOUTH TELECOMMUNICATIONS, INC.
 BY: Operations Manager - Pricing
 29G57, 675 W. Peachtree St., N.E.
 Atlanta, Georgia 30375
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TARIFF F.C.C. NO. 1
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ACCESS SERVICE

29 – Optical Transport Access Services

29.1 BellSouth Wavelength Service

29.1.1 General Description

- (A) Effective July 23, 2005 BellSouth Wavelength Service will not be available for new customer orders. As of this date, new customer request for point-to-point 1.25 Gbps and 2.5 Gbps Wavelength Channels may be ordered as a part of BellSouth Wavelength Channel service, as described in 29.4 following. Existing BellSouth Wavelength Service arrangements may remain in place or they may be converted to a BellSouth Wavelength Channel service arrangement without termination liability. (N)
- (B) BellSouth Wavelength Service provides high volume optical transport in a point-to-point configuration. BellSouth Wavelength Service provides a customer with a solution that provides a transparent optical transport that supports a minimum and maximum bandwidth per optical signal. BellSouth Wavelength service is capable of transporting digital optical signals at industry standard data speeds such as 100 Mbps, 200 Mbps, 270 Mbps, 1.0625 Gbps, 1.25 Gbps and SONET speeds such as 52 Mbps, 155 Mbps, 622 Mbps and 2.5 Gbps. (T)
- (C) BellSouth Wavelength Service is available in two maximum transmission speeds: 100 Mbps to 1.25 Gbps and 52 Mbps to 2.5 Gbps. The following chart lists the interfaces available and examples of the customer generated digital optical signals that can be transported for each speed: (T)

| <u>Bandwidth</u> | <u>Interface to customer (Wavelength in nm)</u> | <u>Type of Fiber</u> | <u>Example Speeds of Customer generated digital signals transported:</u> |
|-----------------------|---|--------------------------------|---|
| 100 Mbps to 1.25 Gbps | 850 nm | Multimode; 2-fiber interface | 100 Mbps, 200 Mbps, 1.0625 Gbps, 1.25 Gbps |
| 52 Mbps to 2.5 Gbps | 1310 nm, 1550 nm, Single ITU Grid (up to 1580 nm) | Single Mode; 2-fiber interface | 52 Mbps, 100 Mbps, 155 Mbps, 200 Mbps, 270 Mbps, 622 Mbps, 1.0625 Gbps, 1.25 Gbps, 2.5 Gbps |

- (D) It is the customer's responsibility to inform BellSouth which type of interface they require. (T)
- (E) Electrical interfaces and multiplexing functions are not available with this service. Transport of a customer-generated SONET optical signal is supported; however, SONET functionality is not supported with this service. (T)
- (F) BellSouth Wavelength Service is furnished where suitable facilities are available as determined by the Telephone Company. (T)

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29 – Optical Transport Access Services

29.4 BellSouth Wavelength Channel Service

29.4.1 General Description

- (A) BellSouth Wavelength Channel service provides high volume transparent and bit rate specific optical transport capabilities in a point-to-point configuration. BellSouth Wavelength Channel service is available as individual stand-alone Wavelength Channels or via a Dedicated System, which provides various transport capabilities between a customer location and it's normal Telephone Company Central Office. BellSouth Wavelength Channel service contains wavelength local channel and interoffice channels for use in individual stand-alone Wavelength Channel service arrangements or for use in extending Dedicated System wavelength channels to locations beyond the customer's normal Telephone Company Central Office. The origination and termination points of Wavelength Channels will affect the design and/or availability of BellSouth Wavelength Channel service, or its Wavelength Channels. The technical parameters for BellSouth Wavelength Channel service are described in BellSouth Technical Reference #73630 BT.

BellSouth Wavelength Channel service individual stand-alone Wavelength Channels are available with Transparent Transport or Bit Rate Specific Wavelength Channels capabilities. Transparent Transport Wavelength Channels are available with transmission speeds of 1.25 Gbps or 2.5 Gbps, and Bit Rate Specific Wavelength Channels with OC-192 Transport With Transparent Overhead, STM-64 Transport With Transparent Overhead, or 10 Gbps WAN Transport capabilities are available. An individual stand-alone Wavelength Channel is also available with 1000 Mbps Transport Bit Rate Specific transmission capabilities.

BellSouth Wavelength Channel Service Dedicated Systems are available with four levels of service capabilities as follows:

Dedicated System 1 – Provides capability for 4 unprotected wavelength channels

Dedicated System 2 – Provides capability for 8 unprotected wavelength channels

Dedicated System 3 – Provides capability for 16 unprotected wavelength channels

Dedicated System 4 – Provides capability for 32 unprotected wavelength channels

(M)

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(N)

29 – Optical Transport Access Services

(N)

29.4 BellSouth Wavelength Channel Service (Cont'd)

(N)

29.4.1 General Description (Cont'd)

(N)

(A) (Cont'd)

(N)

BellSouth Wavelength Channel Service Dedicated Systems provide the capability, to activate multiple Transparent Transport, Bit Rate Specific, and/or WaveGate local channels:

(M)

(M)

(M)

- Transparent Wavelength Channels are available on a per wavelength Channel basis with transmission speeds of 1.25 Gbps and 2.5 Gbps.

(M)

(M)

- Bit Rate Specific Wavelength Channels are available at OC-3, OC-12, OC-48, OC-192, OC-192 Transport with Transparent Overhead, STM-64 Transport with Transparent Overhead, 10 Gbps WAN Transport and 1000 Mbps Transport transmission rates.

(M)

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- WaveGate Wavelength Channels provide SONET OC-3, OC-12, OC-48 and OC-192 channelization capabilities at the customer premises and four-fiber channel termination in the serving central office. Customer Channel Interfaces associated with LightGate Service (a.k.a. BellSouth SPA Point to Point Network) contained in Section 7 of this Tariff shall be used with WaveGate Wavelength Local Channels.

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