

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: October 10, 2014
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Thirteenth Revised Page 1
Cancels Twelfth Revised Page 1

EFFECTIVE: November 9, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

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BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: October 10, 2014
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Fourth Revised Page 1.1
Cancels Third Revised Page 1.1

EFFECTIVE: November 9, 2014

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BELLSOUTH
TELECOMMUNICATIONS
GEORGIA

ACCESS SERVICES TARIFF

Eighteenth Revised Page 2
Cancels Seventeenth Revised Page 2

ISSUED: October 10, 2014
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: November 9, 2014

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BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: October 15, 1997
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Second Revised Page 3
Cancels First Revised Page 3

EFFECTIVE: November 14, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

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BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: October 30, 2020
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Fourteenth Revised Page 1
Cancels Thirteenth Revised Page 1

EFFECTIVE: December 1, 2020

E7. SPECIAL ACCESS (a.k.a. BellSouth SPA) SERVICE

E7.1 General

Special Access (a.k.a. BellSouth SPA) service provides a transmission path to connect customer designated premises¹, either directly or through a Company hub where bridging or channelization functions are performed. Special Access (a.k.a. BellSouth SPA) service² includes all exchange access not utilizing Company end office switches.

The connections provided by Special Access (a.k.a. BellSouth SPA) service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

E7.1.1 Channel Types

- A. There are eight types of channels used to provide Special Access (a.k.a. BellSouth SPA) services. Each type has its own characteristics. All are subdivided by one or more of the following:
 - Transmission specifications
 - Bandwidth
 - Speed (i.e., bit rate)
 - Spectrum
- B. Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements.
- C. For purposes of ordering channels, each has been identified as a type of Special Access (a.k.a. BellSouth SPA) service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as Metallic (a.k.a. BellSouth SPA Metallic) service in this Tariff, there is no restriction against doing so.
- D. Following is a brief description of each type of channel:
 1. Telegraph (a.k.a. BellSouth SPA Telegraph) Grade - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.
 2. Voice Grade (a.k.a. BellSouth SPA DS0 VG)- a channel for the transmission of analog signals within an approximate bandwidth of 300-3000 Hz.
 3. WATS Access Line (a.k.a. BellSouth SPA WATS Line)(WAL) - a channel from a customer designated premises to a WATS serving office for BellSouth SWA 8XX Toll Free Dialing Ten Digit Screening Service, WATS (a.k.a. BellSouth SPA WATS Line) or similar service.
 4. Wired Music³ - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 200 to 3500 Hz, from 100 to 5000 Hz or from 50 to 8000 Hz. (N)
 5. **(DELETED)**
 6. Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56.0 kbps.
 7. High Capacity (a.k.a. BellSouth SPA High Capacity) - a channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312, or 44.736 Mbps.
 8. Derived Data Channel (a.k.a. BellSouth SPA Derived Data Channel) - a digital data channel derived from a two-wire local exchange facility that transmits voice and data signals simultaneously.

Note 1: Company Answering Service Concentrators are considered to be customer premises for purposes of administering regulations and rates contained in this Tariff.

Note 2: For purposes of administering the surcharge regulations, WATS (a.k.a. BellSouth SPA WATS Line) access lines are considered to be Special Access (a.k.a. BellSouth SPA) service.

Note 3: Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

(N)
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(N)

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: October 10, 2014
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Ninth Revised Page 2
Cancels Eighth Revised Page 2

EFFECTIVE: November 9, 2014

E7. SPECIAL ACCESS (a.k.a. BellSouth SPA) SERVICE**E7.1 General (Cont'd)****E7.1.1 Channel Types (Cont'd)**

- E.** Detailed descriptions of each of the channel types are provided in E7.2. (D)
1. The customer also has the option of ordering digital high capacity facilities (i.e., 1.544 Mbps, 3.152 Mbps, 6.312 Mbps, and 44.736 Mbps) to a Company Hub for channelization to individual channels of a lower capacity. Descriptions of the types of channelization available at the hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in E7.2. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are also set forth in E7.2. (D)
 2. For example, a customer may order a 44.736 Mbps facility from a customer designated premises to a Company Hub for channelization to twenty-eight 1.544 Mbps channels. The 1.544 Mbps channels may be further channelized at the same or a different Hub to Voice Grade (a.k.a. BellSouth SPA DS0 VG) channels or may be extended to other customer designated premises. Optional features may be added to either the 1.544 Mbps or the Voice Grade (a.k.a. BellSouth SPA DS0 VG) channels. (D)

E7.1.2 Rate Categories

- A.** The following rate categories apply to Special Access (a.k.a. BellSouth SPA) service:
1. Local Channels (described in E7.1.2.B. following)
 2. Interoffice Channel (described in E7.1.2.C. following)
 3. Optional Features and Functions (described in E7.1.2.D. following)
 4. SMARTPath^{*} service (a.k.a. BellSouth SPA DS1 Shared Ring) Area Connections (described in E7.1.2.F. following)
 5. SMARTPath^{*} service (a.k.a. BellSouth SPA DS1 Shared Ring) Area Junctions (described in E7.1.2.G. following)
 6. SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) (described in E7.1.2.H following) (D)
- B.** Local Channel
- The Local Channel rate category provides for the communications path between the demarcation point at a customer designated premises and the serving wire center of that premises. Included as part of the Local Channel is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as an optional feature as set forth in E7.1.2.C. One Local Channel charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer premises and the serving wire center are co-located in a Company building. (D)
- C.** Interoffice Channel
- The Interoffice Channel rate category provides for the transmission facilities between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designated premises and a Company Hub or between two Company Hubs. Interoffice Channel mileage is portrayed in mileage bands. There are two rates that apply for each band, i.e., a flat rate per band and a rate per mile.
- D.** Optional Features and Functions
- The Optional Features and Functions rate category provides for optional features and functions which may be added to a Special Access (a.k.a. BellSouth SPA) service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

BELLSOUTH
TELECOMMUNICATIONS
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ACCESS SERVICES TARIFF

Ninth Revised Page 3
Cancels Eighth Revised Page 3

ISSUED: September 6, 2012
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: October 6, 2012

E7. SPECIAL ACCESS (a.k.a. BellSouth SPA) SERVICE

E7.1 General (Cont'd)

E7.1.2 Rate Categories (Cont'd)

D. Optional Features and Functions (Cont'd)

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- ***BellSouth Customer Network Management Service***

(D)

- E. A Hub is a Company designated serving wire center at which bridging or channelization functions are performed. The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. The channelization functions are to channelize analog or digital facilities to individual services requiring a lower capacity. National Exchange Carrier Association Tariff FCC No. 4 identifies serving wire centers, Hub locations and the type of bridging or channelization functions available.
- F. The SMARTPath service (a.k.a. BellSouth SPA DS1 Shared Ring) Area Connection provides for the connection at the designated premises where the customer gains access to SMARTPath service (a.k.a. BellSouth SPA DS1 Shared Ring) and transport to a designated junction in the same SMARTPath service (a.k.a. BellSouth SPA DS1 Shared Ring) area.
- G. The SMARTPath service (a.k.a. BellSouth SPA DS1 Shared Ring) Area Junction provides for the connection between the SMARTPath service (a.k.a. BellSouth SPA DS1 Shared Ring) network and (1) another customer designated premises, in the same SMARTPath service (a.k.a. BellSouth SPA DS1 Shared Ring) Area or (2) a serving wire center in the same SMARTPath service (a.k.a. BellSouth SPA DS1 Shared Ring) Area for connection to (a) DS1 Basic Channelization, ***BellSouth Customer Network Management Service*** or DS3 service as provided in Section E7. of this Tariff, or (b) a SMARTPath service (a.k.a. BellSouth SPA DS1 Shared Ring) Area Junction of another SMARTPath service (a.k.a. BellSouth SPA DS1 Shared Ring) area in the same Metropolitan Area.

Descriptions for each of the available Optional Features and Functions are set forth in E7.2 following.

H. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing service [a.k.a. BellSouth Dedicated Ring])

1. Customer Node

Customer Nodes provide ring switching capabilities at customer designated locations other than Telephone Company Premises that are part of SMARTRing service (a.k.a. BellSouth Dedicated Ring). This rate element offers OC-3, OC-3+, OC-12, OC-48, or OC-48+ network capacities. An OC-1 network capacity is available only in an Overlay Ring Arrangement riding the customer's host OC-12, OC-48, or OC-48+ SMARTRing service (a.k.a. BellSouth Dedicated Ring) installed on or after June 3, 1994. A summary of the channel interfaces available with each node are specified in E7.2.11.A following.

2. Customer Channel Interface

A Customer Channel Interface provides DS1, DS3, STS-1 electrical channelization and/or OC-3 and/or OC-12 optical channelization that may take place at each Customer Node of SMARTRing service (a.k.a. BellSouth Dedicated Ring). The Customer Channel Interface rate element applies for every interface capacity that originates or terminates at a Customer Node. A summary of the channel interfaces available with each node are specified in E7.2.16.A. following.

3. Central Office Node

Central Office Nodes provide ring switching capabilities at Telephone Company Central Offices that are a part of SMARTRing service (a.k.a. BellSouth Dedicated Ring). This rate element offers OC-3, OC-3+, OC-12, OC-48, and OC-48+ network capacities. An OC-1 network capacity is available only in an Overlay Ring Arrangement riding the customer's host OC-12, OC-48 or OC-48+ SMARTRing service (a.k.a. BellSouth Dedicated Ring) installed on or after June 3, 1994. A summary of the channel interfaces available with each node are specified in E7.2.16.A. following.

4. Central Office Channel Interface

A Central Office Channel Interface provides DS1, DS3, STS-1 electrical channelization and/or OC-3 and/or OC-12 optical channelization that may take place at each Central Office Node located on SMARTRing service (a.k.a. BellSouth Dedicated Ring). The Central Office Channel Interface rate element applies for every interface capacity that originates or terminates at a Central Office Node. A summary of the channel interfaces available with each node are specified in E7.2.16.A. following. Customers with DS3 or STS-1 interfaces at the Customer Node electing to connect with DS1 services at a Central Office Node, must obtain a 28-DS1 Channel System.

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: October 10, 2014
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Second Revised Page 3.0.1
Cancels First Revised Page 3.0.1

EFFECTIVE: November 9, 2014

E7. SPECIAL ACCESS (a.k.a. BellSouth SPA) SERVICE**E7.1 General (Cont'd)****E7.1.2 Rate Categories (Cont'd)****H. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing® service [a.k.a. BellSouth Dedicated Ring]) (Cont'd)****5. Local Channel**

The Local Channel rate category provides for the communications path between a Customer Node and the serving wire center of the premises where located. Charges for Local Channels apply as described in A. preceding. It is available with all capacities of SMARTRing® service (a.k.a. BellSouth Dedicated Ring) except OC-1.

6. Alternate Central Office Channel

The Alternate Central Office Channel provides for the communications path between a customer node and an alternate central office. It is available with all capacities of SMARTRing service (a.k.a. BellSouth Dedicated Ring) except OC-1.

7. Interoffice Channel

The Interoffice Channel provides for the communications path between directly connected Telephone Company central offices located on a SMARTRing service (a.k.a. BellSouth Dedicated Ring). It is available with all capacities of SMARTRing service (a.k.a. BellSouth Dedicated Ring) except OC-1. This rate element does not apply where Central Office Nodes are adjacently connected in the same Central Office on the same SMARTRing service (a.k.a. BellSouth Dedicated Ring) for the purpose of providing additional node capacity.

8. Internodal Channel

The Internodal Channel provides for the communications path between two directly connected Customer Nodes of a given SMARTRing service (a.k.a. BellSouth Dedicated Ring) located (a) in the same Serving Wire Center area or (b) in the same Office Park/Campus Environment or contiguous property, located in contiguous Serving Wire Center areas. It is available with all capacities of SMARTRing service (a.k.a. BellSouth Dedicated Ring) except OC-1. This rate element does not apply where Customer Nodes are adjacently connected in the same building on the same SMARTRing service (a.k.a. BellSouth Dedicated Ring) for the purpose of providing additional node capacity.

9. Channel Interface Capacity Reallocation

Channel Interface Capacity Reallocation allows the customer to reallocate STS-1, DS3 capacity interfaces at each node subsequent to the initial service installation.

I. Reserved for Future Use

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BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA

ACCESS SERVICES TARIFF

Third Revised Page 3.0.2
Cancels Second Revised Page 3.0.2

ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (a.k.a. BellSouth SPA) SERVICE

E7.1 General (Cont'd)

E7.1.2 Rate Categories (Cont'd)

J. Access Collocation Cross-Connects

Access Collocation Cross-Connects provide a means for customers to interconnect their Shared Use and Digital High Capacity (a.k.a. BellSouth SPA High Capacity) to Central Office Collocation arrangements within the same Central Office. Terms, conditions, and rates for Physical Access Collocation Cross-Connects and Virtual Access Collocation Cross-Connects are set forth in Section E13. of this Tariff.

E7.1.3 Service Configurations

There are three types of service configurations over which Special Access (a.k.a. BellSouth SPA) services are provided: two-point service, multipoint service and SMARTRing service (a.k.a. BellSouth Dedicated Ring).

A change from one Special Access service (a.k.a. BellSouth SPA) configuration to another will be treated as a discontinuance of existing service and installation of a new service as set forth in E5 preceding, except for ***BellSouth Customer Network Management Service*** reconfigurations. (C)

A. Two-Point Service

A two-point service connects two customer-designated premises, either on a directly connected basis or through a hub where channelization functions are performed.

Applicable rate elements are:

- Local Channels
- Interoffice Channels (as applicable)
- Optional Features and Functions (when applicable)

In addition, a Special Access (a.k.a. BellSouth SPA) Surcharge as set forth in E7.4.2 following and a Message Station Equipment Recovery Charge as set forth in E7.4.3 following may be applicable.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

First Revised Page 3.1
Cancels Original Page 3.1

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(T)

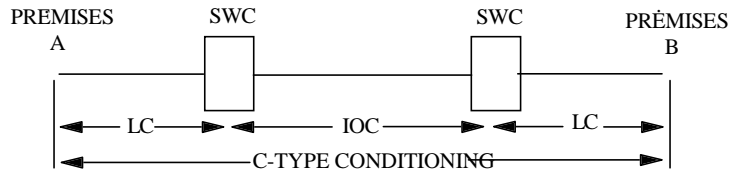
E7.1 General (Cont'd)

E7.1.3 Service Configurations (Cont'd)

A. Two-Point Service (Cont'd)

The following diagram depicts a two-point Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) service connecting two customer designated premises located 15 miles apart. The service is provided with C-Type Conditioning.

(T)



LC - Local Channel
IOC - Interoffice Channel
SWC - Serving Wire Center

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TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Second Revised Page 4
Cancels First Revised Page 4

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE (T)

E7.1 General (Cont'd)

E7.1.3 Service Configurations (Cont'd)

- A. Two-Point Service (Cont'd)
 - 1. Applicable rate elements are:
 - a. Local Channels (2 applicable)
 - b. Interoffice Channels (mileage band over 9 thru 25 miles)
 - c. C-Type conditioning Optional Feature

B. Multipoint Service

Multipoint service connects three or more customer designated premises through a Company Hub. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between hubs (i.e., bridging locations). Only certain types of Special Access (*a.k.a. BellSouth SPA*) service are provided as multipoint service. These are so designated in the Service Descriptions set forth in E7.2 following. (T)

When ordering, the customer will specify the desired bridging Hub(s) selected from the Exchange Carrier Association Tariff F.C.C. No. 4. This tariff identifies the type(s) of bridging functions which are available and the serving wire centers at which they are available.

- 1. Applicable Rate Elements are:
 - a. Local Channels (one per customer designated premises)
 - b. Interoffice Channels (as applicable between each designated customer premises and the Hub and between Hubs)
 - c. Bridging
 - d. Additional Optional Features (when applicable)

In addition, a Special Access (*a.k.a. BellSouth SPA*) Surcharge as set forth in E7.4.2 following and a Message Station Equipment Recovery Charge as set forth in E7.4.3 following may be applicable. (T)

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: September 29, 1998
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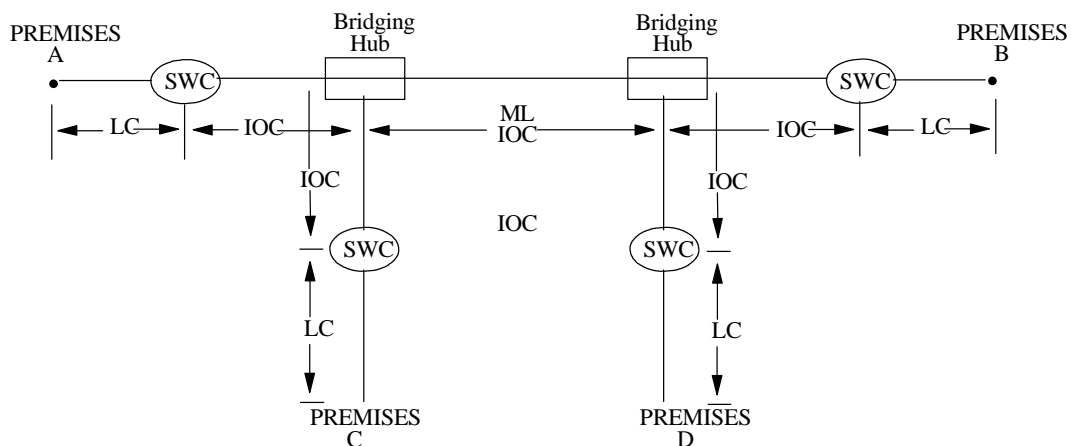
ACCESS SERVICES TARIFF

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.1 General (Cont'd)****E7.1.3 Service Configurations (Cont'd)****B. Multipoint Service (Cont'd)**

Example: Voice Grade (a.k.a. BellSouth SPA DS0 VG) multipoint connecting four customer premises via two customer specified bridging hubs.



LC = Local Channel
IOC = Interoffice Channel
B = Bridging
SWC = Serving Wire Center

2. Applicable rate elements are:
 - a. Local Channels (4 applicable)
 - b. Interoffice Channel (5 sections, each from appropriate mileage band)
 - c. Bridging Optional Feature (6 applicable, i.e., each bridge port)

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(N)

E7.1 General (Cont'd)

(N)

E7.1.3 Service Configurations (Cont'd)

(N)

C. SMARTRing® service (a.k.a. BellSouth Dedicated Ring)

(N)

1. The SMARTRing service (a.k.a. BellSouth Dedicated Ring) configuration utilizes a multi-nodal ring architecture which is specified jointly by the Telephone Company and the customer. The minimum configuration provides dedicated DS3 and/or DS1 digital services and must include at least three nodes. The three nodes may all be Central Office Nodes in Telephone Company Central Offices, or the three nodes may be a Central Office Node in a Telephone Company Central Office, a Customer Node at a customer's designated location and the third node may be either a Central Office Node or a node at a another customer designated location. Additional nodes for either arrangement may be any combination thereof. The maximum number of nodes will be determined based on equipment capability. The nodes are connected by SMARTRing service (a.k.a. BellSouth Dedicated Ring) Local Channels, Alternate Central Office Channels, Interoffice Channels and Internodal Channels as applicable. SMARTRing service (a.k.a. BellSouth Dedicated Ring) may be connected to other DS3/DS1 services only at Central Office Nodes. With OC-12 SMARTRing service (a.k.a. BellSouth Dedicated Ring) installed on or after June 3, 1994, and with OC-48 and OC-48+ SMARTRing service (a.k.a. BellSouth Dedicated Ring) the customer may request an OC-1 and/or OC-3 Overlay Ring Arrangement riding the customer's host OC-12, OC-48, or OC-48+ SMARTRing service (a.k.a. BellSouth Dedicated Ring). With OC-48 SMARTRing service (a.k.a. BellSouth Dedicated Ring), the customer may request an OC-3+ and/or OC-12 Overlay Ring Arrangement riding the customer's host OC-48 SMARTRing service (a.k.a. BellSouth Dedicated Ring). In an Overlay Ring Arrangement, node and channel configuration requirements apply to the host SMARTRing service (a.k.a. BellSouth Dedicated Ring).
2. Applicable rate elements for this service are:
 - a. Customer Node (at least one for configurations other than three Central Office Node arrangement)
 - b. Customer Channel Interface (one for each originating/terminating activated DS1, DS3, STS-1, OC-3, and/or OC-12 for each Customer Node)
 - c. Central Office Node (at least one for configurations other than three Central Office Node arrangement)
 - d. Central Office Channel Interface (one for each originating/terminating activated DS1, DS3, STS-1, OC-3 and/or OC-12 for each Central Office Node or one for each 28 DS1 Channel System and associated DS1 Channel Interfaces for each activated DS3)
 - e. Local Channel (at least one for each Customer Node which is directly connected to the serving wire center)
 - f. Alternate Central Office Channel (at least one for each Customer Node which is directly connected to an Alternate Central Office)
 - g. Internodal Channel (one for each path between two directly connected customer nodes)
 - h. Interoffice Channel (one for each path between each two directly connected Telephone Company Central Offices)
 - i. Channel Interface Capacity Reallocation (one per node per occurrence)

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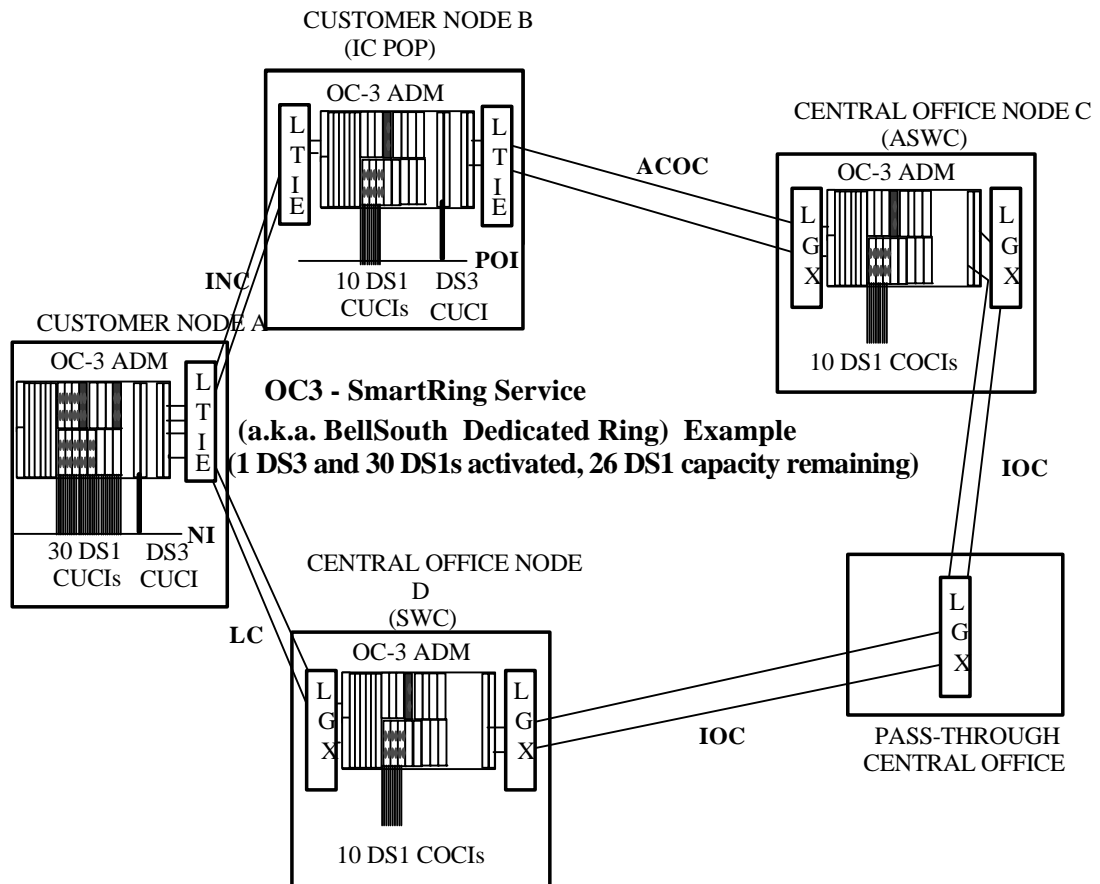
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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.1 General (Cont'd)****E7.1.3 Service Configurations**

C. SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) (Cont'd)



Example: SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) OC-3 capacity.

For this example the following rate elements are applicable:

- 2 Customer Nodes
- 2 Central Office Nodes
- 1 Local Channel
- 1 Internodal Channel
- 1 Alternate Central Office Channel
- 2 Interoffice Channels
- 2 DS3 Customer Channel Interfaces
- 40 DS1 Customer Channel Interfaces
- 20 DS1 Central Office Channel Interfaces

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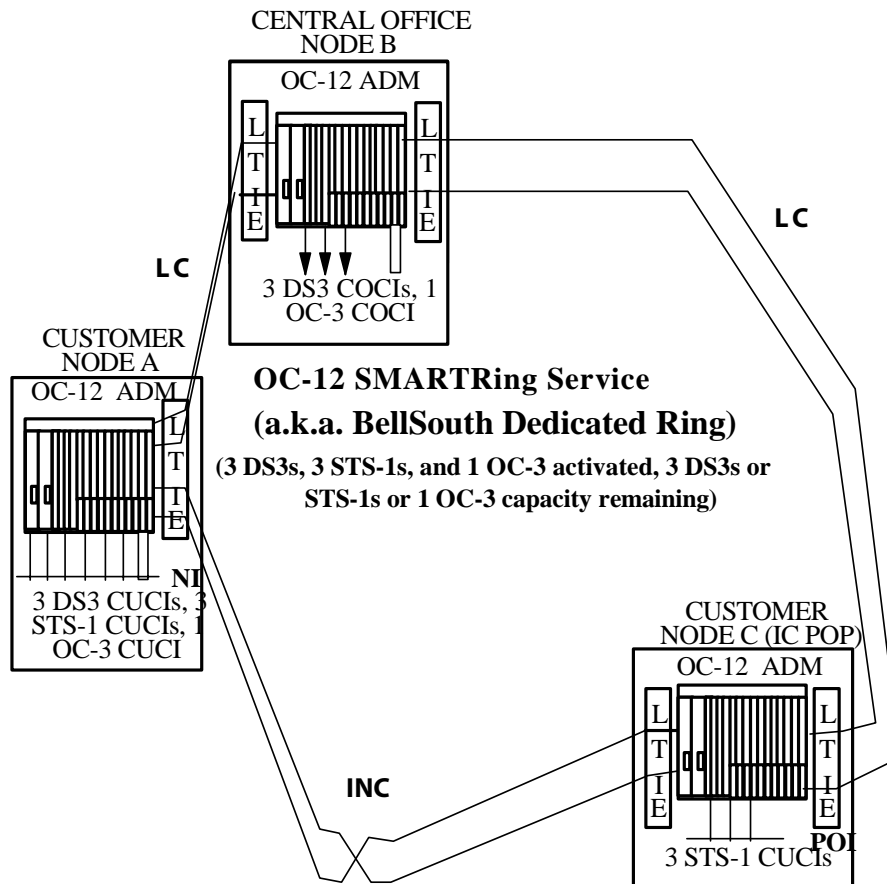
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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.1 General (Cont'd)****E7.1.3 Service Configurations (Cont'd)**

C. SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) (Cont'd)



Example: SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) OC-12 capacity.

For this example the following rate elements are applicable:

- 2 Customer Nodes
- 1 Central Office Nodes
- 2 Local Channels
- 1 Internodal Channel
- 3 DS3 Customer Channel Interfaces
- 3 DS3 Central Office Channel Interfaces
- 6 STS-1 Customer Channel Interfaces
- 1 OC-3 Customer Channel Interface
- 1 OC-3 Central Office Channel Interface

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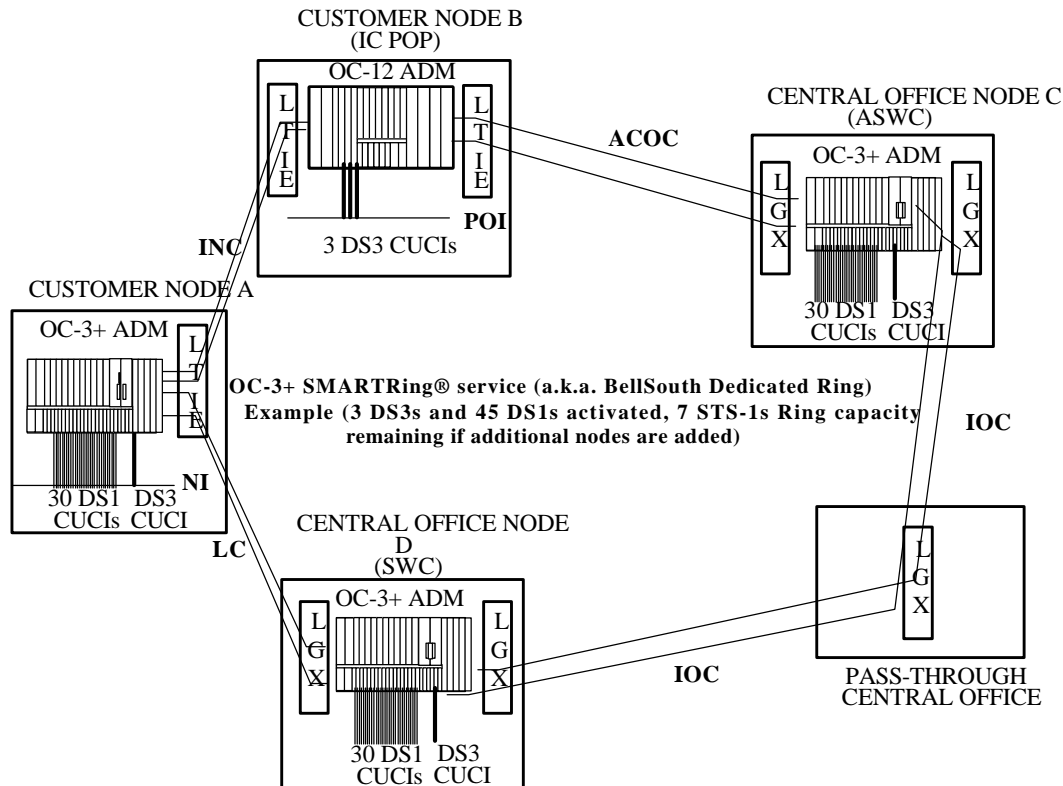
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EFFECTIVE: October 29, 1998

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.1 General (Cont'd)****E7.1.3 Service Configurations (Cont'd)**

C. SMARTRing® service (a.k.a. BellSouth Dedicated Ring) (Cont'd)



Example: SMARTRing® service (a.k.a. BellSouth Dedicated Ring) OC-3+ capacity.

For this example the following rate elements are applicable:

- 2 Customer Nodes
- 2 Central Office Nodes
- 1 Local Channel
- 1 Internodal Channel
- 1 Alternate Central Office Channel
- 2 Interoffice Channels
- 4 DS3 Customer Channel Interfaces
- 2 DS3 Central Office Channel Interfaces
- 30 DS1 Customer Channel Interfaces
- 60 DS1 Central Office Channel Interfaces

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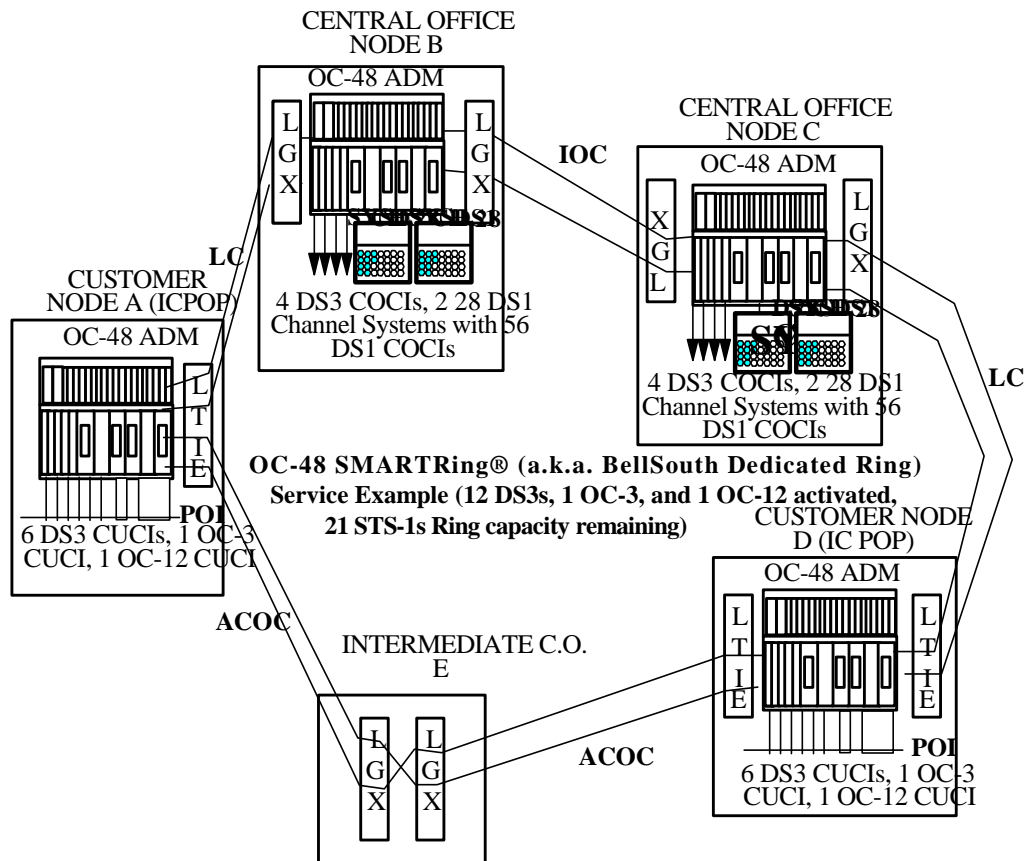
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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.1 General (Cont'd)****E7.1.3 Service Configurations (Cont'd)**

C. SMARTRing® service (a.k.a. BellSouth Dedicated Ring) (Cont'd)



Example: SMARTRing® service (a.k.a. BellSouth Dedicated Ring) OC-48 capacity.

For this example the following rate elements are applicable:

- 2 Customer Nodes
- 2 Central Office Nodes
- 2 Local Channels
- 2 Alternate Central Office Channels
- 1 Interoffice Channel
- 12 DS3 Customer Channel Interfaces
- 8 DS3 Central Office Channel Interfaces
- 4 28 DS1 Channel Systems (DS3)
- 112 DS1 Central Office Channel Interfaces
- 2 OC-3 Customer Channel Interfaces
- 2 OC-12 Customer Channel Interfaces

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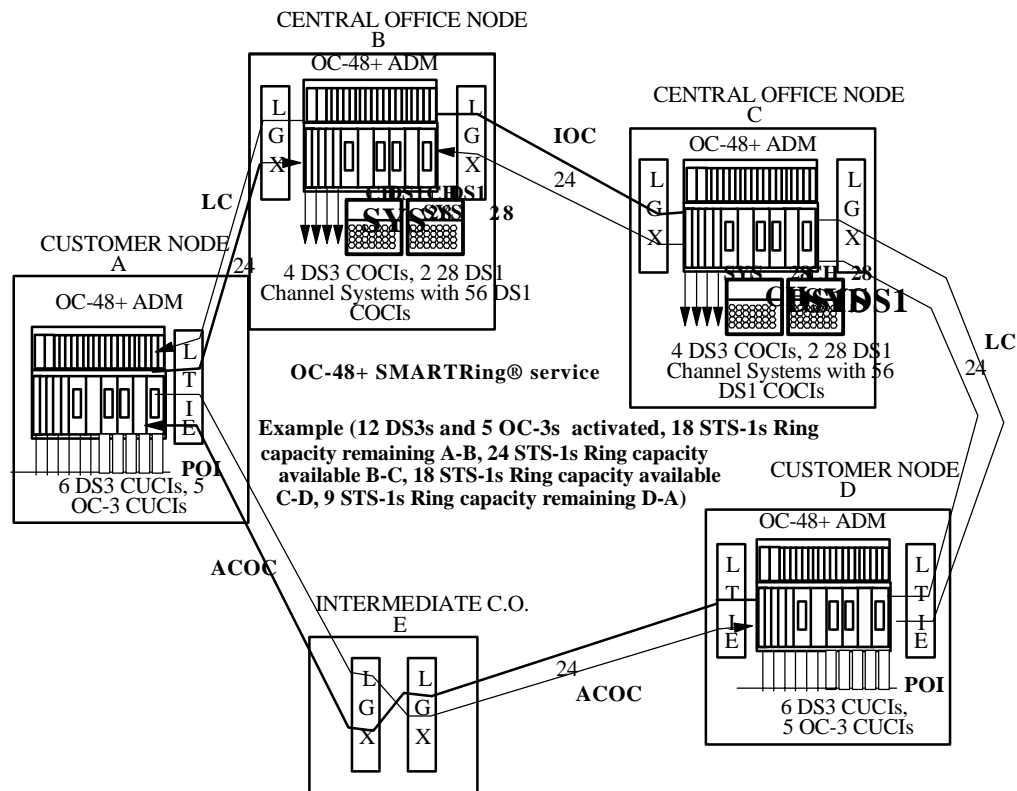
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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.1 General (Cont'd)****E7.1.3 Service Configurations (Cont'd)**

C. SMARTRing® service (a.k.a. BellSouth Dedicated Ring) (Cont'd)



Example: SMARTRing® service (a.k.a. BellSouth Dedicated Ring) service OC-48+ capacity.

For this example the following rate elements are applicable:

- 2 Customer Nodes
- 2 Central Office Nodes
- 2 Local Channels
- 2 Alternate Central Office Channels
- 1 Interoffice Channel
- 12 DS3 Customer Channel Interfaces
- 8 DS3 Central Office Channel Interfaces
- 4 28 DS1 Channel Systems (DS3)
- 112 DS1 Central Office Channel Interfaces
- 10 OC-3 Customer Channel Interfaces

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.1 General (Cont'd)

E7.1.4 Alternate Use

- A. Alternate Use occurs when a service is arranged by the Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternative use, the Company will make such special arrangements available on an individual case basis.
- B. The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section E12., Specialized Service or Arrangements. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered (i.e., Local Channels, Interoffice Channels as applicable, and Optional Features and Functions, if any.)

E7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special Access (a.k.a. BellSouth SPA) service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable Only) are as set forth in Section E11. following.

E7.1.6 Design Layout Report

At the request of the customer, the Company will provide to the customer the make-up of the facilities and service provided under this Tariff as Special Access (a.k.a. BellSouth SPA) service to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report.

The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

E7.1.7 Acceptance Testing

- A. At no additional charge, the Company will, at the customer's request, cooperatively test, at the time of installation, the following parameters:
 1. For Voice Grade (a.k.a. BellSouth SPA DS0 VG) services, acceptance tests will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise and C-message noise when these parameters are applicable and specified in the order of service. Additionally, for Voice Grade (a.k.a. BellSouth SPA DS0 VG) services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
 2. For other analog services (i.e., Telegraph (a.k.a. BellSouth SPA Telegraph), WATS Access Line (a.k.a. BellSouth SPA WATS Line) and Wired Music⁽¹⁾ and for digital services (i.e., Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data), WATS Access Line (a.k.a. BellSouth SPA WATS Line) and High Capacity (a.k.a. BellSouth SPA High Capacity)), acceptance tests will include tests for the parameters applicable to the service as specified in the order for service.
- B. In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade (a.k.a. BellSouth SPA DS0 VG) service to test other parameters, as described in E13.3.5.B. following, is available at the customer's request. All test results will be made available to the customer upon request.

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E7.1.8 Ordering Options and Conditions

- A. The ordering option available to the customer in the provision of Special Access (a.k.a. BellSouth SPA) service is the Access Order.
- B. This option is set forth in detail in Section E5. preceding. Also included in that section are other charges which may be associated with ordering Special Access (a.k.a. BellSouth SPA) service (e.g., Service Data Change Charges, Cancellation Charges, etc.)
- C. For the purposes of ordering, there are seven categories of Special Access (a.k.a. BellSouth SPA) service. These are:
 1. Telegraph (a.k.a. BellSouth SPA Telegraph) Grade (TG)

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

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ACCESS SERVICES TARIFF

Eleventh Revised Page 7
Cancels Tenth Revised Page 7

EFFECTIVE: December 1, 2020

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.1 General (Cont'd)

E7.1.8 Ordering Options And Conditions (Cont'd)

- C. For the purposes of ordering, there are nine categories of Special Access (a.k.a. BellSouth SPA) service. These are: (Cont'd)
2. Voice Grade (a.k.a. BellSouth SPA DS0 VG) (VG)
 3. Wired Music⁽¹⁾ (AP)
 4. **Reserved for Future Use**
 5. Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service (DDAS)
 6. High Capacity (a.k.a. BellSouth SPA High Capacity) (HC)
 7. Self-Healing Rings (SMARTRing service [a.k.a. BellSouth Dedicated Ring])
 8. WATS Access Line (a.k.a. BellSouth SPA WATS Line) (WAL)
 9. Derived Data Channel (a.k.a. BellSouth SPA Derived Data Channel) service (DDCS)
- D. Each service consists of a basic channel to which a predefined technical specifications package, channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Each of the components of the service is described in this section. Terms, conditions, and **rates for Physical Access Collocation Cross-Connects and Virtual Access Collocation Cross-Connects** are **set forth in Section E13. of this Tariff for those services that are permitted to connect directly to a carrier's collocation space.**
- E. The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or between a customer designated premises and a Company hub where bridging and/or channelization functions are performed.
- F. Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VG1. The first two letters of the code indicate the category of Special Access (a.k.a. BellSouth SPA) service to which the parameters are applicable. These two-letter codes are shown above in parentheses following the category of Special Access (a.k.a. BellSouth SPA) service. The number "1" following the two-letter code indicates the technical specifications package for a voice grade (a.k.a. BellSouth SPA DS0 VG) service. An alphanumeric designation following the two-letter code indicates the specific predefined package. When appropriate, the Technical Reference that contains detailed specifications for the parameters is shown following the matrix.
- G. Channel interfaces at each point of termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical. However, communications can only be provided between points of termination with compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in a combination format.
- Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth at the end of this E7.2.
- H. The optional features and functions available with each type of Special Access (a.k.a. BellSouth SPA) service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in a matrix with the optional feature or function listed down the left side and the technical specifications package listed across the top.
- I. The Company will maintain existing transmission specifications on services installed prior to the effective date of this Tariff, except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this Tariff.

All services installed after the effective date of this Tariff will conform to the transmission specification standards contained in this Tariff or in the following Technical References for each category of service:

| | |
|--|--------------------|
| Telegraph Grade (a.k.a. BellSouth SPA Telegraph) | TR-NPL-000336 |
| Voice Grade (a.k.a. BellSouth SPA DS0 VG) | TR-NPL-000335 |
| | PUB 41004, Table 4 |
| Wired Music ⁽¹⁾ | TR-NPL-000337 |

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

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Sixth Revised Page 8
Cancels Fifth Revised Page 8

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

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E7.1 General (Cont'd)**E7.1.8 Ordering Options And Conditions (Cont'd)**

I. (Cont'd)

Digital Data Access (*a.k.a. BellSouth SPA DSO Digital Data*)

For 2.4, 4.8, 9.6 and 56.0 Kbps

For 19.2 Kbps

For 64.0 Kbps

High Capacity (*a.k.a. BellSouth SPA High Capacity*)WATS Access Line (*a.k.a. BellSouth SPA WATS Line*)Derived Data Channel Service (*a.k.a. BellSouth SPA Derived Data Channel*)

TR-NPL-000341

BellCore PUB 62310

INC. BULLETIN

CB-INC-100

AT&T PUB 62310

TA-TSY -000342

TR-NPL-000054

TR-NPL-000334

BellSouth TR-73548

BellSouth TR-73548, Addendum 1

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E7.2 Service Descriptions**E7.2.1 Reserved for Future Use**

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ACCESS SERVICES TARIFF

Second Revised Page 9
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EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE (T)

E7.2 Service Descriptions (Cont'd)

E7.2.2 Telegraph Grade (*a.k.a. BellSouth SPA Telegraph*) Service (T)

A. Basic Channel Description

A Telegraph Grade (*a.k.a. BellSouth SPA Telegraph*) channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph Grade (*a.k.a. BellSouth SPA Telegraph*) channels are provided between customer designated premises or between a customer designated premises and a Company Hub. Telegraph Grade (*a.k.a. BellSouth SPA Telegraph*) service is not available for additions, new installations or moves of service. (T)

B. Technical Specifications Packages

| Parameter | Package TG- | |
|----------------------|-------------|---|
| | 1 | 2 |
| Telegraph Distortion | X | X |

The technical specifications are delineated in Technical Reference TR-NPL-000336.

C. Channel Interfaces

Compatible channel interfaces are set forth in Technical Reference TR-NPL-000336.

D. Optional Features and Functions

1. Telegraph Bridging (two-wire and four-wire)

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

| | Available with Technical Specifications Package TG- | |
|--------------------|---|---|
| | 1 | 2 |
| Telegraph Bridging | X | X |

E7.2.3 Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) Service (T)

A. Basic Channel Description

A Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) channels are provided between customer designated premises or between a customer designated premises and a Company Hub. (T)

Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) Channels are classified as Voice Grade/Voice or Voice Grade/Data depending on the suitability of the technical specification package requested by the customer. Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) Technical Specification Packages 1, 2, 3, 4, 5, 7, 8, 9, 11 and 12 are suitable for Voice Grade/Voice. The Technical Specification Packages 6 and 10 are suitable for Voice Grade/Data Service. (T)

B. Technical Specifications Packages

| Parameter | Package VG- | | | | | | | | | | | |
|------------------------|-------------|---|---|---|---|---|---|---|---|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Attenuation Distortion | X | X | X | X | X | X | X | X | X | X | X | X |
| C-Message Noise | X | X | X | X | X | X | X | X | X | X | X | X |

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(T)

E7.2 Service Descriptions (Cont'd)

E7.2.3 Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) Service (Cont'd)

B. Technical Specifications Packages (Cont'd)

| Parameter | Package VG- | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Echo Control | X | X | X | | X | | X | X | | | X | X |
| Envelope Delay | | | | | | | | | | | | |
| Distortion | | | | | | X | X | X | X | X | X | X |
| Frequency Shift | | | | | | X | X | X | X | X | X | X |
| Impulse Noise | | | | | X | X | X | X | X | X | X | X |
| Intermodulation | | | | | | | | | | | | |
| Distortion | | | | | | X | X | X | X | X | X | |
| Loss Deviation | X | X | X | X | X | X | X | X | X | X | X | X |
| Phase Jitter | | | | | | X | X | X | X | X | X | |
| Signal-to-C Message Noise | | | | X | | | | | | | | |
| Signal-to-C Notch Noise | | | | | X | X | X | X | X | X | X | X |

The technical specifications for these parameters are delineated in Technical Reference TR-NPL-000335 and associated Addendum.

C. Channel Interfaces

The following channel interfaces for Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) service do not require signaling capability: DA, DB, DD, DE, DS, NO, PR and TF. (T)

The following channel interfaces for Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) service require signaling capability: AB, AC, CT, DX, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF. (T)

Compatible channel interfaces are set forth in Technical Reference TR-NPL-A and Associated Addendum following.

D. Optional Features And Functions

1. Central Office Bridging

- Voice Bridging¹ (two-wire and four-wire)
- Data Bridging² (two-wire and four-wire)
- Telephoto Bridging² (two-wire and four-wire)

Note 1: Voice Bridging is intended for use with VG2, 5 and 12. However, it may be used on VG6 and VG10 at a customer's request.

Note 2: Telephoto Bridging is intended for use on VG11.

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE (T)

E7.2 Service Descriptions (Cont'd)

E7.2.3 Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) Service (Cont'd) (T)

D. Optional Features And Functions (Cont'd)

1. Central Office Bridging (Cont'd)
2. Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing Current helps maintain continuity on dry metallic loops. (T)

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid link or end link. C-Type conditioning and D-Conditioning may be combined on the same service.

a. C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are:

Attenuation Distortion (Frequency Response) Relative to 1004 Hz

| Frequency Range (Hz) | Variation (dB) |
|-------------------------|-------------------|
| 504 - 2804 | -1.0 to + 3.0 |
| 304 - 3004 | -2.0 to + 6.0 |

Envelope Delay Distortion

| Frequency Range (Hz) | Variation (micro-seconds) |
|-------------------------|------------------------------|
| 1004 - 2604 | Less than 501 |
| 604 - 2604 | Less than 1501 |
| 504 - 2804 | Less than 3001 |

b. Improved Attenuation Distortion

Improved attenuation distortion is provided for additional control of attenuation distortion. The improved attenuation distortion specifications are:

Attenuation Distortion (Frequency Response) Relative to 1004 Hz

| Frequency Range (Hz) | Variation (dB) |
|-------------------------|-------------------|
| 404-2804 | -1.0 to +2.0 |
| 304-3004 | -1.0 to +3.0 |
| 3004-3204 | -2.0 to +6.0 |

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EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE (T)

E7.2 Service Descriptions (Cont'd)

E7.2.3 Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) Service (Cont'd) (T)

D. Optional Features And Functions (Cont'd)

2. Conditioning (Cont'd)

c. Improved Envelope Delay Distortion

Improved envelope delay distortion is provided for additional control of envelope distortion. The improved envelope delay distortion specifications are:

Envelope Delay Distortion

| Frequency Range (Hz) | Variation (micro-seconds) |
|-------------------------|------------------------------|
| 1001-2604 | Less than 101 |
| 604-2604 | Less than 301 |
| 504-2804 | Less than 3001 |

d. Sealing Current Conditioning

Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type channel interfaces.

3. Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. The level must be within a specific range of effective four-wire transmission. The ranges are delineated in Technical Reference TR-NPL-000335.

4. Echo Control

a. ELEPL 2 (Equal Level Echo Path Loss)

On Effective Two-Wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Company equipment is required at the customer's premises where this option is ordered. Equal Level Echo Path Loss parameters are delineated in Technical Reference TR-NPL-000335.

b. Improved Return Loss

On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control specifications. In order for this option to be applicable, the transmission path must be four-wire at one Point of Termination (POT) and two-wire at the other POT. Placement of Company equipment may be required at the customer's premises with two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference TR-NPL-000335.

5. D-Conditioning

D-Conditioning provides transmission characteristics suitable for data communications. Specifically, D-Conditioning provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or multipoint services.

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ISSUED: December 20, 1996
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Second Revised Page 13
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EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(T)

E7.2 Service Descriptions (Cont'd)

E7.2.3 Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) Service (Cont'd)

D. Optional Features And Functions (Cont'd)

5. D-Conditioning (Cont'd)

The signal to C-Notched Noise Ratio and intermodulation distortion parameters for D-Conditioning are:

- Signal to C-Notched Noise Ratio is equal to or greater than 32dB
- Intermodulation distortion:
 - Signal to second order modulation products (R2) is equal to or greater than 38dB
 - Signal to third order modulation products (R3) is equal to or greater than 42dB

When a service equipped with D-Conditioning is used for voice communications, the quality of the voice transmission may not be satisfactory. D-Conditioning transmission characteristics are described in Technical Reference TR-NPL-000335 under the name Data Capability.

6. Telephoto Conditioning

Telephoto Conditioning provides transmission characteristics suitable for telephotographic communications. Specifically, Telephoto Conditioning is provided for the control of attenuation distortion and envelope delay distortion on telephotographic services. The attenuation distortion and envelope delay distortion parameters for Telephoto Conditioning are:

Attenuation Distortion
(1004 Hz Reference)

| Frequency Range (Hz) | Variation (dB) |
|-------------------------|-------------------|
| 500 - 3000 | - 0.5 to + 1.5 |
| 300 - 3200 | - 1.0 to + 2.5 |

Envelope Delay Distortion

| Frequency Range (Hz) | Variation (mcs) |
|-------------------------|--------------------|
| 1000 - 2600 | Less than 111 |
| 800 - 2800 | Less than 181 |

7. Signaling Capability

Signaling Capability provides for the process by which one customer premises alerts another customer premises on the same service with which it wishes to communicate.

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ISSUED: November 1, 2005
BY: President - Georgia
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Fifth Revised Page 14
Cancels Fourth Revised Page 14

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.3 Voice Grade (a.k.a. BellSouth SPA DS0 VG) Service (Cont'd)****D. Optional Features And Functions (Cont'd)****8. Improved Termination**

The Improved Termination option provides a fixed 600 ohm impedance, a variable level range and simplex reversal, when applicable, at the point of termination. Company equipment is required at the customer's premises when this option is ordered. The Improved Termination parameters are delineated in Technical Reference TR-NPL-000335.

9. Simplex Reversal

The Simplex Reversal option physically turns over the simplex DC path presented at the four-wire point of termination when LO, LS, GO, GS, & DX signaling is provided at the point of termination.

10. *BellSouth Customer Network Management Service*

BellSouth Customer Network Management Service provides the customer the ability to monitor and reconfigure Voice Grade (a.k.a. BellSouth SPA DS0 VG) service provided by the Company. *BellSouth Customer Network Management Service* is described in E7.4.12 following. Charges for this feature are contained in E7.5.16 following.

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

| | Available with Technical Specifications Package VG- | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| C-Type Conditioning | | | | | X | X | X | X | X | X | | |
| Improved Attenuation | | | | | | | | | | | | |
| Distortion | | | | | X | X | X | X | X | X | | |
| Improved Envelope | | | | | | | | | | | | |
| Delay Distortion | | | | | X | X | X | X | X | X | | |
| Central Office | | | | | | | | | | | | |
| Bridging | | | | | | | | | | | | |
| Capability | | | X | | X | X | | | | X | X | X |
| Customer Specified | | | | | | | | | | | | |
| Premises Receive | | | | | | | | | | | | |
| Level | | | X | X | | | X | X | X | | | |
| D-Conditioning | | | | | | X | X | | X | | | |
| Echo Control | | | | | | | | | | | | |
| Improved Return | | | | | | | | | | | | |
| Loss | | | X | X | | | X | | | | | |
| ELEPL2 | X | X | X | | X | | X | | | | | |
| <i>BellSouth Customer Network Management Service</i> | X | X | X | X | X | X | X | X | X | X | X | X |
| Improved Termination | X | X | X | X | X | X | X | X | X | X | X | X |
| Simplex Reversal | X | X | X | | | | X | X | X | | | |

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ISSUED: October 15, 2013
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Third Revised Page 15
Cancels Second Revised Page 15

EFFECTIVE: November 14, 2013

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.3 Voice Grade (a.k.a. BellSouth SPA DS0 VG) Service (Cont'd)**

D. Optional Features And Functions (Cont'd)

9. Simplex Reversal (Cont'd)

| | Available with Technical Specifications Package VG- | | | | | | | | | | | |
|----------------------|--|---|---|---|---|---|---|---|---|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Sealing Current | | | | | | | | | | | | |
| Conditioning | | | | | | X | | | | | | |
| Signaling Capability | X | X | X | | | | X | X | X | | | |
| Telephoto | | | | | | | | | | | | |
| Conditioning | | | | | | | | | | | X | |

E. Four-Wire/Two-Wire Conversions

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The rate for the conversion is included as part of the basic Local Channel rate.

F. WATS Access Line (WAL) (a.k.a. BellSouth SPA WATS Line) service

1. Basic Channel Description

A WATS Access Line (a.k.a. **BellSouth SPA WATS Line**) service (WAL) provides a channel for voice frequency transmission capability. The service provides a connection between a customer designated premises and a WATS (a.k.a. **BellSouth SPA WATS Line**) serving office associated with the closed end of **BellSouth SWA 8XX Toll Free Dialing Ten Digit Screening Service**, WATS (a.k.a. **BellSouth SPA WATS Line**) or similar services. It is provided for use with **BellSouth SWA FGD** in the originating and terminating direction and **BellSouth SWA FGA** and **BellSouth SWA FGB** in the terminating direction and Switched Access Service arrangement features as set forth in Section E6. preceding. The Company is currently unable to provide originating WATS (a.k.a. **BellSouth SPA WATS Line**) service through **BellSouth SWA FGA** and **BellSouth SWA FGB**. Such service will be provided as specified in 2. and 3. following.

The following shall apply to the Company's provision of WATS Access Line (a.k.a. **BellSouth SPA WATS Line**) service:

- a. When the end user's serving wire center is not a WATS serving office, channel mileage charges will apply for a WATS access line (a.k.a. **BellSouth SPA WATS Line**) extension (WALE) between the end user's serving wire center and the nearest WATS serving office.
- b. When a customer, other than AT&T, orders originating WATS Access Line (a.k.a. **BellSouth SPA WATS Line**) service and the end user's serving wire center is a WATS serving office which is not equipped with equal access, the Company will provide the WAL (a.k.a. **BellSouth SPA WATS Line**) service to the nearest equal access WATS serving office by use of a WALE and the channel mileage charges for the WALE will be waived.
- c. When a customer other than AT&T orders originating WATS Access Line (a.k.a. **BellSouth SPA WATS Line**) service and the end user's serving wire center is not a WATS serving office and the nearest WATS serving office is not equipped with equal access, channel mileage charges for a WALE to the nearest WATS serving office will apply, as indicated in 1. preceding, but the Company will provide an additional WALE to the nearest WATS serving office equipped with equal access and the channel mileage charge for the additional WALE will be waived.

(D)

BELLSOUTH
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ISSUED: December 20, 1996
BY: President - Georgia
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ACCESS SERVICES TARIFF

Second Revised Page 16
Cancels First Revised Page 16

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE (T)

E7.2 Service Descriptions (Cont'd)

E7.2.3 Voice Grade (a.k.a. BellSouth SPA DS0 VG) Service (Cont'd) (T)

F. WATS Access Line (WAL) (a.k.a. BellSouth SPA WATS Line) service (Cont'd) (T)

1. Basic Channel Description (Cont'd)

c. (Cont'd)

WATS Access Line (a.k.a. BellSouth SPA WATS Line) service is arranged for either originating calling or terminating calling. It is provided with either rotary dial or dual tone multifrequency address signaling and either loop start, ground start, E & M or reverse battery supervisory signaling. The choice of the type of signaling is at the option of the customer and subject to the technical limitations identified in the Technical Reference TR-NPL-000334. WATS Access Line (a.k.a. BellSouth SPA WATS Line) service is provided as an effective two-wire, an effective four-wire or a DS1 (i.e., 1.544 Mbps) transmission path. The DS1 WAL is only available as a trunk side termination on suitably equipped electronic switch, e.g., 1/1A ESS with Digital Carrier Termination (DCT) or DMS-100 with a Line Trunk Unit (LTU). (T)

2. Technical Specification Packages

| Parameters | Package WAL - | | |
|----------------------------|---------------|---|---|
| | 1 | 2 | 3 |
| Attenuation Distortion | X | X | |
| Bit error rate | | | X |
| C-Message Noise | X | X | |
| Echo Control | X | X | |
| Envelope Delay Distortion | X | X | |
| Frequency Shift | X | X | |
| Impulse Noise | X | X | |
| Intermodulation Distortion | X | X | |
| Loss Deviation | X | X | |
| Phase Jitter | X | X | |
| Signal-to-C Notch Noise | X | X | |

The technical specifications are delineated in Technical Reference TR-NPL-000334.

3. The following interfaces are available with WAL Service:

LO, LS, DS, GO, GS, RV, EA, EB

Compatible channel interfaces are set forth in Technical Reference TR-NPL-000334.

4. Optional Features and Functions

a. Two-wire and four-wire Central Office bridging capability.

b. Improved two-wire voice transmission specifications.

c. Certain other options associated with WAL services such as WATS (a.k.a. BellSouth SPA WATS Line) Access Line Nonchargeable Termination Options and Common Switching Optional Features are available as defined in Section E6. preceding. (T)

BELLSOUTH
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ISSUED: October 30, 2020
BY: President - Georgia
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ACCESS SERVICES TARIFF

Third Revised Page 17
Cancels Second Revised Page 17

EFFECTIVE: December 1, 2020

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.3 Voice Grade (a.k.a. BellSouth SPA DS0 VG) Service (Cont'd)**

- F. WATS Access Line (WAL) (a.k.a. BellSouth SPA WATS Line) service (Cont'd)
4. Optional Features and Functions (Cont'd)
- d. One-way or Two-way Capability

E7.2.4 Wired Music⁽¹⁾ Service

(N)

A. Basic Channel Description

A Wired Music⁽¹⁾ channel is a channel specified in bandwidth for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Wired Music⁽¹⁾ channels are provided between customer designated premises and a Company Hub.

(N)

(N)

B. Technical Specifications Packages

| Parameter | Package AP- | | | |
|----------------------|-------------|---|---|---|
| | 1 | 2 | 3 | 4 |
| Actual Measured Loss | X | X | X | X |
| Amplitude Tracking | | | | |
| Crosstalk | X | X | X | X |
| Distortion Tracking | | | | |
| Gain/Frequency | | | | |
| Distortion | X | X | X | X |
| Group Delay | | | | |
| Noise | X | X | X | X |
| Phase Tracking | | | | |
| Short Term Gain | | | | |
| Stability | | | | |
| Short-Term Loss | | | | |
| Total Distortion | X | X | X | X |

The technical specifications are delineated in Technical Reference TR-NPL-000337.

C. Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Wired Music⁽¹⁾ channel:

(N)

| CI | Bandwidth |
|------|---------------------------------------|
| PG-3 | Nominal frequency from 200 to 3500 Hz |
| PG-5 | Nominal frequency from 100 to 5000 Hz |
| PG-8 | Nominal frequency from 50 to 8000 Hz |

Compatible channel interfaces are set forth in Technical Reference TR-NPL-000337.

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

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BELLSOUTH
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ISSUED: October 30, 2020
BY: President - Georgia
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ACCESS SERVICES TARIFF

Fifth Revised Page 18
Cancels Fourth Revised Page 18

EFFECTIVE: December 1, 2020

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.4 Wired Music⁽¹⁾ Service (Cont'd)**

(N)

D. Optional Features and Functions

1. Central Office Bridging Capability
Distribution Amplifier
2. Gain Conditioning

Control of 1004 Hz AML at initiation of service to 0db + or - 0.5 dB.

Available with Technical Specifications Package AP-

| | 1 | 2 | 3 | 4 |
|------------------------------------|---|---|---|---|
| Central Office Bridging Capability | | | | |
| | X | X | X | X |
| Gain Conditioning | X | X | X | X |

E7.2.5 Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) Service**A. Basic Channel Description**

A Digital Data (*a.k.a. BellSouth SPA DS0 Digital Data*) channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56, or 64 Kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Company through the Company's facilities to the customer in the received bit stream. Digital Data (*a.k.a. BellSouth SPA DS0 Digital Data*) channels are only available via Company designated Digital Data (*a.k.a. BellSouth SPA DS0 Digital Data*) Hubs and are provided between customer designated premises or between a customer designated premises and a Company Digital Data (*a.k.a. BellSouth SPA DS0 Digital Data*) Hub.

A Hub termination charge applies per Digital Local Channel. This rate element covers the Hub functions (e.g., timing, testing) for the service.

Secondary Channel Capability (SCC) is a derived companion digital transmission path that is independent of the primary data path and operates at a substantially lower bit rate. This derived channel allows the customer to perform network management functions during the normal operation of the network. This diagnostics channel utilizes a portion of a customer's previously unavailable data bit stream allowing for the ability to remotely control and test the network and peripheral devices without taking the network out of service. Special customer equipment is necessary to utilize the benefits of the Secondary Channel. Customers not wishing to utilize this capability will not be impacted. Due to transmission equipment restrictions, Secondary Channel cannot be provided on 56 Kbps circuits that require the installation of loop repeater equipment for provision of service. Secondary Channel capability, also, cannot be provided on 64 Kbps circuits, since all of the available bit stream will be used by the customer.

The customer will provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

B. Technical Specifications Packages

| | Package DA- | | | | | |
|--------------------|--------------------|----------|----------|----------|----------|----------|
| Parameter | 1 | 2 | 3 | 4 | 5 | 6 |
| Error-Free Seconds | X | X | X | X | X | X |

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

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BELLSOUTH
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GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

First Revised Page 18.1
Cancels Original Page 18.1

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

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E7.2 Service Descriptions (Cont'd)**E7.2.5 Digital Data Access (*a.k.a. BellSouth SPA DS0 Digital Data*) Service (Cont'd)**

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B. Technical Specifications Packages (Cont'd)

The Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875 percent error-free seconds¹ while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Note 1: This channel performance does not apply when the Data Over Voice Channel option is used.

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Eighth Revised Page 19
Cancels Seventh Revised Page 19

ISSUED: September 6, 2012
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: October 6, 2012

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.2 Service Descriptions (Cont'd)

E7.2.5 Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) Service (Cont'd)

B. Technical Specifications Packages (Cont'd)

Interface options and service objectives for Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service are delineated in Technical Reference TR-NPL-000341.

C. Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a Digital Data (a.k.a. BellSouth SPA DS0 Digital Data) channel:

| CI | Bit Rate |
|-----------------------|-----------|
| DU-24(S) ¹ | 2.4 Kbps |
| DU-48(S) ¹ | 4.8 Kbps |
| DU-96(S) ¹ | 9.6 Kbps |
| DU-19(S) ¹ | 19.2 Kbps |
| DU-56(S) ¹ | 56.0 Kbps |
| DU-64 | 64.0 Kbps |

Compatible channel interfaces are set forth in Technical Reference TR-NPL-000-341.

D. Optional Features and Functions

1. Central Office Bridging Capability
2. Secondary Channel Capability
3. ***BellSouth Customer Network Management Service***

BellSouth Customer Network Management Service provides the customer the ability to monitor and reconfigure Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service provided by the Company. ***BellSouth Customer Network Management Service*** is described in E7.4.12 following. Charges for this feature are contained in E7.5.16 following.

4.

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Note 1: (S) is an additional BellSouth designation for use when the optional Secondary Channel feature is required.

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Fifth Revised Page 19.1
Cancels Fourth Revised Page 19.1

ISSUED: September 6, 2012
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: October 6, 2012

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.5 Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) Service (Cont'd)****D. Optional Features and Functions (Cont'd)**

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

| | Available with Technical Specifications Package DA- | | | | | |
|--|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| Central Office Bridging | | | | | | |
| Capability | X | X | X | X | X | |
| Secondary Channel Capability | X | X | X | X | X | |
| <i>BellSouth Customer Network Management Service</i> | X | X | X | X | X | X |

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E7.2.6 High Capacity (a.k.a. BellSouth SPA High Capacity) Service**A. Basic Channel Description**

A High Capacity (a.k.a. BellSouth SPA High Capacity) channel is a channel for the transmission of nominal 64.0 Kbps1 or 1.544, 3.152, 6.312, or 44.736 Mbps isochronous serial data. The actual bit rate is a function of the channel interface selected by the customer. High Capacity (a.k.a. BellSouth SPA High Capacity) channels are provided between customer designated premises or between a customer designated premises and a Company Hub.

The customer will provide the Network Channel Terminating Equipment associated with the High Capacity (a.k.a. BellSouth SPA High Capacity) channel at the *customer's* premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

B. Technical Specifications Packages

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

Note 1: Available only as a cross connect (through connection) of two 2.4, 4.8, 9.6, 19.2, 56.0 or 64.0 Kbps channels of two 1.544 Mbps facilities to a Digital Data (a.k.a. BellSouth SPA DS0 Digital Data) Hub(s). The customer must provide system and channel assignment data.

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: October 25, 2011
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Sixth Revised Page 20
Cancels Fifth Revised Page 20

EFFECTIVE: November 1, 2011

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.6 High Capacity (*a.k.a. BellSouth SPA High Capacity*) Service (Cont'd)****B. Technical Specifications Packages (Cont'd)**

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75 percent over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference TR-NPL-000054.

C. Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a High Capacity (*a.k.a. BellSouth SPA High Capacity*) channel:

| CI | Bit Rate |
|--------------------|-------------------|
| DS-15 ¹ | 1.544 Mbps (DS1) |
| DS-31 | 3.152 Mbps (DS1C) |
| DS-44 | 44.736 Mbps (DS3) |
| DS-63 | 6.312 Mbps (DS2) |

Compatible channel interfaces are set forth in Technical Reference TA-TSY -000342.

D. Optional Features and Functions

1.

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2. Clear Channel Capability

- a. Clear Channel Capability (CCC) is an arrangement that alters a DS1/1.544 Mbps signal with unconstrained information bits, to meet pulse density requirements outlined in TR-NPL-000054 and TA-TSY-000342. This will allow a customer to transport an all zero octet over a DS1/1.544 Mbps High Capacity (*a.k.a. BellSouth SPA DS1*) channel, providing an available combined maximum 1.536 Mbps data rate. This arrangement requires the customer signal at the channel interface to conform to Bipolar with 8 Zero Substitution (B8ZS) line code as described in TR-NPL-000054 and TA-TSY-000342.
- b. CCC is provided on DS1/1.544 Mbps High Capacity (*a.k.a. BellSouth SPA DS1*) channels between two customer designated premises, or between a customer designated premises and a Company Hub location, and is subject to the availability of facilities. This optional feature may be ordered at the same time the DS1/1.544 Mbps High Capacity (*a.k.a. BellSouth SPA DS1*) channel is ordered, or it may be ordered as an additional feature of an existing channel.
- c. When providing CCC via a DS3/44.736 Mbps High Capacity (*a.k.a. BellSouth SPA DS3*) channel, that DS3 channel must be designated, in Company records, as having Clear Channel Capability prior to the provisioning of a DS1/1.544 Mbps High Capacity (*a.k.a. BellSouth SPA DS1*) channel with CCC. Customers must agree to out-of-service periods required to add this feature to; 1) an existing DS1/1.544 Mbps High Capacity (*a.k.a. BellSouth SPA DS1*) channel or 2) a DS3/44.736 Mbps High Capacity (*a.k.a. BellSouth SPA DS3*) channel which transports a DS1/1.544 Mbps High Capacity (*a.k.a. BellSouth SPA DS1*) channel, to be optioned for B8ZS.

Note 1: A 64.0 Kbps channel is available as a channel(s) of a 1.544 Mbps facility to a Company hub.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Third Revised Page 20.1
Cancels Second Revised Page 20.1

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

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E7.2 Service Descriptions (Cont'd)**E7.2.6 High Capacity (*a.k.a. BellSouth SPA High Capacity*) Service (Cont'd)**

(T)

D. Optional Features and Functions (Cont'd)

3. Channelization

b. DS3 to DS1

An arrangement that channelizes a 44.736 Mbps channel to 28 DS1 channels.

c. DS2 to DS1

An arrangement that channelizes a 6.312 Mbps channel to a four DS1 channels.

d. DS1C to DS1

An arrangement that channelizes a 3.152 Mbps channel to two DS1 channels.

e. DS1 Basic Channelization System

An arrangement that channelizes a 1.544 Mbps channel to a maximum of twenty-four 64.0 Kbps channels that may be used to activate both analog and digital services, e.g., voice grade, program audio, and digital data access service. A DS1 Basic Channelization System requires a Central Office Channel Interface for each channel of lesser capacity.

f. DS0 Basic Channelization System

An arrangement that channelizes a 64.0 Kbps channel to subspeeds of up to twenty 2.4 Kbps, ten 4.8 Kbps, or five 9.6 Kbps channels. A DS0 Basic Channelization System requires a Central Office Channel Interface for each channel of lesser capacity.

4. Channel Interface

a. DS1 Level Central Office Channel Interface

An arrangement for the connection of DS1 (1.544 Mbps) channels to higher order DS3 (44.736 Mbps) services in Company central office locations.

b. DS1 Level Customer Channel Interface

An arrangement for the connection of DS1 (1.544 Mbps) channels to higher order DS3 (44.736 Mbps) services at customer locations.

c. DS0 Level Central Office Channel Interface

An arrangement for the connection of VG/DS0 (2.4 - 64.0 Kbps) channels to higher order DS1 (1.544 Mbps) services in Company central office locations.

d. Subrate Level Central Office Channel Interface

An arrangement for the connection of subrate (2.4 - 9.6 Kbps) channels to higher order DS0 (64.0 Kbps) services in Company central office locations.

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ISSUED: October 25, 2011
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Twelfth Revised Page 21
Cancels Eleventh Revised Page 21

EFFECTIVE: November 1, 2011

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.6 High Capacity (a.k.a. BellSouth SPA High Capacity) Service (Cont'd)****D. Optional Features and Functions (Cont'd)****5. *BellSouth Customer Network Management Service***

BellSouth Customer Network Management Service provides the customer the ability to monitor and reconfigure High Capacity (a.k.a. BellSouth SPA High Capacity) service provided by the Company. ***BellSouth Customer Network Management Service*** is described in E7.4.12 following. Charges for this feature are contained in E7.5.16 following.

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

| | Available With Technical Specifications Package HC- | | | | |
|---|---|---|----|---|---|
| | 0 | 1 | 1C | 2 | 3 |
| Channelization: | | | | | |
| DS3 to DS1 | | | | | X |
| DS2 to DS1 | | | | X | |
| DS1C to DS1 | | | X | | |
| DS1 Basic Channelization System | | X | | | |
| DS0 Basic Channelization System ¹ | X | | | | |
| Clear Channel Capability | | X | | | |
| <i>BellSouth Customer Network Management Service</i> | X | X | | | |

(D)

E7.2.7 Reserved for Future Use**E7.2.8 Reserved for Future Use****E7.2.9 Reserved for Future Use****E7.2.10 Reserved for Future Use****E7.2.11 Reserved for Future Use**

Note 1: Available only on 64.0 Kbps DDAS service or on a DS1 (1.544 Mbps) channel with Clear Channel Capability to a Company hub.

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ACCESS SERVICES TARIFF

First Revised Page 21.0.1
Cancels Original Page 21.0.1

ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.2 Service Descriptions (Cont'd)

E7.2.12 SMARTPath Service (a.k.a. BellSouth SPA Shared Ring)

A. Service Description

SMARTPath service (a.k.a. BellSouth SPA Shared Ring) is a shared high capacity network service capable of providing a 1.544 Mbps transport link with high performance and reliability parameters and a level of redundancy/diversity designed to limit a single event from interrupting service. This service is available only in those locations within specified SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Areas, which the Company determines can be incorporated into the SMARTPath service (a.k.a. BellSouth SPA Shared Ring) network enabling the Company to provide the specified level of performance and reliability. For locations where a customer requests SMARTPath service (a.k.a. BellSouth SPA Shared Ring) and facilities are not available, special construction charges will apply as set forth in Section E14., following. SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Areas are identified in the NATIONAL EXCHANGE CARRIER (NECA) TARIFF F.C.C. No. 4. (T)

SMARTPath service (a.k.a. BellSouth SPA Shared Ring) provides a transport link between a customer designated premises where the network is accessed and (1) another customer designated premises, in the same SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area or (2) a serving wire center in the same SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area for connection to (a) DS1 Basic Channelization, **BellSouth Customer Network Management Service**, SMARTRing service (a.k.a. BellSouth Dedicated Ring) or DS3 service as provided in Section E7. of this Tariff, or (b) a SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area Junction of another SMARTPath service area in the same Metropolitan Area. (C)

The technical specifications and standard network interfaces for SMARTPath service (a.k.a. BellSouth SPA Shared Ring) are contained in BellSouth Services Technical Reference Publication 73575. This publication is available from BellSouth Telecommunications, Inc. Regional Documentation Coordinator, 20th Floor, 600 North 19th Street, Birmingham, Alabama 35203. (T)

DS1s carried over Synchronous Optical Network (SONET) transport systems can incur phase transients as a result of pointer adjustments. In some instances timing problems could surface in customer's equipment with Stratum 3 or better clocks. This may result in the customer's clock *disqualifying* its synchronization reference, generating an alarm and/or selecting an alternate reference or entering holdover. To insure proper operation, channelized DS1 circuits must comply with Bellcore Technical Advisory, TA-NWT-000436, Digital Synchronization Network Plan, and ANSI T1.101-1994. When timing is taken from a Company transported DS1, the customer's equipment must be capable of accommodating SONET pointer adjustments. (T)

B. Performance Objectives

ANSI T1.403-1989 Extended SuperFrame Format (ESF) is required on all circuits in order to assure performance objectives. The performance objectives for SMARTPath service (a.k.a. BellSouth SPA Shared Ring) are as follows: (T)

1. Meet or exceed 99.99 percent Circuit Availability on a monthly basis. This objective applies except where a customer's equipment is disconnected and/or inoperative.
2. Meet or exceed 99.95 percent Error Free Seconds on a monthly basis.
3. Meet or exceed .009 percent Severely Errored Seconds on a monthly basis.

C. Performance Guarantees

The performance guarantees for SMARTPath service (a.k.a. BellSouth SPA Shared Ring) are as follows: (T)

1. Guaranteed service installation - the Company will meet negotiated due date or credit an amount equal to the nonrecurring charge according to the Service Installation Guarantee described in E2.4.9 preceding.
2. Service Continuity - in the event of primary facility failure, service is guaranteed to switch to an alternate facility path in sixty (60) seconds or less. Failure to meet this guarantee will result in a credit as described in E2.4.4.B.7. preceding, where the trouble is in the network.

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ISSUED: October 10, 2014
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Fifth Revised Page 21.1
Cancels Fourth Revised Page 21.1

EFFECTIVE: November 9, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.2 Service Descriptions (Cont'd)

E7.2.13 Reserved for Future Use

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ACCESS SERVICES TARIFF

Fifth Revised Page 21.1.1
Cancels Fourth Revised Page 21.1.1

ISSUED: October 10, 2014
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: November 9, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.2 Service Descriptions (Cont'd)

E7.2.14 Reserved for Future Use

(T)

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: October 10, 2014
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Sixth Revised Page 21.2
Cancels Fifth Revised Page 21.2

EFFECTIVE: November 9, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)**

(T)

E7.2.14 Reserved for Future Use (Cont'd)**E7.2.15 Derived Data Channel (a.k.a. BellSouth SPA Derived Data Channel) Service****A. Basic Service Description**

Derived Data Channel (a.k.a. BellSouth SPA Derived Data Channel) service (DDCS) provides full-duplex asynchronous or synchronous data transmission utilizing data over voice and subrate multiplexing technology. DDCS (a.k.a. BellSouth SPA Derived Data Channel) provides simultaneous data and voice transmissions over the customer's existing two-wire local exchange facility. A derived data channel is provided between the customer's premises and the customer's serving wire center.

At the customer's serving wire center the data/voice terminating equipment provides subrate multiplexing into a standard DS0-B interface for a group composed of a maximum of twenty derived data channels. The customer's derived data channel must be associated with a DS0-B interface. This association requires coordination between the subscriber of the derived data channel and the subscriber of the DS0-B interface. An interoffice channel is provided for interconnection of the subrate multiplexed DS0-B interface to the serving wire center of a customer designated premises.

DDCS (a.k.a. BellSouth SPA Derived Data Channel) is provided subject to the availability of appropriate network facilities and equipment and subject to the transmission limitations of the facilities and equipment used by the Company.

The customer will be responsible for selecting his own Customer Premises Equipment (CPE). CPE must be compatible with the Company provided terminating equipment at the serving wire center.

B. Channel Interfaces

The following channel interface (CI) defines the bit rate that is available with DDCS (a.k.a. BellSouth SPA Derived Data Channel).

CI
2DV5.BA

Bit Rate
2.4 Kbps, Digital Data Over Voice

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ACCESS SERVICES TARIFF

Fourth Revised Page 21.3
Cancels Third Revised Page 21.3

ISSUED: June 4, 2015
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: July 4, 2015

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.2 Service Descriptions (Cont'd)

E7.2.15 Derived Data Channel (a.k.a. BellSouth SPA Derived Data Channel) Service (Cont'd)

B. (Cont'd)

Compatible channel interface specifications are contained in BellSouth Technical Reference Publication 73548 for data/voice multiplexing equipment and BellSouth Technical Reference 73548, Addendum 1, for access to a DS0-B interface. These publications are available from the Information Exchange Manager, BellSouth Telecommunications, Inc., Regional Documentations Coordinator, 20th Floor, 600 North 19th Street, Birmingham, Alabama 35203.

E7.2.16 SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring)

A. Self-healing Multi-nodal Alternate Route Topology Ring

1. SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) is a dedicated, high capacity, network designed to provide increased reliability and functionality via a self-healing ring topology between multiple customer designated locations and Telephone Company Central Offices where facilities can be made available as determined by the Company. This network consists of fiber routed through local, alternate central office, internodal and/or interoffice channel facilities that transmit DS1, DS3, STS-1, OC-3, OC-12, **OC-48** and **1000 Mbps** channel services simultaneously over primary and alternate paths between customer designated locations and Telephone Company Central Offices. This ring topology will continually monitor DS1, DS3, STS-1, OC-3, OC-12, **OC-48** and/or **1000 Mbps** service quality, detect any failure within the system, and automatically self-heal around a point of failure to ensure the flow of DS1, DS3, STS-1, OC-3, OC-12, **OC-48** and/or **1000 Mbps** Services between locations within the network.
2. SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) is available at OC-1, OC-3, OC-3+ OC-12, OC-48, OC-48+, **OC-192** and **OC-192+** capacities.
3. OC-1 SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) is available only in Overlay Ring Arrangements riding the customer's host OC-12, OC-48, or OC-48+ SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring). The OC-1 SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) shares the transport of its host SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring). OC-1 SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) provides an equivalent capacity of 28 DS1s or one STS-1. When an OC-1 SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) overlays an OC-12, OC-48, or OC-48+ SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring), an OC-1 channel interface is required.
4. OC-3 SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) is available as an individual service or in an Overlay Ring Arrangement riding the customer's host OC-12, OC-48, OC-48+, **OC-192** or **OC-192+** SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring). OC-3 SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) provides an equivalent capacity of 3 DS3s, or any combination thereof not to exceed an OC-3 capacity.
Channel Interface Reallocation allows the customer to reallocate STS-1, DS3 and/or DS1 capacities to OC-3 nodes subsequent to the initial configuration of an OC03 ring.
5. OC-3+ SMARTRing^{®(1)} service (a.k.a. BellSouth Dedicated Ring) is available as an individual service, or in combination with OC-12 SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring), or in an Overlay Ring Arrangement riding the customer's host OC-48, **OC-192** or **OC-192+** SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring). OC-3+ SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) provides an equivalent OC-3 capacity, not to exceed 3 DS3s at each node, with a maximum ring capacity of 12 DS3s, not to exceed an OC-12 ring capacity. (N)
6. When a customer orders OC-3+ SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) in combination with OC-12 SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring), capacity and channel interface availability at each Customer Node and Central Office Node location is determined by the size node ordered by the customer.
7. OC-12 SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) is available as an individual service, or in combination with OC-3+ SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring), or in an Overlay Ring Arrangement riding the customer's host OC-48, **OC-48+**, **OC-192** or **OC-192+** SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring). OC-12 SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) provides an equivalent capacity of 12 DS3s.

- (1) Effective July 4, 2015, the Company will accept only disconnect orders for OC-3+ SMARTRing service (a.k.a. BellSouth SPA Dedicated Ring), including orders associated with existing service. Move, add or change orders will no longer be accepted. (N)
(N)
(N)

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: September 29, 2003
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Original Page 21.3.1

EFFECTIVE: October 30, 2003

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.16 SMARTRing® service (a.k.a. BellSouth Dedicated Ring) (Cont'd)**

- A. Self-healing Multi-nodal Alternate Route Topology Ring (Cont'd) (N)
8. OC-48 SMARTRing® service (a.k.a. BellSouth Dedicated Ring) is available as an individual service, *or in an Overlay Ring Arrangement riding the customer's host OC-192 or OC-192+ SMARTRing® service (a.k.a. BellSouth Dedicated Ring)*, or with overlaying rings in capacities of OC-1, OC-3, OC-3+ and/or OC-12. OC-48 SMARTRing® service (a.k.a. BellSouth Dedicated Ring) provides an equivalent capacity of 48 DS3s. (C)(M)
 9. OC-48+ SMARTRing® service (a.k.a. BellSouth Dedicated Ring) is available as an individual bi-directional service, *or in an Overlay Ring Arrangement riding the customer's host OC-192 SMARTRing® service (a.k.a. BellSouth Dedicated Ring)*, or with overlaying rings in capacities of OC-1, OC-3, *OC-3+* and/or *OC-12*. It provides equivalent capacity of 24 DS3s between consecutive node locations on the ring. The maximum capacity of the OC-48+ SMARTRing® service (a.k.a. BellSouth Dedicated Ring) is determined by the number of Customer and Central Office nodes on the ring. (C)(M)
 10. OC-192 SMARTRing® service (a.k.a. BellSouth Dedicated Ring) is available as an individual service, or with overlaying rings in capacities of OC-3, OC-3+, OC-12, OC-48 and /or OC-48+. OC-192 SMARTRing® service (a.k.a. BellSouth Dedicated Ring) provides an equivalent capacity of 192 DS3s. (N)
 11. OC-192+ SMARTRing® service (a.k.a. BellSouth Dedicated Ring) is available as an individual bi-directional service, or with overlaying rings in capacities of OC-3, OC-3+, OC-12 and /or OC-48. It provides equivalent capacity of 96 DS3s between consecutive node locations on the ring. The maximum capacity of the OC-192+ SMARTRing® service (a.k.a. BellSouth Dedicated Ring) is determined by the number of Customer and Central Office nodes on the ring. (N)

Material appearing on this page previously appeared on page(s) 21.3 of this section.

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GEORGIA
ISSUED: January 17, 2007
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Fourth Revised Page 21.4
Cancels Third Revised Page 21.4

EFFECTIVE: February 16, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.16 SMARTRing service (a.k.a. BellSouth Dedicated Ring) (Cont'd)****A. Self-healing Multi-nodal Alternate Route Topology Ring (Cont'd)**

12. SMARTRing service (a.k.a. BellSouth Dedicated Ring) Channel Interfaces are available as follows:

| <u>Channel Interfaces</u> | <u>Nodes</u> | | | | | | | |
|--|--------------|-------------|--------------|-----------------|------------------|------------------|-----------------|-----------------|
| | <u>OC-1</u> | <u>OC-3</u> | <u>OC-3+</u> | <u>OC-12</u> | <u>OC-48</u> | <u>OC-48+</u> | <u>OC-192</u> | <u>OC-192+</u> |
| DS1 | Yes | Yes | Yes | No ¹ | No ¹ | No ¹ | No ¹ | No ¹ |
| DS3 | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| STS-1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| OC-1 ² | No | No | No | Yes | Yes | Yes | Yes | Yes |
| OC-3 | No | No | No | Yes | Yes | Yes | Yes | Yes |
| OC-12 | No | No | No | No | Yes | Yes | Yes | Yes |
| 28 DS1 Channel System (DS3) | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 28 DS1 Channel System (STS-1) | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 1000 Mbps | No | No | No | No | Yes ³ | Yes ³ | Yes | Yes |
| 100 Mbps BellSouth Metro Ethernet Backbone ⁴ | No | No | No | Yes | Yes | Yes | Yes | Yes |
| 1000 Mbps BellSouth Metro Ethernet Backbone | No | No | No | No | Yes | Yes | Yes | Yes |
| Fractional 1000 Mbps at 150 Mbps, 300 Mbps or 450 Mbps, BellSouth Metro Ethernet Backbone ⁵ | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Fractional 1000 Mbps at 600 Mbps BellSouth Metro Ethernet Backbone ⁵ | No | No | No | No | Yes | Yes | Yes | Yes |

(N)

(N)

13. SMARTRing service (a.k.a. BellSouth Dedicated Ring) Overlay Ring Arrangements are available as follows:

**Overlaying SMARTRing service
(a.k.a. BellSouth Dedicated Ring)**

**Host SMARTRing service
(a.k.a. BellSouth Dedicated Ring)**

| | OC-12 | OC-48 | OC-48+ | OC-192 | OC-192+ |
|--------|-------|-------|--------|--------|---------|
| OC-1 | X | X | X | X | X |
| OC-3 | X | X | X | X | X |
| OC-3+ | | X | X | X | X |
| OC-12 | | X | X | X | X |
| OC-48 | | | | X | X |
| OC-48+ | | | | | X |

14. SMARTRing service (a.k.a. BellSouth Dedicated Ring) is connectible at Telephone Company Central Offices to any 44.736 Mbps and/or 1.544 Mbps services as provided in Section E7. of this Tariff. Rates and charges for such other services are as set forth in the applicable sections of this tariff for such other services.

15. Shared Network Arrangements will not be provided with SMARTRing service (a.k.a. BellSouth Dedicated Ring) at the ring level. Shared Network Arrangements as defined in E2.6 preceding apply to DS1 channel interfaces only.

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

16. Where the customer provides two separate entrance facility cable routes for SMARTRing service (a.k.a. BellSouth Dedicated Ring), the primary and alternate entrance facilities will be separate and will enter the customer node over such different routes. When the customer requests a connection at a Customer Node via two local channels and Telephone Company facilities do not exist for the second Local Channel, the Telephone Company may provide an equivalent second Local Channel via an existing alternate route. When facilities become available for the second Local Channel, the Telephone Company may rearrange the alternate route at any time.

Note 1: DS1 interfaces are available via OC-1, OC-3, and OC-3+ Overlay Ring Arrangements or 28 DS1 Channel Systems only.

Note 2: OC-1 interfaces are only available for use with OC-1 Overlay Ring Arrangements.

Note 3: 1000 Mbps interfaces are only available for rings installed after October 30, 2003. 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer.

Note 4: 100 Mbps BellSouth Metro Ethernet Backbone interfaces are further defined regarding the number of STS-1s utilized in conjunction with the interface.

Note 5: Interface availability is based on equipment capability.

(N)

BELLSOUTH
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ACCESS SERVICES TARIFF

Third Revised Page 21.5
Cancels Second Revised Page 21.5

ISSUED: January 17, 2007
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: February 16, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.16 SMARTRing service (a.k.a. BellSouth Dedicated Ring) (Cont'd)****A. Self-healing Multi-nodal Alternate Route Topology Ring (Cont'd)**

17. When the distance between nodes on a SMARTRing service (a.k.a. BellSouth SPA Dedicated Ring) is such that optical signal regeneration is required, then regeneration equipment will be provided at no additional charge to the customer to assure proper operation of the service. In some cases regeneration will be provided via SONET Add/Drop equipment called a Regeneration Node. A Regeneration Node does not contain the capability to add or drop services. Accordingly, FlexServ service (a.k.a. BellSouth SPA Customer Reconfiguration) Customer Network Management may not be ordered with a Regeneration Node, however, a customer may monitor a Regeneration Node via the BellSouth Customer Network Management Service Surveillance option when a customer has established surveillance for a ring. Regeneration Node Surveillance is provided as a part of the charges associated with the customer's ring level BellSouth Customer Network Management Service Surveillance. Regeneration Node and Regeneration Node Surveillance, as applicable, will appear on a customer's records as non-rated USOC(s), as follows:

| | |
|--|--------------|
| | USOC |
| Regeneration Node, all ring capacities, non-rated | SHNRD |
| Regeneration Node Surveillance, all ring capacities, non-rated | SHNRS |

18. Effective February 16, 2007, Shared Node Interconnection is available, based on equipment capability, whereby two SMARTRing service arrangements belonging to the same customer may share a node in a central office that is common to both rings. Shared Node Interconnection capability is available based on equipment capability. With Shared Node Interconnection, one of the rings (i.e., the larger capacity ring) is considered the Primary Ring and the other ring is considered the Secondary Ring. Primary Rings may be an OC-12, OC-48 or an OC-192 ring. A Secondary Ring is always a lower capacity ring than that of the Primary Ring. The various Shared Node Interconnection service arrangements that are available are as follows:

| Shared Node Interconnection Primary Ring Capacity | Shared Node Interconnection Secondary Ring Capacity Available For Use With Primary Rings | | | | (N) |
|--|---|-------|-------|--------|-----|
| | OC-3 | OC-12 | OC-48 | OC-48+ | (N) |
| OC-12 | X | | | | (N) |
| OC-48 | X | X | | | (N) |
| OC-192 | X | X | X | X | (N) |

With Shared Node Interconnection, the Primary Ring shall have a Central Office Node and the Secondary Ring shall have a Shared Node Interconnection Central Office Node in the central office associated with the ring interconnection. For the Secondary Ring, a Shared Node Interconnection Central Office Node is considered toward meeting the three node minimum requirement for the Secondary Ring. This shared node will utilize capacity of the Primary Ring node, based on the size of the Secondary Ring, and will count toward the capacity the customer has available at the location. Should the customer require more capacity at a shared node central office location than is available on the Primary Ring node, then additional billable service components will be required. (N)

Only one Shared Node Interconnection arrangement is available for an individual Central Office Node on a Primary Ring. (N)

Reconfiguration is not allowed at central office nodes that are configured for Shared Node Interconnection. (N)

B. Technical Specifications Packages

- The compatibility requirements, technical specifications, and generic requirements for SMARTRing service (a.k.a. BellSouth Dedicated Ring) terminated at the customers designated locations are referenced in Technical Reference ANSI T1.404-1994, ANSI T1.403-1989 and ANSI T1.105-1991.
- DS3 interface combinations and technical specifications are referenced in Bellcore TR-INS-000342.
- DS1 interface combinations and technical specifications are referenced in Bellcore TR-NPL-000054.
- STS-1, OC-1, OC-3, and OC-12 interface combinations and technical specifications are referenced in BellSouth Telecommunications, Inc. Technical Reference TR-73582.
- These self-healing multi-nodal DS3 high capacity (a.k.a. BellSouth SPA DS3) service channels have a long term performance objective of 99.5 percent error-free seconds and a severely errored second (SES) objective of less than 0.009 percent SES when the circuit is available. Self-healing multi-nodal DS1 high capacity (a.k.a. BellSouth SPA DS1) service channels have a long term performance objective of 99.95 percent error-free seconds.

E7.2.17 Reserved for Future Use

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BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: June 4, 2014
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Fourth Revised Page 21.6
Cancels Third Revised Page 21.6

EFFECTIVE: July 4, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.18 BellSouth Metro Ethernet Service**

- A.** BellSouth Metro Ethernet service is a high-speed packet transport that is based on Ethernet transmission parameters. BellSouth Metro Ethernet service provides various transport capabilities that range from 2 Mbps through 1 Gbps with capabilities for basic, premium and virtual arrangements that may be used to meet individual customer needs. (D)
- B.** BellSouth Metro Ethernet service signals meet IEEE 802.3, 802.3u, or 802.3z standards. BellSouth Metro Ethernet service also uses 802.1Q VLAN tagging and stacking for certain service configurations contained herein. Technical requirements for interfaces with customer premises equipment (CPE) are contained in ANSI/IEEE 802.3-2002 Specifications.
- C.** BellSouth Metro Ethernet service interface specifications are set forth in BellSouth Technical Reference TR-73632. Technical limitations associated with provisioning 2 Mbps, 4 Mbps and 8 Mbps BellSouth Metro Ethernet Connections based upon distance from the customer's premises to serving wire center and equipment configurations exist and are also set forth in TR-73632.
- D.** The rates and charges set forth in E7.5.22 following for BellSouth Metro Ethernet service provide for the furnishing of service in certain metropolitan areas where suitable Company facilities are available. In locations where BellSouth Metro Ethernet service is not available, special construction charges may apply.
- E.** A LAN (local area network) is a communications network spanning a limited geographical area. A LAN connects computers and other peripheral equipment for data communications purposes within a building or campus environment.
- F.** A VLAN (virtual local area network) is a logical grouping of Metro Ethernet connections that allows data transmission between such connections to occur as if all connections are on the same physical LAN.
- G.** Metro Ethernet is a service where Local Area Networks (LANs) send bi-directional Ethernet traffic to other LANs on an Ethernet Wide Area Network (WAN). Ethernet is one of the most widely deployed LAN/WAN standards. BellSouth Metro Ethernet service supports IEEE Standard 802.3, 802.3u and 802.3z transmission standards.
- H.** A Metro Ethernet Customer Network is defined as the set of interconnected Metro Ethernet connections assigned to the same VLAN within the BellSouth core network. Premium Connections that include the Q-Forwarding optional feature described in O. following and Virtual Connections that include the VLAN Aggregation optional feature described in P. following may be part of more than one Metro Ethernet Customer Network.
- I.** A Basic BellSouth Metro Ethernet service Connection provides 2 Mbps, 4 Mbps, 8 Mbps, 10 Mbps, 100 Mbps and 1 Gbps Ethernet capabilities that are a part of a BellSouth Metro Ethernet service network within a metropolitan area. Basic BellSouth Metro Ethernet service is a best effort service with service capabilities that are affected by overall traffic on the Basic BellSouth Metro Ethernet service network and is suitable for data transmission only.

A Basic BellSouth Metro Ethernet service connection operating at any of these speeds is capable of interconnecting with other Basic BellSouth Metro Ethernet service Connections that are operating at any of these speeds in the same metropolitan area.

A Basic BellSouth Metro Ethernet service connection provides data channel transport that connects customer premises¹ that are 10 miles or less in distance from the BellSouth Metro Ethernet service wire center associated with the Basic BellSouth Metro Ethernet service Connection. Customer locations¹ greater than 10 miles from the Basic BellSouth Metro Ethernet service wire center also require BellSouth Metro Ethernet service Additional Mileage charges.

Note 1: And as alternatively set forth in E7.4.32.A.5 *and* 6. following.

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Third Revised Page 21.6.1
Cancels Second Revised Page 21.6.1

ISSUED: March 16, 2007
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.18 BellSouth Metro Ethernet Service (Cont'd)**

- J.** A Premium BellSouth Metro Ethernet service Connection provides 2 Mbps, 4 Mbps, 8 Mbps, 10 Mbps, 20 Mbps, 50 Mbps, 100 Mbps, 250 Mbps, 500 Mbps and 900 Mbps Ethernet capabilities that are a part of a BellSouth Metro Ethernet service network within a metropolitan area. Premium BellSouth Metro Ethernet service provides the ability to order Ethernet Service with improved service characteristics to meet customer needs regarding the assurance of bandwidth availability.

Premium BellSouth Metro Ethernet service provides customer capabilities to assure service characteristics via ordering a Committed Bandwidth (CBW). A CBW is the minimum bandwidth across the BellSouth Metro Ethernet service network within a metropolitan area between a customer's Premium BellSouth Metro Ethernet service locations.

Premium BellSouth Metro Ethernet service Connections are available with "Fixed" and "Burst" capabilities unless specified otherwise¹. With the Fixed arrangement, Premium BellSouth Metro Ethernet service Connections will have the bandwidth ordered (e.g., 10 Mbps) available across the BellSouth Metro Ethernet service network. With the Burst arrangement, Premium BellSouth Metro Ethernet service Connections will have the ability to send burst of data above their CBW rate, if network capacity *and facilities are* available. For example, a 10 Mbps, a 20 Mbps and a 50 Mbps Connection may Burst up to 100 Mbps, while a 100 Mbps, a 250 Mbps and a 500 Mbps Connection may Burst up to 1 Gbps.

(C)

A Premium BellSouth Metro Ethernet service Connection operating at any of these speeds is capable of interconnecting with other Premium BellSouth Metro Ethernet service Connections that are operating at any of these speeds in the same metropolitan area.

A Premium BellSouth Metro Ethernet service Connection provides data channel transport that connects customer premises² that are 10 miles or less in distance from the BellSouth Metro Ethernet service wire center associated with the Premium BellSouth Metro Ethernet service Connection. Customer locations² greater than 10 miles from the Premium BellSouth Metro Ethernet service wire center also require BellSouth Metro Ethernet service Additional Mileage charges.

Note 1: Premium Connections at 2 Mbps, 4 Mbps, 8 Mbps and 900 Mbps are available only as Fixed arrangements (i.e., "Burst" capability is not available).

Note 2: And is alternatively set forth in E7.4.32.A.5. and 6. following.

BELLSOUTH
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ISSUED: June 4, 2014
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Fourth Revised Page 21.7
Cancels Third Revised Page 21.7

EFFECTIVE: July 4, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.18 BellSouth Metro Ethernet Service (Cont'd)****K.**

- L.** A Virtual BellSouth Metro Ethernet Service Connection provides 2 Mbps, 4 Mbps, 8 Mbps, 10 Mbps, 20 Mbps, 50 Mbps, 80 Mbps, 100 Mbps, 200 Mbps, 300 Mbps, 450 Mbps, 600 Mbps, 750 Mbps and 900 Mbps Ethernet capabilities that are a part of a BellSouth Metro Ethernet Service network within a metropolitan area. Virtual BellSouth Metro Ethernet Service provides the ability to order Ethernet Service where a single customer connection can support multiple applications with varying Quality of Service (QoS) features and Classes of Service.

Virtual BellSouth Metro Ethernet Service provides customer capabilities to support different Classes of Service (CoS) (i.e., Real-Time, Interactive, Business Critical and Best Effort as described in E7.2.18.T) over the same Connection and offers customers increased flexibility to match bandwidth to their real needs for voice/data/video applications on each Connection. The customer orders the percentage of their Virtual BellSouth Metro Ethernet Service Connection bandwidth that will be allocated for each class of service.

For each Virtual Connection, the customer's bandwidth will be limited to the fixed speed associated with each CoS level specified in the CoS profile selected for the Virtual Connection.

A Virtual BellSouth Metro Ethernet Service Connection operating at any of these speeds is capable of interconnecting with other Virtual BellSouth Metro Ethernet Service Connections that are operating at any of these speeds in the same metropolitan area.

A Virtual BellSouth Metro Ethernet Service Connection provides data channel transport that connects customer premises¹ that are 10 miles or less in distance from the BellSouth Metro Ethernet Service wire center associated with the Virtual BellSouth Metro Ethernet Service Connection. Customer locations¹ greater than 10 miles from the Virtual BellSouth Metro Ethernet Service wire center also require BellSouth Metro Ethernet Service Additional Mileage charges.

Note 1: And as alternatively set forth in E7.4.32.A.5. *and 6.* following.

(D)
|
(D)

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GEORGIA
ISSUED: June 4, 2014
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Fourth Revised Page 21.7.1
Cancels Third Revised Page 21.7.1

EFFECTIVE: July 4, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.18 BellSouth Metro Ethernet Service (Cont'd)**

- M.** BellSouth Metro Ethernet service Additional Mileage charges associated with a BellSouth Metro Ethernet service Connection apply when the total distance from the customer premises¹ to the BellSouth Metro Ethernet service wire center associated with the service serving the customer premises¹ is greater than 10 miles in length. The additional mileage is measured in airline miles from the customer premises¹ to the BellSouth Metro Ethernet service wire center associated with the BellSouth Metro Ethernet service. Fractions of miles will be considered as a whole mile.

BellSouth Metro Ethernet service Additional Mileage charges apply to Basic, Premium and Virtual BellSouth Metro Ethernet service based on the service's speed and the total distance associated with the data channel. The BellSouth Metro Ethernet service Additional Mileage Charge is based on the mileage band the total data channel mileage falls into. For example, a data channel that is 30 miles in length would be charged the additional mileage rate for the greater than 25 mile through 35 mile band.

(D)

- N.** Priority Plus is an optional feature available to customers with Premium BellSouth Metro Ethernet service. Priority Plus provides the customer with the ability to prioritize their traffic in accordance with a predefined hardware queue model approach. With this option, customers will assign priority values to their data and higher-priority data will be transmitted first. Priority Plus service traffic is limited to a small subset of the total Committed Bandwidth (CBW) traffic and is marked for expedited handling within the Metro Ethernet Service. Customers that desire Priority Plus must establish it for all of their Premium BellSouth Metro Ethernet service Connections within that Metro Ethernet Customer Network.
- O.** Q-Forwarding is an optional feature available to customers with Premium BellSouth Metro Ethernet service. Q-Forwarding provides VLAN aggregation across a common physical connection. This feature supports customer aggregation of traffic from multiple Metro Ethernet Customer Networks (referred to as VLANS). This aggregated traffic can be transported back to a central location and across a common Metro Ethernet Service Connection (referred to as the "aggregation" connection). Q-Forwarding utilizes IEEE 802.1Q VLAN Tagging procedures.

While Q-Forwarding is available with BellSouth Premium Metro Ethernet Connections at 2 Mbps, 4 Mbps and 8 Mbps, this feature is subject to technical limitations set forth in Technical Reference 73632 when used with these speed connections.

With Q-Forwarding, special technical considerations set forth in Technical Reference 73632 must be taken into account to determine the customer's CBW across their BellSouth Metro Ethernet Network.

The Q-Forwarding Service Establishment Charge is a charge to provision a Premium Metro Ethernet Connection with the Q-Forwarding feature and identify it as an "aggregation" connection.

The Q-Forwarding Network Assignment Charge is a charge to provision each Metro Ethernet Customer Network to the Q-Forwarding "aggregation" connection. The Q-Forwarding Network Assignment Charge applies for each VLAN connected to the Q-Forwarding "aggregation" connection.

- P.** VLAN Aggregation is an optional feature available to customers with Virtual BellSouth Metro Ethernet Service. VLAN Aggregation provides VLAN aggregation across a common physical connection. This feature supports customer aggregation of traffic from multiple Metro Ethernet Customer Networks (referred to as VLANS) comprised of Virtual Connections. This aggregated traffic can be transported back to a central location and across a common Virtual Metro Ethernet Service Connection (referred to as the "aggregation" connection). VLAN Aggregation utilizes IEEE 802.1Q VLAN Tagging procedures.

While VLAN Aggregation is available with BellSouth Virtual Metro Ethernet Connections at 2 Mbps, 4 Mbps and 8 Mbps, this feature is subject to technical limitations set forth in Technical Reference 73632 when used with these speed connections.

The VLAN Aggregation Service Establishment Charge is a charge to provision a Virtual Metro Ethernet Connection with this feature and identify it as an "aggregation" connection.

The VLAN Aggregation Network Assignment Charge is a charge to provision each Virtual Ethernet Customer Network to the "aggregation" connection. The VLAN Aggregation Network Assignment Charge applies for each VLAN connected to the "aggregation" connection.

- Q. Customer Network Management (CNM) -** Metro Ethernet Reporting is an optional feature available to customers with Premium or Virtual BellSouth Metro Ethernet service. **CNM -** Metro Ethernet Reporting provides customers a view into their BellSouth Metro Ethernet service network via the use of a web interface and security card. **CNM -** Metro Ethernet Reporting provides alarm surveillance, service level agreement reporting and performance reporting for the various network components that comprise the customer's BellSouth Metro Ethernet service network. This feature is only available to customers purchasing Premium or Virtual BellSouth Metro Ethernet service.

Customers who subscribe to **CNM -** Metro Ethernet Reporting must monitor their entire BellSouth Metro Ethernet Network. The **CNM -** Metro Ethernet Reporting Charge is applicable for each Premium or Virtual Metro Ethernet Service Connection.

The **CNM -** Metro Ethernet Reporting Service Establishment Charge is a nonrecurring charge that applies to initially establish a new Metro Ethernet Service customer account. A customer with an existing **CNM -** Metro Ethernet Reporting customer account from another BellSouth jurisdiction may re-use that customer account.

Note 1: And as alternatively set forth in E7.4.32.A.5. and 6. following.

BELLSOUTH
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ACCESS SERVICES TARIFF

Third Revised Page 21.8
Cancels Second Revised Page 21.8

ISSUED: January 17, 2007
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: February 16, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.2 Service Descriptions (Cont'd)

E7.2.18 BellSouth Metro Ethernet Service (Cont'd)

Q. (Cont'd)

All customers purchasing *CNM* - Metro Ethernet Reporting must have a web interface that will allow the customer to access and monitor their network via the web. Each web interface provides for one concurrent access. Additional concurrent accesses will require additional web interfaces. An initial web interface (Web Interface Charge - First) is provided with the initial establishment of a customer account. A monthly charge and a nonrecurring charge are applicable for each additional web interface requested for a customer account (Web Interface Charge – Each Additional).

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A security card is required to access a web interface. Each security card can only be used for a single concurrent access and can be associated with only one web interface. A Security Card Charge will apply for the initial and additional cards requested and for the issuance of additional cards to replace lost, damaged or expired cards. A nonrecurring charge is applicable per security card requested.

- R. BellSouth Metro Ethernet service Customer networks comprised of Premium Connections or Virtual Connections with Metro Ethernet Reporting are provided Service Level Agreements (SLAs) for the Company's repair and performance commitments for this service. Credits are provided for missed commitments on such service. The specific SLA commitments and credits applicable are set forth in E7.4.32.C. following for Premium Connections and in E7.4.32.D. for Virtual Connections.

- S. Subsequent to its initial installation, a customer may request to reconfigure or change a BellSouth Metro Ethernet service Connection. The Service Reconfiguration Charge or System Reconfiguration Charge will be the nonrecurring charge applicable for such a request; the appropriate nonrecurring charge will be based upon the reconfiguration or change requested, as specifically described and set forth in E7.4.32 following.

- T. For each Virtual BellSouth Metro Ethernet Connection the customer must decide the mix of applications that will be supported on that Connection, the CoS mix that Virtual Connection must support, and the percentage of bandwidth to be assigned for each CoS (i.e., build a CoS profile for each Virtual Connection). The customer's bandwidth will be limited to the fixed speed associated with each CoS level. Therefore, total bandwidth available to support transmission of a specific CoS will depend upon the size of the customer's Connection and the specific CoS percentage the customer selected for that Connection.

A customer may request a single CoS or up to four CoS to build the CoS Profile for a Virtual Connection. The customer determines the percentage bandwidth each CoS selected should be of the total Virtual Connection's bandwidth. The sum of the percentages for each CoS selected for a Virtual Connection must equal 100%. Additionally, the combined CoS bandwidth percentages selected in a customer's CoS Profile for Real-Time CoS plus Interactive CoS may not exceed 50%, except where the customer selects the 70% Real-Time CoS bandwidth percentage and has no Interactive traffic.

A customer may select different CoS profiles for different Virtual Connections that share the same network VLAN, or Virtual Connection network arrangement. However, technical limitations exist as discussed in TR-73632 that limit the total number of different CoS profiles that can be utilized in a single Virtual Connection network arrangement.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: May 17, 2006
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Original Page 21.8.1

EFFECTIVE: June 16, 2006

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.18 BellSouth Metro Ethernet Service (Cont'd)**

T. (Cont'd)

The CoS and percentage bandwidth selected for a Virtual Connection will define the applications that can be supported and its Quality of Service (QoS) attributes such as traffic priority, latency, packet loss rate, etc. QoS attributes are defined for each CoS. Each Virtual Connection will support Ethernet traffic representing one or more applications and CoS. Virtual Connections support the four following CoS:

- Real-Time¹: This CoS supports VoIP applications. The Real-Time CoS is supported by a low latency queue. The Low Latency Queuing (LLQ) feature in the Ethernet network is used for support of the Real-Time CoS.
- Interactive¹: This CoS supports interactive Video applications. The Interactive CoS is policed to a maximum bandwidth.
- Business Critical: This CoS supports mission-critical business data applications. These applications tend to be data specific and may include medical imaging, electronic funds transfer, medical records transfer, etc.
- Best Effort: This CoS is the default CoS for all other traffic that is not defined as Business Critical, Real-Time or Interactive. Traffic that does not match the other CoS will be mapped as Best Effort. Traffic with the Best Effort CoS will have the lowest priority on the network and will support lower priority data applications, such as email and file transfer protocol (FTP).

Each customer packet from a Virtual Connection will be classified and assigned to a specific CoS by methods identified in TR-73632.

Note 1: The combined CoS bandwidth percentages selected in a customer's Virtual Connection CoS profile for Real-Time CoS plus Interactive CoS may not exceed 50%, except where the customer selects the 70% Real-Time CoS bandwidth percentage and has no Interactive traffic.

BELLSOUTH
TELECOMMUNICATIONS, INC.
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ISSUED: March 16, 2007
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Second Revised Page 21.8.2
Cancels First Revised Page 21.8.2

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.18 BellSouth Metro Ethernet Service (Cont'd)**

- U.** Automatic Protection Switching (APS) is an optional feature available, except as specified otherwise herein, to customers with a Basic, Premium or Virtual BellSouth Metro Ethernet Service Connection of 10 Mbps or higher¹. The APS feature provides customers with the option of having data channel (i.e., facilities from the customer premises to the BellSouth Metro Ethernet Service wire center) survivability through the use of a secondary transport path that is diverse from the path provided with their primary Metro Ethernet Connection. This secondary transport path (i.e., data channel) is provided for a specific Metro Ethernet Connection (i.e., the primary) with the selection of the APS feature which then provides the customer with complete path protection. However, APS is not available for a 2 Mbps, 4 Mbps or 8 Mbps Connection.

With APS, the primary Metro Ethernet Connection's data channel is monitored for threshold violations or path failures with a fail-over to the secondary data channel path provided via the APS feature. The APS data channel is checked periodically to ensure its availability if a failure of the primary Metro Ethernet Connection's data channel occurs.

APS may be ordered as a structurally diverse transport path (Structural Protection) or a route diverse transport path (Route Protection).

Structural Protection APS is defined as the APS facility and the primary Metro Ethernet Connection facility being in separate sheaths in separate structures located along the same route (e.g., underground/underground, buried/underground, aerial/underground, aerial/buried, buried/buried, and aerial/aerial), or along different routes at the Telephone Company's discretion

Route Protection APS is defined as the APS facility being in a separate sheath within alternate underground, aerial or direct buried structures that are run along separate physical paths from the facilities associated with the primary Metro Ethernet Connection. No precise distance separation is specified between the paths; although the separation is sufficient to preclude one disruptive event from affecting both routes.

The APS feature is billed based upon the actual total route miles in a customer's specific Structural Protection APS or Route Protection APS design as determined by the Telephone Company. The term "route miles" is defined for this application to be the actual physical distance or length (not airline mileage), rounded up to the next whole mile, of the unique APS facility designed for each individual customer premises. Total route miles are measured between the customer premises and its serving wire center, plus route miles between the serving wire center and any intermittent wire centers in the path designed to reach the BellSouth Metro Ethernet wire center associated with the primary Metro Ethernet Connection (i.e., the wire center where the BellSouth Metro Ethernet switching equipment is located).

The APS rate element provides the alternate data channel transport and APS equipment in the BellSouth Metro Ethernet Service wire center associated with the primary Metro Ethernet Connection. Actual total route mileage for the customer's APS design is determined from a Service Inquiry. The route mileage determined from this Telephone Company Service Inquiry is used for billing purposes and is the sole determinant of such mileage (i.e., not subject to dispute).

- V.** BellSouth Metro Ethernet Service Independent Company (ICO) Trunk Connection (N)
- Provides interconnection between BellSouth's Ethernet network and the Ethernet network of an Independent Telephone Company. A BellSouth Metro Ethernet Service ICO Trunk Connection provides data channel transport for connections that are 10 airline miles or less in distance from the BellSouth Metro Ethernet Service ICO Trunk Connection wire center to the meet-point with the Independent Company. Meet-point locations greater than 10 airline miles from the BellSouth Metro Ethernet Service ICO Trunk Connection wire center also require BellSouth Metro Ethernet Service ICO Trunk Additional Mileage charges. (N)
- W.** BellSouth Metro Ethernet Service Independent Company (ICO) Trunk Additional Mileage Charges (N)
- Additional mileage charges associated with a BellSouth Metro Ethernet Service ICO Trunk Connection apply when the total distance from the BellSouth Metro Ethernet Service ICO Trunk Connection wire center to the meet-point with the Independent Company is greater than 10 miles in length. The additional mileage is measured in airline miles from the BellSouth Metro Ethernet Service wire center associated with the BellSouth Metro Ethernet Service ICO Trunk Connection to the Independent Company meet-point. Fractions of miles will be considered as a whole mile. (N)

Note 1: Automatic Protection Switching (APS) is not available for a 2 Mbps, 4 Mbps or 8 Mbps Basic, Premium or Virtual Connection.

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: February 1, 2019
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Second Revised Page 21.8.3
Cancels First Revised Page 21.8.3

EFFECTIVE: March 5, 2019

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.2 Service Descriptions (Cont'd)****E7.2.18 BellSouth Metro Ethernet Service (Cont'd)****X. Migration to AT&T Switched Ethernet ServiceSM**

Customers subscribing to BellSouth Metro Ethernet Service may migrate to AT&T Switched Ethernet Service provided by the Company without incurring termination charges, subject to the following conditions:

- The new AT&T Switched Ethernet Service and the existing BellSouth Metro Ethernet Service must be billed to the same customer of record at the same customer locations.
- The customer's existing service must have been in place for at least 12 months.
- 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 Transport Payment Plan (TPP) term.
- The speed (capacity/bandwidth) of the new service must be equal to or greater than that of the existing service.
- The customer must issue a disconnect order for the replaced BellSouth Metro Ethernet Service to be effective within 90 days after the AT&T Switched Ethernet Service installation date. The disconnect and new orders must be coordinated through the Company.
- 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.

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BELLSOUTH
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GEORGIA
ISSUED: September 29, 1998
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Eighth Revised Page 22
Cancels Seventh Revised Page 22

EFFECTIVE: October 29, 1998

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.3 Channel Interface And Network Channel Codes**

(M)

E7.3.1 General

(M)

- A. This subsection explains the Channel Interface codes and Network Channel codes that the customer must specify when ordering Special Access (a.k.a. BellSouth SPA) service. Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces. (M)

Example: If the customer specifies a LB Network Channel Code and a 2LC8 Channel Interface at the customer's premises, the following is being requested:

1. LB = Voice Grade (a.k.a. BellSouth SPA DS0 VG) Channel with a Predefined Technical Specification Package (1) (M)
2. 2 = Number of physical wires at customer premises (M)
3. LC = Facility interface for Type C Signaling (M)
4. 8 = Variable impedance level (M)

E7.3.2 Glossary Of Channel Interface Codes And Options

| Code - Option | Definition |
|---------------|--|
| AB - | Accepts 20 Hz ringing signal at customer's point of termination |
| AC - | Accepts 20 Hz ringing signal at the customer's end user's point of termination |
| CS - | Digital hierarchy interface at Digital Crossconnect System (DCS) |
| - EA | E & M Signaling |
| - GO | Ground Start Loop Signaling-Open End |
| - GS | Ground Start Loop Signaling-Closed End |
| - LO | Loop Start Loop Signaling-Open End |
| - LS | Loop Start Loop Signaling-Closed End |
| - NO | Transmission Only - No Signaling |
| - R | (DSO)Customer Reconfigurable Voice Grade Service |
| - 10R | DS1 to DS0 Customer Reconfigurable |
| - 10 | DS1 to DS0 |
| - 11R | DS1 to DS1 Customer Reconfigurable |
| - 11 | DS1 to DS1 |
| - SP | Resistive Type: Split Path Operation for Data Polling Conference Type |
| - CF | Resistive Type: Split Path Operation for Symmetrical Voice Conference Type |
| - BC | CO Bridging: Broadcast for Broadcast Conference Type |

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Second Revised Page 22.1
Cancels First Revised Page 22.1

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

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E7.3 Channel Interface And Network Channel Codes (Cont'd)

E7.3.2 Glossary Of Channel Interface Codes And Options (Cont'd)

| Code - Option | Definition |
|---------------|--|
| DA - | Data stream in VF frequency band at customer's end user's point of termination |
| DB - | Data stream in VF frequency band at customer's point of termination |
| - 10 | VF for TG1 and TG2 |
| - 43 | VF for 43 Telegraph Carrier type signals, TG1 and TG2 |
| DS - | Digital hierarchy interface |
| - 1K | 1.544 Mbps (DS1) ANSI Extended Superframe (ESF) format |
| - 1S | 1.544 Mbps (DS1) ANSI Extended Superframe (ESF) format and B8ZS Clear Channel Capability |
| - 15 | 1.544 Mbps (DS1) Superframe (SF) format |
| - 15B | 1.544 Mbps (DS1) Superframe (SF) format and B8ZS Clear Channel Capability |
| - 15E | 8-bit PCM encoded in one 64 kbps of the DS1 signal |
| - 15F | 8-bit PCM encoded in two 64 kbps of the DS1 signal |
| - 15G | 8-bit PCM encoded in three 64 kbps of the DS1 signal |
| - 15H | 14/11-bit PCM encoded in six 64 kbps of the DS1 signal |
| - 15J | 1.544 Mbps format per PUB 41451 (only available to U.S. Govt. agencies) |

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Sixth Revised Page 23
Cancels Fifth Revised Page 23

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

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E7.3 Channel Interface And Network Channel Codes (Cont'd)**E7.3.2 Glossary Of Channel Interface Codes And Options (Cont'd)**

| Code - Option | Definition |
|---------------|---|
| - 31 | 3.152 Mbps (DS1C) |
| - 31L | 3.152 Mbps (DS1C) with SF signaling |
| - 44 | 44.736 Mbps (DS3) |
| - 44L | 44.736 Mbps (DS3) with SF signaling |
| - 63 | 6.312 Mbps (DS2) |
| - 63L | 6.312 Mbps (DS2) with SF signaling |
| DU - | Digital access interface |
| - 19(S) | 19.2 Kbps ¹ |
| - 24(S) | 2.4 Kbps ¹ |
| - 48(S) | 4.8 Kbps ¹ |
| - 56(S) | 56.0 Kbps ¹ |
| - 64 | 64.0 Kbps |
| - 96(S) | 9.6 Kbps ¹ |
| - 1KN | DS1 (1.544 Mbps) ANSI Extended Superframe (ESF) Format per TR-NPL-000054 without line power |
| - 1SN | DS1 (1.544 Mbps) ANSI Extended Superframe (ESF) Format per TR-NPL-000054, with B8ZS Clear Channel Capability and without line power |
| - A | DS1 (1.544 Mbps) free-framing format per PUB 41451 with line power (only available to U. S. Govt. agencies) |
| - AN | DS1 (1.544 Mbps) free-framing format per PUB 41451 without line power (only available to U. S. Govt. agencies) |
| - BN | DS1 (1.544 Mbps) Superframe (SF) Format per TR-NPL-000054 without line power |
| - DN | DS1 (1.544 Mbps) Superframe (SF) Format per TR-NPL-000054, with B8ZS Clear Channel Capability and without line power. |
| - SN | 1.544 Mbps (DS1) "ANSI" Extended Superframe (ESF) format and B8ZS Clear Channel Capability |
| DV - | Data Over Voice Multiplexing |
| - BC | Digital Data Over Voice, 9.6 Kbps |
| DX - | Duplex signaling interface at customer's point of termination |
| DY - | Duplex signaling interface at customer's end user's point of termination. |

Note 1: (S) is an additional BellSouth designation for use when the optional Secondary Channel feature is required.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

First Revised Page 23.1
Cancels Original Page 23.1

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

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E7.3 Channel Interface And Network Channel Codes (Cont'd)**E7.3.2 Glossary Of Channel Interface Codes And Options (Cont'd)**

| Code - Option | Definition |
|----------------------|---|
| EA - E | Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead. |
| EA - M | Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead. |
| EB - E | Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead. |
| EB - M | Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead. |
| EC - | Type III E&M signaling at customer POT. |

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ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

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Third Revised Page 24
Cancels Second Revised Page 24

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(T)

E7.3 Channel Interface And Network Channel Codes (Cont'd)

E7.3.2 Glossary Of Channel Interface Codes And Options (Cont'd)

| Code - Option | Definition |
|---------------|---|
| EX - A | Tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions. |
| - B | Tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions. |
| GO - | Ground start loop signaling - open end function by customer or customer's end user |
| GS - | Ground start loop signaling - closed end function by customer or customer's end user |
| - M | For terminating in central office located answering service concentrator |
| IA - | E.I.A. (25 PIN RS-232) |
| LA - | End user loop start loop signaling - Type A OPS registered port open end |
| LB - | End user loop start loop signaling - Type B OPS registered port open end |
| LC - | End user loop start loop signaling - Type C OPS registered port open end |
| LO - | Loop start loop signaling - open end function by customer or customer's end user |
| LR - | 20 Hz automatic ringdown interface at customer with Company provided PLAR |
| LS - | Loop start loop signaling - closed end function by customer or customer's end user |
| - M | For terminating in central office located answering service concentrator |
| NO - | No signaling interface, transmission only |
| PG - | Program transmission - no dc signaling |
| - 3 | Nominal frequency from 200 to 3,500 Hz |
| - 5 | Nominal frequency from 100 to 5,000 Hz |
| - 8 | Nominal frequency from 50 to 8,000 Hz |
| PR - | Protective relaying ¹ |
| RV - 0 | Reverse battery signaling, one way operation, originate by customer |

Note 1: Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

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ACCESS SERVICES TARIFF

Sixth Revised Page 25
Cancels Fifth Revised Page 25

ISSUED: November 29, 2001
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 29, 2001

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.3 Channel Interface And Network Channel Codes (Cont'd)****E7.3.2 Glossary Of Channel Interface Codes And Options (Cont'd)**

| Code - Option | Definition |
|---------------|--|
| - T | Reverse battery signaling, one way operation, terminate function by customer or customer's end user |
| SF - | Single frequency signaling with VF band at either customer POT or customer's end user POT |
| TF - | Telephotograph interface |
| TT - | Telegraph/teletypewriter interface at either customer POT or customer's end user POT |
| - 2 | 20.0 milliamperes |
| TT - 3 | 3.0 milliamperes |
| - 6 | 62.5 milliamperes |
| | (DELETED) |
| | (DELETED) |

(D)

(D)

E7.3.3 Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

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

E7.3.4 Digital Hierarchy Channel Interface Codes (4DS)

Customers selecting the channelized four-wire DS-1 or higher facility interface option at the customer designated premises will be requested to provide subsequent system and channel assignment data. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS9, 4DS0 or 4DS6 plus the speed options indicated following:

| Interface Code and Speed Option | Nominal Bit Rate (Mbps) | Digital Hierarchy Level |
|------------------------------------|----------------------------|----------------------------|
| 4DS9-15 | 1.544 | DS1 |
| 4DS9-31 | 3.152 | DS1C |
| 4DS0-63 | 6.312 | DS2 |
| 4DS6-44 | 44.736 | DS3 |

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Sixth Revised Page 26
Cancels Fifth Revised Page 26

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(T)

E7.3 Channel Interface And Network Channel Codes (Cont'd)**E7.3.5 Service Designator/Network Channel Code Conversion Table**

(T)

The purpose of this table is to show the relationship between the service designator codes (e.g. VG1, DA1, etc.,) and the network channel codes that are used for various administrative purposes.

| Service Designator | Network Channel |
|---------------------------|------------------------|
| Code | Code |
| TG1 | NW |
| TG2 | NY |
| VG1 | LB |
| VG2 | LC |
| VG3 | LD |
| VG4 | LE |
| VG5 | LF |
| VG6 | LG |
| VG7 | LH |
| VG8 | LJ |
| VG9 | LK |
| VG10 | LN |
| VG11 | LP |
| VG12 | LR |
| AP1 | PE |
| AP2 | PF |
| AP3 | PJ |
| AP4 | PK |
| TV3 | TZ |
| DA1 | XA |
| DA2 | XB |
| DA3 | XG |
| DA4 | XH |
| DA5 | XE |
| DA6 | YN |
| HC0 | HS |
| HC1 | HC |
| HC1C | HD |
| HC2 | HE |
| HC3 | HF |

BELLSOUTH
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ISSUED: April 8, 2019
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Thirteenth Revised Page 27
Cancels Twelfth Revised Page 27

EFFECTIVE: May 8, 2019

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations

This subsection contains the specific regulations governing the rates and charges that apply for Special Access (a.k.a. BellSouth SPA) service.

E7.4.1 Types Of Rates And Charges

- A. There are two types of rates and charges. These are monthly rates and nonrecurring charges. The rates and charges are described as follows:

1. Monthly Rates

Monthly rates are flat recurring rates that apply each month or fraction thereof that a Special Access (a.k.a. BellSouth SPA) service is provided. For billing purposes, each month is considered to have 30 days.

Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service and Derived Data Channel (a.k.a. BellSouth SPA Derived Data Channel) service are offered under two contract plans¹. Contract plan rates are available in payment periods from twenty-four to forty-two months¹ and in payment periods from forty-three to sixty months¹ under conditions specified in the Channel Services Payment Plan¹ in E2.4 of this Tariff. (These payment periods are an exception to those listed in E2.4 of this Tariff.) Termination Liability charges will not apply for IC or end user requests for moves of service under CSPP subject to the provisions set forth in E2.4.9.A.11. preceding. However, a Termination Liability Charge is applicable at the date of termination if the customer terminates or disconnects the service prior to fulfilling the period of the contract plan except as specified in b. following. The Termination Liability Charge is the contracted monthly rate times the number of months in the contract plan, less the contracted monthly rate times the number of months the service has been installed, **multiplied by a factor. The factor is fifty percent (50%) for contracts that have been in effect twelve (12) months or less, or twenty percent (20%) for contracts that have been in effect longer than twelve (12) months.** An example is provided in a. following.

- a. A customer subscribes to Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service using the twenty-four to forty-two month payment plan¹. The contract plan period is for thirty months. The subscriber terminates the service after twelve months. The total liability charge is thirty months times the monthly rate. The amount is then reduced to reflect the number of months the subscriber has had the service, which in this example is twelve months. Therefore, the Termination Liability Charge is **fifty percent (50%) of this amount** calculated as follows:

$$\text{Termination Liability Charge} = .50 \times [(30 \text{ months} \times \text{monthly rate}) - (12 \text{ months} \times \text{monthly rate})]$$

- b. A Termination Liability Charge will not be applicable at the date of termination if the customer terminates or disconnects the service prior to fulfilling the period of the contract plan for customer requested changes to a higher order of service covered by the Channel Services Payment Plan as specified in E2.4.9.A.4.b, or customer requested changes to services not covered by the Channel Services Payment Plan that are offered by the Company under a contract payment plan provided that the applicable conditions set forth in E2.4.9.A.4.b are satisfied.

Contract rates are available for 1.544 Mbps High Capacity (a.k.a. BellSouth SPA High Capacity) service under variable rate periods, with rates based on lengths of 36 months, 60 months¹, or 84 months¹ under conditions specified in the Channel Service Payment Plan¹ in E2.4 of this Tariff. A Termination Liability Charge is applicable at the date of termination. The applicable charge is dependent on the contract period subscribed to and will be equal to the number of months remaining in the contract times the monthly contract rate, provided under the contract. However, Termination Liability charges will not apply for IC or end user requests for moves of service under CSPP subject to the provisions set forth in E2.4.9.A.11. preceding.

Rates applicable to a month-to-month payment option are subject to Company initiated changes.

Note 1: Effective May 8, 2019, Customers may not: (1) Establish CSPPs for Digital Data Access Service, Derived Data Channel Service, (2) Establish CSPPs greater than 36 months for High Capacity Service, and (3) Convert or renew CSPPs for Digital Data Access Service, Derived Data Channel Service, and High Capacity Service.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: November 29, 2001
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Third Revised Page 27.0.0.1
Cancels Second Revised Page 27.0.0.1

EFFECTIVE: December 29, 2001

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.1 Types Of Rates And Charges (Cont'd)

A. (Cont'd)

2. Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access (a.k.a. BellSouth SPA) service are:

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ACCESS SERVICES TARIFF

Eleventh Revised Page 27.0.1
Cancels Tenth Revised Page 27.0.1

ISSUED: October 30, 2020
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2020

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.1 Types Of Rates And Charges (Cont'd)

A. (Cont'd)

2. Nonrecurring Charges (Cont'd)

- Installation of service,
- Installation of optional features and functions, and
- Service rearrangements

The following list identifies the individual Special Access (a.k.a. BellSouth SPA) services provided under Section E7. of this Tariff which are eligible for credit of nonrecurring charges under "Service Installation Guarantee" found in E2.4.10 of this Tariff. Customers with these services are not eligible for the Service Installation Guarantee when the requested installation, move or rearrangement service order interval is four days or less as measured from the Application Date of the order.

- Voice Grade (a.k.a. BellSouth SPA DS0 VG),
- Wired Music²,
- Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service¹,
- High Capacity (a.k.a. BellSouth SPA High Capacity) service
- SMARTPath service (a.k.a. BellSouth SPA Shared Ring)
- SMARTRing service (a.k.a. BellSouth Dedicated Ring)

Provided, however, that the following services are not eligible for such credit.

- ***BellSouth Customer Network Management Service***
- Derived Data Channel (a.k.a. BellSouth SPA Derived Data Channel) service
- BellSouth Metro Ethernet Service

a. Installation of Service

Nonrecurring charges apply to each service installed. When one service is ordered and installed, it is billed at the First Service Installed rate. When more than one of the same type of service, between the same locations, for the same customer is ordered and installed at the same time, one at each location is billed at the First Service Installed rate and the others are billed at the Additional Service Installed rate.

(N)

Note 1: The Data Over Voice Channel optional feature is not eligible for such credit.

Note 2: Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

(N)
|
(N)

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Sixth Revised Page 27.1
Cancels Fifth Revised Page 27.1

ISSUED: November 29, 2001
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 29, 2001

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.1 Types Of Rates And Charges (Cont'd)**

A. (Cont'd)

2. Nonrecurring Charges (Cont'd)

(T)

b. Installation of Optional Features and Functions

Nonrecurring charges apply for the installation of some of the optional features and functions available with Special Access (a.k.a. BellSouth SPA) service. The Initial nonrecurring charge applies if the feature or function is installed coincident with the primary service. The Subsequent nonrecurring charge applies if the feature or function is installed after the installation of the primary service.

First and Additional nonrecurring charges are applicable to activate each individual Central Office Channel Interface of a DS1 or DS0 Basic Channelization System, and are in addition to the nonrecurring charges for the DS1 or DS0 Basic Channelization System. A "First" Central Office Channel Interface nonrecurring charge is applicable to the first Central Office Channel Interface installed coincident with the installation of a DS1 or DS0 Basic Channelization System, per service request. The "Additional" nonrecurring charge applies for each additional Central Office Channel Interface, of the same type, ordered and installed at the same location, for the same customer, at the same time, on the same order request. Future requests for a Central Office Channel Interface on an existing DS1 or DS0 Basic Channelization System will be treated as new requests and will require "First" and "Additional" Central Office Channel Interface nonrecurring charge application in addition to any other applicable charges.

One nonrecurring charge is applicable for each individual DS1 level Central Office or Customer channel interface and is in addition to any other applicable charge(s).

The nonrecurring charges for the installation of optional features and functions are set forth in E7.5 following as nonrecurring charges for optional features and functions associated with the specific services.

3. Service Rearrangements

(T)

Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements as set forth in E5.2.6 preceding or a change in the physical location of the point of the termination at a customer designated premises. Changes which result in the establishment of new minimum period obligations are treated as disconnects and starts. Changes in the physical location of the point of the termination are treated as moves and are described and charged for as set forth in E7.4.5 following. A change which results from a transfer of service is described and charged as set forth in 4. and E7.5.13 following.

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: April 8, 2019
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Twelfth Revised Page 28
Cancels Eleventh Revised Page 28

EFFECTIVE: May 8, 2019

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.1 Types Of Rates And Charges (Cont'd)****A. (Cont'd)****3. Service Rearrangements (Cont'd)**

The charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves actual physical change to the service.

Administrative changes, identified as follows, will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Access Service to the same entity (i.e., customer remains responsible for all outstanding indebtedness for the Access Service). Administrative changes are as follows:

- Change of customer name (i.e., the customer of record does not change but rather the customer of record changes its name -- e.g., AT&T-Long Lines to AT&T-Communications),
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number. The customer of record does not change.)
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction.

All other service rearrangements, including physical changes to existing services, will be charged for as follows:

- If the change involves the addition of other customer designated premises to an existing multipoint service, the nonrecurring charge for the Local Channel rate element will apply. The charge(s) will apply only for the location(s) that is being added.
- If the change involves the addition of optional features or functions which have separate nonrecurring charges, the nonrecurring charges for the optional features or functions added will apply.
- If the change involves changing the type of signaling on a Voice Grade (a.k.a. BellSouth SPA DS0 VG) service, a charge equal to the Voice Grade (a.k.a. BellSouth SPA DS0 VG) Local Channel rate element nonrecurring charge will apply. The charge will apply per service termination affected.
- If the change involves changing a customer's 1.544 Mbps high capacity service, as described in E7.2.9 preceding, to SMARTPath service¹ (a.k.a. BellSouth SPA Shared Ring), the change will be considered a disconnect of the existing service and full nonrecurring charges apply for the SMARTPath service¹ (a.k.a. BellSouth SPA Shared Ring). If the existing 1.544 Mbps high capacity service is provided under a Channel Services Payment Plan (CSPP) agreement, a change to SMARTPath service¹ (a.k.a. BellSouth SPA Shared Ring) under CSPP will be considered an upgrade and termination liability charges will not apply.
- If the change involves a customer requested change of data transmission rate for an existing Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) Service circuit, the appropriate nonrecurring charge shall be the Speed Change Charge provided in E7.5.5.C.4. following. This charge shall apply per local channel on each circuit where the speed is requested to be changed. The existing circuit will experience out of service time when the speed change work is conducted. (Full nonrecurring charges shall apply for customer requests for changes of data transmission rate where out of service time cannot be tolerated. The customer shall specify the disconnect date for the circuit being replaced.)
- If the change involves changing (reconfiguring) an existing BellSouth Metro Ethernet service Connection, appropriate charges provided in E7.4.32 following apply.
- If the change involves the addition of a DS3 Network Interface Unit (NIU) to a SMARTRing service (a.k.a. BellSouth SPA Dedicated Ring) the rates and charges shown in E13.3.25 of this Tariff shall apply.
- For all other changes, including a change of the customer of record involving no physical changes to the service provided or the addition of optional features without separate nonrecurring charges, a charge equal to a Local Channel rate element nonrecurring charge will apply. Only one such charge will apply per service, per change.

(N)

(N)

(N)

(C)

Note 1: Effective May 8, 2019, Customers may not: (1) Establish CSPPs greater than 36 months for SMARTPath Service, and (2) Convert or renew CSPPs for SMARTPath Service.

(N)

(N)

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ACCESS SERVICES TARIFF

Second Revised Page 28.1
Cancels First Revised Page 28.1

ISSUED: November 29, 2001
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 29, 2001

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.1 Types Of Rates And Charges (Cont'd)**

A. (Cont'd)

4. Transfer of Service

When a change in billing data (e.g., name, address, contact name, or telephone number) is requested in association with a change in the customer of record, transfer of service charges, as set forth in E7.5.13 following will apply. Charges are applied on a Billing Account Number (BAN) and per circuit basis.

(T)

E7.4.2 Surcharge For Special Access (a.k.a. *BellSouth SPA*) Service

A. General

In addition to the rates and charges described in E7.4.1 preceding, there is a monthly surcharge that applies to Special Access (a.k.a. BellSouth SPA) service. The Special Access (a.k.a. BellSouth SPA) Surcharge compensates the Company for use of the local exchange network when Special Access (a.k.a. BellSouth SPA) service is connected to a PBX or equivalent device, which is capable of interconnecting the Special Access (a.k.a. BellSouth SPA) service with local exchange service.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Third Revised Page 29
Cancels Second Revised Page 29

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(T)

E7.4 Rate Regulations (Cont'd)**E7.4.2 Surcharge For Special Access (a.k.a. BellSouth SPA) Service (Cont'd)**

(T)

A. General (Cont'd)

The Company will automatically bill the surcharge on each Special Access (*a.k.a. BellSouth SPA*) service installed irrespective of whether the interconnection capability exists in the customer's premises equipment unless written certification is received from the customer certifying exemption status as set forth in E7.4.2.B. following.

(T)

B. Special Access (a.k.a. BellSouth SPA) Surcharge Exemptions

(T)

The Special Access (*a.k.a. BellSouth SPA*) service will be exempted from the surcharge if the customer provides the Company written certification that the Special Access (*a.k.a. BellSouth SPA*) service termination is one of the following:

(T)

1. An open-end termination in a Company switch on an FX line, including CCSA and CCSA-equivalent ONALs; or
2. an analog Local Channel that is used for radio or television program transmission; or
3. a termination used for TELEX service; or
4. a termination that by the nature of its operating characteristics could not make use of Company common lines, or
5. a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line charges¹ such as, where the Special Access (*a.k.a. BellSouth SPA*) service accesses only FGA and no local exchange lines, or Special Access (*a.k.a. BellSouth SPA*) service between customer points of termination or Special Access (*a.k.a. BellSouth SPA*) service connecting CCSA or CCSA-type equipment (inter-machine trunks); or
6. a termination that the customer certifies to the Company is not connected to a PBX or other device capable of interconnecting the special access facility to a local exchange subscriber line.

(T)

C. Exemption Certification

1. Special Access (*a.k.a. BellSouth SPA*) services which are terminated as set forth in B. preceding will be exempted from the Special Access (*a.k.a. BellSouth SPA*) Surcharge if the customer provides the Company with a written notification certifying exemption. Such notification shall be provided by the customer (1) at the time the Special Access (*a.k.a. BellSouth SPA*) service is ordered or installed; (2) at such time as the Special Access (*a.k.a. BellSouth SPA*) service is reterminated to a device not capable of interconnecting to the local exchange network, or (3) at such time as the Special Access (*a.k.a. BellSouth SPA*) service becomes associated with a *BellSouth SWA* that is subject to Carrier Common Line charges.
2. If written certification is not received at the time the Special Access (*a.k.a. BellSouth SPA*) service is obtained, the surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations in D. following.
3. The exemption certification is to be provided by the customer ordering the service. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in B. preceding, for each termination, and the date which the exemption is effective.
4. The customer shall also notify the Company when the exempted Special Access (*a.k.a. BellSouth SPA*) service is changed or reterminated such that the exemption is no longer applicable.

(T)

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Note 1: Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: February 10, 2005
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Eighth Revised Page 30
Cancels Seventh Revised Page 30

EFFECTIVE: March 12, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.2 Surcharge For Special Access (a.k.a. BellSouth SPA) Service (Cont'd)****D. Crediting the Surcharge**

The Company will cease billing the Special Access (a.k.a. BellSouth SPA) Surcharge when certification that the Special Access (a.k.a. BellSouth SPA) service has become exempt from the surcharge, as set forth in B. preceding is received. If the status of the Special Access (a.k.a. BellSouth SPA) service was changed prior to receipt for the exemption certification, the Company will credit the customer's account, not to exceed ninety (90) days, based on the effective date of the change specified by the customer in the letter of certification.

E. Application of Rates

1. The monthly Special Access Surcharge applies to Special Access (a.k.a. BellSouth SPA) services arranged, as set forth in A. preceding, on a per voice equivalent basis as shown in the following example.

| Special Access (a.k.a. BellSouth SPA) Service | Voice Grade Equivalent | Surcharge | Monthly Charge |
|--|---------------------------|-----------|-------------------|
| Voice Grade (a.k.a. BellSouth SPA DSO VG) | 1 X | \$ 25.00 | \$ 25.00 |
| DS1 (a.k.a. BellSouth SPA DS1) | 24 X | 25.00 | 600.00 |

2. In the case of multipoint Special Access (a.k.a. BellSouth SPA) service, one Special Access (a.k.a. BellSouth SPA) Surcharge will apply for each termination at a customer designated premises except that the surcharge applies at the customer designated premises at which the Access Service is connected to intrastate service.
3. The Company will bill the surcharge to the customer who orders the Special Access (a.k.a. BellSouth SPA) service unless the Service is exempt as set forth in B. preceding.

The rate for the Special Access (a.k.a. BellSouth SPA) Surcharge is set forth in E7.5.10 following.

E7.4.3 Message Station Equipment Recovery Charge

The Message Station Equipment Recovery Charge is a charge to recover that portion of message station equipment that is assigned to Special Access (a.k.a. BellSouth SPA) service.

This charge is assessed only to those customers to which the Special Access (a.k.a. BellSouth SPA) Surcharge applies. The rate for the Message Station Equipment Recovery Charge is set forth in E7.5.9.

E7.4.4 Minimum Periods

Except under conditions specified in E2.4.9 *of this Tariff*, SMARTPath service (a.k.a. BellSouth SPA Shared Ring) and following, the minimum service period for all services is one month. (T)

The minimum service period for SMARTPath service (a.k.a. BellSouth SPA Shared Ring), **BellSouth Metro Ethernet service** and SMARTRing service (a.k.a. BellSouth Dedicated Ring) is 4 months. (C)

The minimum service period for High Capacity (a.k.a. BellSouth SPA High Capacity) ICB services is specified in the Individual Case Basis Filing.

The minimum service period for Custom Network Service (a.k.a. BellSouth SPA Custom Network Service) is specified in each Custom Network Service Arrangement in E7.7 *of this Tariff*. (T)

E7.4.5 Moves**A. A move involves a change in the physical location of one of the following:**

1. The point of termination at the customer's premises
2. The customer's premises

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ACCESS SERVICES TARIFF

Seventh Revised Page 31
Cancels Sixth Revised Page 31

ISSUED: October 30, 2020
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2020

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.5 Moves (Cont'd)

- B. The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.
 1. Moves Within the Same Building
When the move is to a new location within the same building the charge for the move will be an amount equal to one-half of the nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirement.
 2. Moves To a Different Building
Moves to a different building, other than addressed in 3. following, will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.
 3. Moves of Service(s) under CSPP
Customer requests for moves of service under CSPP, other than inside moves, will be subject to the conditions stated in E2.4.9.A.8. preceding.

E7.4.6 Mileage Measurement

- A. The mileage to be used to determine the monthly rate for the Interoffice Channel is calculated on the airline distance between the locations involved i.e., the serving wire centers associated with two customer designated premises, a serving wire center associated with a customer designated premises and a Company hub, a serving wire center associated with a customer designated premises and a WATS serving office, or two Company hubs. The serving wire center associated with a customer designated premises is the serving wire center from which the customer designated premises would normally obtain dial tone.
- B. Mileage is shown in E7.5.2 following in terms of mileage bands. To determine the rate to be billed, first compute the mileage using the V and H coordinates method, as set forth in the National Exchange Carrier Association Tariff F.C.C. No. 4, then find the band into which the computed mileage falls and apply the rates shown for that band. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage band and applying the rates.
- C. When Hubs are involved, mileage rates are computed and rates applied separately for each section of the Interoffice Channel, i.e., customer designated premises serving wire center to Hub, Hub to Hub and/or Hub to customer designated premises serving wire center. However, when any service is routed through a hub for purposes other than customer specified bridging or channelization (e.g., the Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the customer designated premises. For the purpose of applying multipoint charges, the bridging or hubbing locations are determined by that combination of airline distances connecting the serving wire center which will produce the lowest interoffice mileage charges.
- D. SMARTRing service (a.k.a. BellSouth Dedicated Ring) Local Channel, Alternate Central Office Channel and Internodal Channel rates are also distance sensitive. They are measured per quarter airline mile or fraction thereof from the customer's designated premises to the Serving Wire Center, Alternate Central Office, or other Customer Nodes. V&H coordinates are derived for each customer location through the use of longitude and latitude measurements. Using the V&H coordinate method as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF FCC. No. 4, compute the mileage, convert to quarter miles, and multiply the appropriate per quarter mile rate by the distance involved. Any portion of a quarter mile will always round up to the next quarter mile before determining the mileage and applying the rate.
- E. The SMARTRing service (a.k.a. BellSouth Dedicated Ring) Interoffice Channel mileage is calculated per quarter airline mile between two directly connected central offices on the ring. Interoffice Channel mileage is computed by using the V&H coordinates method as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF FCC. No. 4. To determine the rate to be billed, multiply the appropriate per quarter mile rate by the distance involved. Fractions of a quarter mile always round up to the next quarter mile before determining the mileage and applying the rate.

E7.4.7 Facility Hubs

A customer has the option of ordering Voice Grade (a.k.a. BellSouth SPA DS0 VG) facilities or digital high capacity (a.k.a. BellSouth SPA High Capacity) facilities (i.e., DS1, DS1C, DS2 or DS3) to a facility Hub for channelizing to individual services requiring lower capacity facilities (e.g., Telegraph (a.k.a. BellSouth SPA Telegraph), Voice (a.k.a. BellSouth SPA DS0 VG), Wired Music⁽¹⁾, etc. (N)

Different locations may be designated as Hubs for different facility capacities, e.g., channelization from digital to digital may occur at one location while channelization from digital to analog may occur at a different location. When ordering, the customer will specify the desired channelization Hub(s) selected from the National Exchange Carrier Association Tariff F.C.C. No. 4. This tariff identifies the type(s) of channelization functions which are available and the serving wire centers at which they are available.

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021. (N)

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: October 30, 2020
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Fifth Revised Page 32
Cancels Fourth Revised Page 32

EFFECTIVE: December 1, 2020

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.7 Facility Hubs (Cont'd)**

Some of the types of channelization available include the following:

- from higher to lower bit rate
- from digital to voice frequency channels

End to end services may be provided on channels of these facilities to a hub. The transmission performance for the end to end service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps facility is channelized to voice frequency channels, the transmission performance of the channelized services will be Voice Grade (*a.k.a. BellSouth SPA DS0 VG*), not High Capacity (*a.k.a. BellSouth SPA High Capacity*).

The Company will commence billing the monthly rate for the facility to the Hub on the date specified by the customer on the service order. Individual services utilizing these facilities may be installed coincident with the installation of the facility to the Hub or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for a Voice Grade (*a.k.a. BellSouth SPA DS0 VG*) or digital Local Channel, Interoffice Channel, if applicable and the Basic Channelization System at the time the facility is installed. DS1 and DS0 Basic Channelization Systems require a Central Office Channel Interface for activation of each lesser capacity channel. DS3 to DS1 channelization arrangements, for transport of intrastate DS1 service high capacity channels via LightGate service (*a.k.a. BellSouth SPA Point to Point Network*) and SMARTRing service (*a.k.a. BellSouth SPA Shared Ring*), requires a DS1 channel interface for activation of each DS1 channel. Individual service rates (by service type) will apply for a Local Channel, additional Interoffice Channel and Central Office Channel Interface(s) (as required), if applicable, for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading channelization occurs when a high capacity analog or digital channel is channelized to provide channels with a lesser capacity and one of the lesser capacity channels is further channelized.

When cascading channelization is performed, whether in the same or a different Hub, a charge for the additional Basic Channelization System and Central Office Channel Interface(s) also applies. A DS1 Basic Channelization System and DDAS (*a.k.a. BellSouth SPA DS0 Digital Data*) Central Office Channel Interface are required for high speed or low speed DDAS (*a.k.a. BellSouth SPA DS0 Digital Data*) activations when channelized from a DS1 (1.544 Mbps) channel. A DS0 Basic Channelization System and Subrate Central Office Channel Interface are required for subrate activations of 2.4, 4.8 and 9.6 Kbps when channelized from a DS0 (64 Kbps) channel. When cascading channelization is performed at different Hubbing locations, Interoffice Channel charges also apply between the Hubs.

Although not requiring channelization, the Company will designate certain hubs for Wired Music⁽¹⁾ services. A customer can order service(s) between customer designated premises and a hub and will be billed accordingly at the rates set forth in E7.5.4 and E7.5.5 following for the service, as appropriate. The customer will be charged for each such connection made at the rates for Other Labor as set forth in E13.2.6.(c) following. The rates that apply for the service between each customer designated premises and the hub are a Local Channel and Interoffice Channel, if applicable. In addition, for Wired Music⁽¹⁾ services, rates for optional features and functions may be applicable.

(N)

(N)

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

(N)

(N)

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA

ACCESS SERVICES TARIFF

Twelfth Revised Page 33
Cancels Eleventh Revised Page 33

ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.8 Shared Use Analog And Digital High Capacity (a.k.a. BellSouth SPA High Capacity) Services

Shared use occurs when Special Access (a.k.a. BellSouth SPA) service and BellSouth SWA are provided over the same High Capacity facility through a common interface when the IC orders Special Access (a.k.a. BellSouth SPA) service, the facility will be ordered and rated as Special Access (a.k.a. BellSouth SPA) service (i.e., Local Channel or Virtual Collocation Cross-Connect, Interoffice Channel as appropriate, and Basic Channelization System, if applicable) until such time as the customer chooses to use a portion of the available capacity for providing BellSouth SWA. As each individual channel is activated for BellSouth SWA, the Special Access Local Channel rates, and Interoffice Channel rates will be reduced accordingly (e.g., 1/24th for a DS1 service, etc.). For SMARTPath service (a.k.a. BellSouth SPA Shared Ring) the rates will be reduced by 1/48th for each Switched Access Voice Grade Circuit. The customer must place an order for each individual Switched Access Channel utilizing the Shared Use Facilities and specify the channel assignment for each such service. BellSouth SWA rates and charges as set forth in E6.8. preceding will apply for each channel of the shared use facility that is used to provide BellSouth SWA. Where Special Access (a.k.a. BellSouth SPA) service is provided utilizing a channel of the shared use facility to the hub, High Capacity (a.k.a. BellSouth SPA High Capacity) rates and charges will apply for the facility to the hub as set forth preceding and individual service rates and charges will apply from the hub to the customer designated premises. The rates and charges that will apply to the portion from the hub to the customer-designated premises will be dependent on the specific type of Special Access (a.k.a. BellSouth SPA) service that is provided (e.g., Voice Grade (a.k.a. BellSouth SPA DS0 VG), Telegraph (a.k.a. BellSouth SPA Telegraph), etc.). The applicable rates and charges will include a Local Channel and Interoffice Channel, and appropriate channelization elements, if applicable.

Access Collocation Cross-Connects provide a means for customers to interconnect their virtual collocation arrangements to their BellSouth Shared Use Digital High Capacity (a.k.a. BellSouth SPA High Capacity) services to Central Office Collocation arrangements within the same Central Office. Terms, conditions, and rates for Physical Access Collocation Cross-Connects and Virtual Access Collocation Cross-Connects are set forth in Section E13. of this Tariff.

The capability exists for a customer to utilize all or part of a SMARTRing service (a.k.a. BellSouth Dedicated Ring) to transport switched access provided the SMARTRing service (a.k.a. BellSouth Dedicated Ring) channel interface transporting the BellSouth SWA service does not have **BellSouth Customer Network Management Service** capability. The customer must place an order for each individual BellSouth SWA Channel provided over Dedicated Access service Shared Use Facilities and specify the channel assignment for each such service. The switched traffic would enter and exit the SMARTRing service (a.k.a. BellSouth Dedicated Ring) at Customer and Central Office Nodes on that network. When this occurs, ratcheting of Dedicated Access rate elements (i.e. Nodes, Channel Interfaces, Local Channels, Alternate Central Office Channels, Internodal Channels, or Interoffice Channels) will be based on the number of voice grade (a.k.a. BellSouth SPA DS0 VG) equivalent trunks/lines of that rate element used for BellSouth SWA access. (C)

Reduction factors will be developed to reduce the charges on system level billing as well as the billing on individual DS1, DS3, STS-1, OC-3, and/or OC-12 Channel Interfaces. For ratcheting purposes, the system level charges include Customer Nodes, Central Office Nodes, Local Channels, Alternate Central Office Channels, Internodal Channels, and Interoffice Channels as appropriate to make up a customer's SMARTRing service (a.k.a. BellSouth Dedicated Ring). Individual OC-1, OC-3 and OC-12 Channel Interfaces used in Overlay Ring Arrangements will be ratcheted as system level charges. The system reduction factor will apply to the system level charges.

The system reduction factor will be derived by dividing the number of activated BellSouth SWA access circuits by the voice grade (a.k.a. BellSouth SPA DS0 VG) channel equivalent capacity of the self-healing ring. An OC-1 SMARTRing service (a.k.a. BellSouth Dedicated Ring) has 672 voice grade (a.k.a. BellSouth SPA DS0 VG) equivalent channels. An OC-3 SMARTRing service (a.k.a. BellSouth Dedicated Ring) has 2,016 voice grade (a.k.a. BellSouth SPA DS0 VG) equivalent channels. An OC-3+ or OC-12 SMARTRing service (a.k.a. BellSouth Dedicated Ring) has 8,064 voice grade equivalent channels. An OC-48 SMARTRing service (a.k.a. BellSouth Dedicated Ring) or OC-48+ SMARTRing service (a.k.a. BellSouth Dedicated Ring) with 48 or less activated DS3s has 32,256 voice grade (a.k.a. BellSouth SPA DS0 VG) equivalent channels. However, when an OC-48+ SMARTRing service (a.k.a. BellSouth Dedicated Ring) is used to transport BellSouth SWA service, and more than 48 equivalent DS3s are activated on the service, the factor will be based upon the actual number of activated DS3s times 672 DS0s. A factor for individual DS3 channel interfaces and 28 DS1 channel systems, will be derived by dividing the number of activated BellSouth SWA access circuits associated with the DS3 channel by the voice grade (a.k.a. BellSouth SPA DS0 VG) equivalent capacity of the DS3 channel. A DS3 has 672 voice grade (a.k.a. BellSouth SPA DS0 VG) equivalent channels. For DS1 channel interfaces, a factor is derived by dividing the number of BellSouth SWA access circuits associated with the DS1 channel by the voice grade (a.k.a. BellSouth SPA DS0 VG) equivalent capacity of the DS1 channel, which is 24. Each reduction factor is rounded to four decimal places and then multiplied against the respective monthly charges to determine the reduction amount.

BellSouth SWA rates and charges as set forth in E6.8 preceding will apply for each channel of the shared use facility that is used to provide BellSouth SWA.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA

ACCESS SERVICES TARIFF

Sixth Revised Page 33.1
Cancels Fifth Revised Page 33.1

ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.8 Shared Use Analog And Digital High Capacity (a.k.a. BellSouth SPA High Capacity) Services (Cont'd)

Where Dedicated Access service is provided utilizing a channel(s) of the shared use facility to the Hub, Wideband Analog (a.k.a. BellSouth SPA Wideband Analog) or High Capacity (a.k.a. BellSouth SPA High Capacity) rates and charges will apply for the portion of the facility ordered as Dedicated Access to the Hub as set forth preceding and individual service rates and charges will apply from the Hub to the customer designated premises for the Dedicated Access services ordered. The rates and charges that will apply to the portion from the Hub to the customer-designated premises will be dependent on the specific type of Dedicated Access service that is provided (e.g., Voice Grade (a.k.a. BellSouth SPA DS0 VG), Telegraph (a.k.a. BellSouth SPA Telegraph), etc.). The applicable rates and charges will include a local channel, interoffice channel, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply as set forth in E7.5 following.

E7.4.9 Universal WATS Access Lines (a.k.a. BellSouth SPA WATS Line) Arranged for Bijurisdictional Use

The following parameters apply only to WATS Access Lines (a.k.a. BellSouth SPA WATS Line) arranged for bijurisdictional use.

1. "1+" and "0" intraLATA usage carried over outward WATS Access Lines (a.k.a. BellSouth SPA WATS Line), having both intra and interstate capability (bijurisdictional) and provided from the BellSouth Telecommunications, Inc. Tariff FCC No. 1 or other appropriate Local Exchange Carrier (LEC) interstate tariff, will be completed over LEC facilities at LEC intraLATA outward WATS rates and subject to rules and regulations applicable to LEC intraLATA outward WATS. Subscribers using a bijurisdictional access line for BellSouth SWA may choose either the Company or the interexchange carrier to complete and bill intraLATA calls according to the appropriate rates, rules and regulations. The "1+" and "0" intraLATA usage will be billed to the customer (end user or IC) where the closed end of the Universal WATS Access Line (a.k.a. BellSouth SPA WATS Line) is terminated. Customer billing information must be provided to the Company at the time the Universal WATS Access Line (a.k.a. BellSouth SPA WATS Line) is ordered when the Company is used to complete intraLATA calls.
2. Local calling over Universal WATS Access (a.k.a. BellSouth SPA WATS Line) is to be blocked.
3. All 1+700 intraLATA traffic over Universal WATS Access Lines (a.k.a. BellSouth SPA WATS Line) is to be blocked by the Interexchange Carrier (IC). For all 1+700 intraLATA traffic that cannot be blocked, the IC's must report intraLATA usage to the LEC and pay compensation.

E7.4.10 Reserved for Future Use

E7.4.11 Reserved for Future Use

E7.4.12 BellSouth Customer Network Management Service

A. General

BellSouth Customer Network Management Service is an optional feature that enables the customer to monitor and reconfigure his Voice Grade (a.k.a. BellSouth SPA DS0 VG), DDAS (a.k.a. BellSouth SPA DS0 Digital Data), and High Capacity (a.k.a. BellSouth SPA High Capacity) special access (a.k.a. BellSouth SPA) services without the direct intervention of Company personnel. (C)

1. Basic **BellSouth Customer Network Management Service**

Basic **BellSouth Customer Network Management Service** includes monitoring and reconfiguration of the customer's private line services equipped with **BellSouth Customer Network Management Service**. (C)

Monitoring consists of unsolicited signals of major and minor facility alarms. These alarms include carrier group alarms, out of service alarms, bit error rate, bipolar violations, slip errors, errored seconds, out-of-frame alarms and invalid connections. Invalid connections are connections between special access services with incompatible signals or between services without **BellSouth Customer Network Management Service**. Customer requests for such connections will be denied. The Company shall not be responsible for service interruptions, troubles, loss of customer data, or any other losses resulting from attempted invalid connections. (C)

Reconfiguration provides the customer with the ability to direct the Company to connect or disconnect circuits equipped with **BellSouth Customer Network Management Service** options to or from each others of like kind at a central office or central offices where the customer has purchased **BellSouth Customer Network Management Service**. Such connections and disconnections may be performed immediately or at a future time prescribed by the customer and are performed without direct interaction by Company personnel. (C)

The customer is responsible for providing the terminal equipment required for access to **BellSouth Customer Network Management Service**. (C)

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA

ACCESS SERVICES TARIFF

Fifth Revised Page 33.1.1
Cancels Fourth Revised Page 33.1.1

ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.12 BellSouth Customer Network Management Service (Cont'd)

A. General (Cont'd)

1. Basic *BellSouth Customer Network Management Service* (Cont'd)

The customer may transmit reconfiguration directions to or receive monitoring information from the Company over a switched service or a private line service. There are several types of access to the service listed in the General Subscriber Service Tariff from which the customer may choose. The type of access chosen will indicate the type of service the customer must provide to a Company location. Each *BellSouth Customer Network Management Service* customer must purchase at least one type of access.

Outside of the Company exchange or region, the customer must provide service from his terminal location to the designated Company location from which he may receive monitoring information or transmit reconfiguration directions.

With the customer's initial order for basic *BellSouth Customer Network Management Service*, the Company provides the capability for "User Access" for monitoring and reconfiguration signals. One customer identification code with password security is included with such access.

With the customer's initial order, the Company provides one customer training class for up to five (5) persons. The class length of this initial training is two consecutive eight-hour days. These training classes are conducted at a designated Company location. Transportation, lodging and food for the attendees will be the responsibility of the customer. If the customer desires for the initial training to be conducted on his premises, then the customer is responsible for the transportation, lodging and food for the trainer. In addition, the customer is responsible for having the appropriate equipment on his premises.

Reconfiguration and monitoring are not available during the performance of routine maintenance of the Company's facilities and equipment used to provide *BellSouth Customer Network Management Service*.

The Local and Interoffice Channels, which are terminated into *BellSouth Customer Network Management Service*, are subject to all regulations and charges contained in their respective sections of this Tariff in addition to those contained herein.

Different switching options may be available in the same central office. If customers desire more than one switching option in the same central office and facilities are available, a channel connection is required for each *BellSouth Customer Network Management Service* switching option connected.

BellSouth Customer Network Management Service is furnished only in serving wire centers where facilities are available.

2. Customer Circuits

There are three types of channel connections, which can be connected to *BellSouth Customer Network Management Service* - DS0 (single channel), DS1 (1.544 Mbps) and DS3 (44.736 Mbps) digital circuits.

DS0 Channel Connections - There are two types of DS0 channel connections - Voice Grade and Digital. Both types of DS0 connections will be switched at a DS0 level.

DS1 Channel Connections - There are two types of connections available for a customer desiring to terminate a DS1 circuit - DS0 switching and DS1 switching. For example, if a customer needs to be able to monitor or reconfigure the 24 DS0 circuits riding on the DS1 channel, then the customer would purchase a DS1 channel connection with DS0 switching. If the customer does not need access to the individual DS0 circuits, then the customer would purchase a DS1 channel connection with DS1 switching. A monitoring only option (i.e., surveillance) is also provided for DS1 channel connections. This option may also be used for terminating SWA DS1 channels.

DS3 Channel Connections (Monitoring Only) - There are two types of connections available for terminating a DS3 circuit - DS1 and DS3. This option provides for termination of SWA and SPA DS3 channels for monitoring purposes only (i.e., surveillance). If the customer needs monitoring for 28 DS1 circuits, then the customer would purchase a DS3 channel connection at DS1 level. The customer would purchase a DS3 channel connection at DS3 level if the customer wants to monitor the entire DS3 circuit.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA

ACCESS SERVICES TARIFF

Fourth Revised Page 33.2
Cancels Third Revised Page 33.2

ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.12 BellSouth Customer Network Management Service (Cont'd)

A. General (Cont'd)

3. *BellSouth Customer Network Management Service* Options

a. Additional Concurrent User Access: This option provides the customer the ability to establish additional concurrent connections to the Company for the communication of monitoring and reconfiguration signals. One additional customer identification code is provided with each additional User Access. For each Additional Concurrent User Access ordered, the customer must also order an additional Management Terminal Interface from the General Subscriber Service Tariff.

b. Additional User Identification Codes: This option provides customer identification codes in addition to that provided with each User Access. If the customer has a Dial Access to *BellSouth Customer Network Management Service*, then the customer must also order an additional Security Card from the General Subscriber Service Tariff.

c. Additional Customer Training: This option provides one eight hour day of customer training in addition to that included with basic *BellSouth Customer Network Management Service*. These training classes are conducted at a designated Company location. All other terms that apply for the initial training apply for the subsequent training.

d. Multipoint Bridging: Multipoint Bridging is a capability, which permits the cross connection of multiple channels equipped with *BellSouth Customer Network Management Service*.

(1) Multipoint Bridging, sometimes referred to as "DMB", is an option on voice grade (a.k.a. BellSouth SPA DS0 VG) service that allows the customer the capability to perform reconfigurations that cross-connect or bridge three or more channels in the *BellSouth Customer Network Management Service* arrangement into one conferencing arrangement.

(2) Multipoint Junction Unit option gives the customer the ability to bridge one master and four patron legs for use with Digital Data Access Service. If more than one MJU is required, one of the four patron legs must be used to connect to the master leg of another MJU. The customer is responsible for this connection. The MJU feature is only offered in a unit of five channel connections (one master and four legs).

e. Subrate Reconfiguration Capability is an option that provides the customer the ability to control all ports of a subrate multiplexer within a *BellSouth Customer Network Management Service* arrangement. This control includes both the DS0B channel and DS0A legs. The speeds for subrates are 2.4, 4.8, and 9.6 Kbps (does not include 19.2 Kbps). The customer has the responsibility to establish a subrate system using previously acquired DS0 ports.

f. Reconfigurations by Company Personnel: The customer may request that Company personnel intervene to perform reconfigurations that the customer could otherwise perform without the direct intervention of Company personnel.

4. Shared *BellSouth Customer Network Management Service* Arrangement

Multiple customers may include circuits with the *BellSouth Customer Network Management Service* option in the same *BellSouth Customer Network Management Service* arrangement, provided all customers designate in writing the same party to serve as their agent. A *BellSouth Customer Network Management Service* arrangement consists of all special access services with *BellSouth Customer Network Management Service* that can be monitored and reconfigured through the same User Access.)

The agent will be authorized to represent each of those customers in all transactions and communications with the Company regarding the shared *BellSouth Customer Network Management Service* arrangement or circuits included in that arrangement including reconfigurations, monitoring, ordering of additional special access services and *BellSouth Customer Network Management Service* options in the arrangement, and removal of special access services from the arrangement. The Company will not process any customer orders or requests affecting that arrangement of circuits included in that arrangement except those submitted to the Company by the agent.

The Company will not be liable for any loss to any of the customers in a shared *BellSouth Customer Network Management Service* arrangement caused directly or indirectly by actions of the agent or another customer in the shared arrangement. Each customer in the shared arrangement and the agent indemnify the Company for the costs of any and all claims arising directly or indirectly out of the actions of agent or another customer in the shared arrangement, including, but not limited to, the cost of defending against such claims.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA

ACCESS SERVICES TARIFF

Fifth Revised Page 33.2.1
Cancels Fourth Revised Page 33.2.1

ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.12 BellSouth Customer Network Management Service (Cont'd)**

(C)

A. General (Cont'd)4. Shared *BellSouth Customer Network Management Service* Arrangement (Cont'd)

(C)

Any customer in a shared *BellSouth Customer Network Management Service* arrangement must give the Company 30 days prior written notice of his intent to revoke an agent's authority or to remove his special access (a.k.a. BellSouth SPA) services from a shared arrangement. Such notice shall not be effective unless it provides the Company with specific and sufficient directions regarding treatment of the customer's special access services (a.k.a. BellSouth SPA) upon revocation of the agent's authority or removal from the shared arrangement.

(C)

5. Access Collocation Cross-Connects

Access Collocation Cross-Connects provide a means for customers to interconnect their *BellSouth Customer Network Management Service* to Central Office Collocation arrangements within the same Central Office. Terms, conditions, and rates for Physical Access Collocation Cross-Connects and Virtual Access Cross-Connects are set forth in Section E13. of this Tariff.

(C)

B. Application of Rates1. Basic *BellSouth Customer Network Management Service*

(C)

a. Connection of Special Access (a.k.a. BellSouth SPA) service to Reconfiguration and Alarm Monitoring Capability.

A DS0/DS1/DS3 nonrecurring Connection Charge and a recurring monthly rate is required for each entrance and exit of a special access channel to reconfiguration and monitoring capability.

Charges for Access to *BellSouth Customer Network Management Service* are contained in E7.5.16.

(C)

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Seventh Revised Page 33.3
Cancels Sixth Revised Page 33.3

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.12 BellSouth Customer Network Management Service (Cont'd)**

(C)

B. Application of Rates (Cont'd)**2. *BellSouth Customer Network Management Service* Options**

(C)

a. Additional Concurrent User Access

For each Additional Concurrent User Access a nonrecurring charge and a recurring monthly rate applies.

b. Additional User Identification Codes

A nonrecurring charge applies for each additional ID requested.

c. Additional Customer Training

Any additional training will incur a nonrecurring charge for each eight (8) hour day of training.

d. Multipoint Bridging

Multipoint Bridging (DMB)

There will be a nonrecurring charge and a monthly rate for each DS0 or equivalent that is equipped with this capability.

Multipoint Junction Unit

A nonrecurring charge and a monthly rate *apply* for each DS0 or equivalent that is equipped with this capability. This option must be purchased in groups of five because a unit has the capacity of five DS0 or equivalent channel connections.

(T)

e. Subrate Reconfiguration

There will be a nonrecurring charge for each DS0 equipped DS0B and a nonrecurring charge and a monthly rate will apply for each set of DS0As. The DS0A rates apply in sets of five for 9.6 Kbps, in sets of ten for 4.8 Kbps, and in sets of twenty for 2.4 Kbps.

f. Reconfigurations by the Company Personnel

A nonrecurring charge is applicable on each occasion, when the customer requests Company personnel to perform a reconfiguration or a series of reconfigurations in order to set up point-to-point or multipoint connections, to provide a status report or to establish a conference.

E7.4.13 Derived Data Channel (DDCS) (a.k.a. BellSouth SPA Derived Data Channel) Service**A. Application of Rates**

The derived data channel charges provide the central office data/voice multiplexing capability. The customer must also subscribe to a compatible two-wire local exchange line (e.g., business exchange line, ESSX service main station line). This two-wire exchange line charge and its associated rates and charges are in addition to the derived data channel rates and charges.

(T)

The DS0-B interface charge is applicable for each group of a maximum of twenty multiplexed derived data channels. Each of the twenty channels in a DS0-B interface channel group operates at a bit rate of 2.4 Kbps. The interoffice channel is required when the customer's serving wire center and the serving wire center of the customer's terminating premises are not the same.

E7.4.14 SMARTRing Service (a.k.a. BellSouth Dedicated Ring)

(T)

A. Self-healing Multi-nodal Alternate Route Topology Ring

1. Monthly rates and charges as specified in E7.5.18 following apply for each SMARTRing service (a.k.a. BellSouth Dedicated Ring). Customers must specify network capacity at the time of the initial order. In an Overlay Ring Arrangement where a customer's overlaying SMARTRing service (a.k.a. BellSouth Dedicated Ring) rides the customer's host SMARTRing service (a.k.a. BellSouth Dedicated Ring), the overlay ring will share the transport of the host ring between common node locations. Rate categories at OC-3, OC-3+, OC-12, OC-24, OC-48, OC-48+, OC-192 and OC-192+ capacity levels include Customer Nodes, Central Office Nodes, Local Channels, Alternate Central Office Channels, Interoffice Channels and Internodal Channels. OC-24 SMARTRing service (a.k.a. BellSouth Dedicated Ring) is only available to existing CSPP customers or under month-to-month arrangements. Rate categories for OC-1 SMARTRing service (a.k.a. BellSouth Dedicated Ring) include Customer Nodes and Central Office Nodes. Channel Interfaces are required at each node on the network and must be associated with a SMARTRing service (a.k.a. BellSouth Dedicated Ring). An OC-1 Overlay Ring Arrangement requires an OC-1 Channel Interface at each node involved. An OC-3 Overlay Ring Arrangement requires an OC-3 Channel Interface at each node involved. An OC-3+ or OC-12 Overlay Ring Arrangement requires an OC-12 Channel Interface at each node involved. An OC-48 or OC-48+ Overlay Ring Arrangement requires an OC-48 Channel Interface at each node involved. In Overlay Ring Arrangements, the customer

(T)

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ACCESS SERVICES TARIFF

First Revised Page 33.3.1
Cancels Original Page 33.3.1

ISSUED: September 29, 2003
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: October 30, 2003

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.14 SMARTRing[®] Service (a.k.a. BellSouth Dedicated Ring) (Cont'd)

A. Self-healing Multi-nodal Alternate Route Topology Ring (Cont'd)

1. (Cont'd)

must order a Channel Interface for each entry to or exit from the host ring. In all other situations, the number of Channel Interfaces ordered will depend on whether the customer desires a working interface, or a working interface and a protection interface. The quantity of channel interfaces ordered may not exceed the capacity ordered. When a 28 DS1 Channel System is utilized to activate DS1 channels, the appropriate number of DS1 Channel Interfaces are required in lieu of an originating or terminating DS3 or STS-1 Channel Interface.

2. Nonrecurring charges for Local, Alternate Central Office, Interoffice and Internodal Channels apply for each channel for month-to-month customers. Nonrecurring charges are not applicable when the ring level rate elements and channel interfaces are ordered under TPP arrangements. SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) ring level rate elements are defined as following: Local Channel, Interoffice Channel, Internodal Channel, Alternate Central Office Channel, Customer Node and Central Office Node. Nonrecurring charges do apply for the Channel Interface Reallocation rate element and the SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) rearrangement rate elements (Surveillance and Reconfiguration) for CSPP and TPP customers. When the customer requests two separate routes and the routing is provided as described in E7.2.16.A preceding, charges apply for the Local Channels and any Interoffice Channels on the requested route. Recurring charges for Local, Alternate Central Office, Interoffice and Internodal Channels apply for each quarter air mile increment of the channel. Fractions of a quarter mile will always round up to the next quarter air mile before determining the mileage and applying the rate. For channels which are less than one quarter mile, a minimum charge of one quarter mile applies.
3. For Internodal Channels, charges apply as appropriate either for the same wire center area or contiguous serving wire center areas, as specified in E7.5 18.A.4.
4. Nonrecurring charges for Customer Nodes and Central Office Nodes apply per node for month-to-month customers and are based upon the capacity of the ring configuration. Nonrecurring charges are not applicable when the preceding rate elements are ordered under TPP arrangements. Recurring rates for Customer and Central Office Nodes apply per node and are also based upon the capacity of the ring configuration.
5. When the customer orders an OC-1 SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) Overlay Ring Arrangement riding the customer's host OC-12, OC-48, or OC-48+ SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring), recurring charges apply per OC-1 Customer Node and/or OC-1 Central Office Node, in addition to the recurring and nonrecurring charges for associated Channel Interfaces.
6. When the customer orders an OC-3 SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring) service Overlay Ring Arrangement riding the customer's host OC-12, OC-48, OC-48+, **OC-192** or **OC-192+** SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring), recurring charges apply per OC-3 Customer Node and/or OC-3 Central Office Node, in addition to the recurring and nonrecurring charges for associated Channel Interfaces. Nonrecurring charges only apply for month-to-month customers. (C)
7. When the customer orders an OC-3+ or OC-12 Overlay Ring Arrangement riding the customer's host OC-48, **OC-48+**, **OC-192** or **OC-192+** SMARTRing[®] service (a.k.a. BellSouth Dedicated Ring), recurring charges apply per OC-3+ and/or OC-12 Customer Node and/or per OC-3+ and/or OC-12 Central Office Node, in addition to the charges for associated Channel Interfaces. Nonrecurring charges only apply for month-to-month customers. (C)
8. In all Overlay Ring Arrangements, the number of OC-1, OC-3, OC-12 and/or **OC-48** Channel Interfaces required will be based upon the characteristics of the overlaying ring. (C)
9. The rates for Customer Channel Interfaces apply for each origination and for each termination of an activated DS1, DS3, STS-1, OC-3, OC-12, **OC-48** and/or **1000 Mbps** at the Customer Node. For interfaces ordered on a month-to-month basis the nonrecurring charge applies per interface. For interfaces ordered under CSPP, nonrecurring charges are established on a per order basis for the first DS1, DS3, STS-1, OC-3 and/or OC-12 which originates or terminates at a Customer Node and for each additional DS1, DS3, STS-1, OC-3 and/or OC-12 which originates or terminates at the same Customer Node. For interfaces ordered under TPP, there are no nonrecurring charges associated with the installation. The recurring rate applies on a per Customer Node basis for each origination and for each termination of an activated DS3 and/or DS1 at a Customer Node. (C)
10. In addition, OC-12 and or OC-48 customers with DS3 and/or STS-1 interfaces at the Customer Node electing to connect with DS1 services at a Central Office Node, must obtain a 28 DS1 Channel System and the appropriate number of DS1 Channel Interfaces in lieu of a DS3 or STS-1 Channel Interface. A maximum of 28 DS1 Channel Interfaces can be activated for each 28 DS1 Channel System utilized. For service ordered under CSPP, nonrecurring charges are established on a per order basis for the first 28 DS1 Channel System and for each additional 28 DS1 Channel System at that same Central Office Node. Nonrecurring charges are also established for the first DS1 Channel Interface which

BELLSOUTH
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ACCESS SERVICES TARIFF

First Revised Page 33.3.2
Cancels Original Page 33.3.2

ISSUED: August 15, 2006
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: September 14, 2006

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.14 SMARTRing Service (a.k.a. BellSouth Dedicated Ring) (Cont'd)

A. Self-healing Multi-nodal Alternate Route Topology Ring (Cont'd)

10. (Cont'd)

originates/terminates in a 28 DS1 Channel System and each additional DS1 Channel Interface which originates/terminates in that same DS1 Channel System. For DS1 Channel Systems ordered under TPP, nonrecurring charges do not apply. For DS1 Channel Systems ordered on a month-to-month basis, nonrecurring charges apply. The recurring rate applies for each 28 DS1 Channel System and each DS1 Channel Interface activated per Central Office Node.

11. A nonrecurring charge applies for SMARTRing service (a.k.a. BellSouth Dedicated Ring) Surveillance, one for each Customer Node and each Central Office Node, per SMARTRing service (a.k.a. BellSouth Dedicated Ring) rearranged. A nonrecurring charge applies for Reconfiguration, one per reconfiguration of each STS-1 group at each node where such reconfiguration capability is desired. These rate elements apply when the Customer adds FlexServ service (a.k.a. BellSouth SPA Customer Reconfiguration) to an existing SMARTRing service (a.k.a. BellSouth Dedicated Ring) as set forth in E7.2.16.A preceding. **Reconfiguration is not available with 100 Mbps and 1000 Mbps BellSouth Metro Ethernet Backbone interfaces.** (C)
12. For CSPP customers, first and additional nonrecurring charges will be applied when ordering the same rate element between the same locations with the same installation date. First and additional nonrecurring charges are not applicable under TPP arrangements.
13. SMARTRing service (a.k.a. BellSouth Dedicated Ring) purchased prior to August 23, 1996, is available under several CSPP arrangements: Plan A (24-48 Months), Plan B (49-72 Months) or Plan C (73-96 Months). Renewals of existing SMARTRing service (a.k.a. BellSouth Dedicated Ring) or purchases of new SMARTRing service (a.k.a. BellSouth Dedicated Ring) on or after August 23, 1996, will only be available under TPP arrangements. In order to accommodate more flexible customer situations, SMARTRing service (a.k.a. BellSouth Dedicated Ring) is available under several TPP arrangements: Plan A (12-36 Months), Plan B (37-60 Months) or Plan C (61-96 Months). Month-to-month arrangements (with a minimum of four months) are available for SMARTRing service (a.k.a. BellSouth Dedicated Ring). (T)
14. CSPP and TPP arrangements are provided under the terms and conditions specified in E2.4.9 preceding, except as modified following. For all payment plans, the following regulations apply:
 - a. SMARTRing service (a.k.a. BellSouth Dedicated Ring), whether initially or subsequently ordered in conjunction with BellSouth Dedicated Ring, must be provided under the same TPP payment plan with the same service period and both services are to be coterminous. (T)
 - b. All rate elements, for a given SMARTRing service (a.k.a. BellSouth Dedicated Ring), whether initially or subsequently ordered, must be provided under the same payment plan with the same service period and are coterminous upon disconnect of the SMARTRing service (a.k.a. BellSouth Dedicated Ring). However, Channel Interfaces, except those utilized to interface an overlaying ring with its host ring, may be provided under a month-to-month arrangement which is equal to or less than the payment plan for the associated SMARTRing service (a.k.a. BellSouth Dedicated Ring). Customers with Channel Interfaces provided under a CSPP payment period which began prior to August 22, 1994, may convert those Channel Interfaces to a month-to-month or payment plan arrangement which is equal to or less than the payment plan for the associated SMARTRing service (a.k.a. BellSouth Dedicated Ring), at the current rates and charges. (T)
 - c. In a shared network arrangement, where the host subscriber and the connecting service user subscribes to services under CSPP or TPP arrangements, the payment periods for directly associated channelized rate elements must be equal to or less than the payment periods for the host service, or the service user must order those rate elements under month-to-month payment terms. Where the host subscriber receives services under month-to-month payment terms, a connecting user must also receive directly associated channelized rate elements under month-to-month payment terms.
15. The rates applicable to a month-to-month payment plan are subject to Telephone Company initiated charges.
16. For CSPP customers, a termination liability charge will be applicable if services 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 60 percent of the monthly rates for SMARTRing service (a.k.a. BellSouth Dedicated Ring) which includes all Nodes, Channel Interfaces, Local Channels, Alternate Central Office Channels, Internodal Channels and/or Interoffice Channels provided under the CSPP arrangement. (T)

Termination liability charges for SMARTRing service (a.k.a. BellSouth Dedicated Ring) TPP customers are applicable as specified in E2.4.9.C preceding. (T)

BELLSOUTH
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GEORGIA
ISSUED: September 29, 1998
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Original Page 33.3.3

EFFECTIVE: October 29, 1998

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(N)

E7.4 Rate Regulations (Cont'd)

(N)

E7.4.14 SMARTRing® service (a.k.a. BellSouth Dedicated Ring) (Cont'd)

(N)

A. Self-healing Multi-nodal Alternate Route Topology Ring (Cont'd)

(N)

17. When a service period under an existing CSPP or TPP arrangement is completed and a customer elects to revert to a month-to-month payment option, no minimum period is applicable. (N)
18. The TPP customer of record will have a 60 day grace period after which month-to-month rates will apply. (N)
19. Customers may upgrade from a lower capacity SMARTRing® service (a.k.a. BellSouth Dedicated Ring) to a higher capacity SMARTRing® service (a.k.a. BellSouth Dedicated Ring) without incurring any termination charges if the following conditions are met: (N)
 - a. the order for the upgraded SMARTRing® service (a.k.a. BellSouth Dedicated Ring) and the order for the disconnect of the existing SMARTRing® service (a.k.a. BellSouth Dedicated Ring) are received by the Telephone Company at the same time, (N)
 - b. the new SMARTRing® service (a.k.a. BellSouth Dedicated Ring) is provided between the same customer and Central Office locations as the discontinued SMARTRing® service (a.k.a. BellSouth Dedicated Ring), (N)
 - c. the number of Channel Interfaces activated under the new capacity SMARTRing® service (a.k.a. BellSouth Dedicated Ring) is greater than the number of Channel Interfaces activated under the existing capacity SMARTRing® service (a.k.a. BellSouth Dedicated Ring). (N)
 - d. the expiration date of the new SMARTRing® service (a.k.a. BellSouth Dedicated Ring) payment plan is subsequent to the payment plan of the ring being discontinued. (N)
20. Customers may also upgrade existing SMARTRing® service (a.k.a. BellSouth Dedicated Ring) to a new SMARTRing® service (a.k.a. BellSouth Dedicated Ring) of the same capacity without incurring a termination liability charge, if the customer is concurrently ordering a new capability which cannot be provisioned with the existing SMARTRing® service (a.k.a. BellSouth Dedicated Ring) and if the conditions set forth in 19. preceding are met. (N)
21. Ring level billing is defined as billing for the following rate elements: Local Channel, Interoffice Channel, Internodal Channel Alternate Central Office Channel, Customer Node and Central Office Node. Billing for Customer Channel Interfaces and Central Office Channel Interfaces recurring and nonrecurring charges will be effective upon activation to the SMARTRing® service (a.k.a. BellSouth Dedicated Ring). (N)
22. If the Service Establishment Date extends beyond one year from the customer's order date due to Telephone Company reasons, the preceding conversion provisions apply. If the Service Establishment Date extends beyond one year from the customer's order date for other reasons, the preceding conversion provisions do not apply and billing for all recurring and nonrecurring charges will be effective with the Service Establishment Date. (N)

BELLSOUTH
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ACCESS SERVICES TARIFF

Eighth Revised Page 33.4
Cancels Seventh Revised Page 33.4

ISSUED: October 10, 2014
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: November 9, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.15 Reserved for Future Use

E7.4.16 Reserved for Future Use

(T)

(D)

(D)

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ACCESS SERVICES TARIFF

Third Revised Page 33.5
Cancels Second Revised Page 33.5

ISSUED: April 8, 2019
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: May 8, 2019

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.17 SMARTPath Service (a.k.a. BellSouth SPA Shared Ring)

A. Application of Rates

Monthly rates and charges as specified in E7.5.17 following apply for each SMARTPath service (a.k.a. BellSouth SPA Shared Ring). The transport provided within a SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area is provided at 1.544 Mbps. Rate categories include a SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area Connection, and a SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area Junction.

The SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area Connection rate element provides for the connection at the designated premises where the customer gains access to SMARTPath service (a.k.a. BellSouth SPA Shared Ring) and transport to a designated junction on the network. The SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area Junction rate element provides for the connection between the SMARTPath service (a.k.a. BellSouth SPA Shared Ring) network and (1) another customer designated premises, in the same SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area or (2) a serving wire center in the same SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area for connection to (a) DS1 Basic Channelization, *BellSouth Customer Network Management Service*, SMARTRing service (a.k.a. BellSouth Dedicated Ring) or DS3 service as provided in Section E7. of this Tariff, or (b) a SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area Junction of another SMARTPath service (a.k.a. BellSouth SPA Shared Ring) area in the same Metropolitan Area.

Recurring and nonrecurring charges apply for each SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area Connection and SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area Junction.

SMARTPath service (a.k.a. BellSouth SPA Shared Ring) is available under several payment plans: Month-to-month (with a 4-month minimum), Plan A (24-48 Months¹), or Plan B (49-72 Months¹). Plan A and Plan B are provided under conditions specified in the Channel Services Payment Plan (CSPP) E2.4.9.A. preceding.

(C)
(N)

The rates applicable to a month-to-month payment plan are subject to Company initiated changes. Rates stabilized under CSPP are exempt from Company initiated increases, however, decreases for any rate element will automatically flow through to the customer.

A SMARTPath service (a.k.a. BellSouth SPA Shared Ring) performance credit, as specified in E2.4.4.B. will apply.

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 termination charge is equal to the applicable rate per rate element for the current contract multiplied times the difference in months between the time the CSPP contract has been in effect and the minimum contract length multiplied times a factor. The factor is 50 percent for contracts that have been in effect twelve months or less, or 20 percent for contracts that have been in effect longer than twelve months.

Virtual Collocation Cross-Connects provide a means for customers to interconnect their BellSouth SMARTPath service by means of central office cross-connect facilities. Cross-connect rates and charges to SMARTPath service are provided in E7.5 following.

E7.4.18 Zone Pricing

High Capacity (a.k.a. BellSouth SPA DS1) service (1.544 Mbps) is organized into three pricing zones. Rate levels for the Local Channel, Interoffice Channel, and DS1 Basic Channelization will be billed in accordance with the pricing zone assignment of the serving wire center. The pricing zone assignment for each Company serving wire center is specified in the National Exchange Carrier Association (NECA) Tariff F.C.C. No. 4.

Interoffice channel mileage that is divided between two serving wire centers in differently priced zones will be billed at the higher priced zone rate. Channelization rates will be determined by the location of the channelization arrangement.

Note 1: Effective May 8, 2019, Customers may not: (1) Establish CSPPs greater than 36 months for SMARTPath Service, and (2) Convert or renew CSPPs for SMARTPath Service.

(N)
(N)

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: February 10, 2005
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Original Page 33.6

EFFECTIVE: March 12, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)**

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|--|-----|
| E7.4.19 Reserved For Future Use | (N) |
| E7.4.20 Reserved For Future Use | (N) |
| E7.4.21 Reserved For Future Use | (N) |
| E7.4.22 Reserved For Future Use | (N) |
| E7.4.23 Reserved For Future Use | (N) |
| E7.4.24 Reserved For Future Use | (N) |
| E7.4.25 Reserved For Future Use | (N) |
| E7.4.26 Reserved For Future Use | (N) |
| E7.4.27 Reserved For Future Use | (N) |
| E7.4.28 Reserved For Future Use | (N) |
| E7.4.29 Reserved For Future Use | (N) |
| E7.4.30 Reserved For Future Use | (N) |
| E7.4.31 Reserved For Future Use | (N) |

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA

ACCESS SERVICES TARIFF

Third Revised Page 33.7
Cancels Second Revised Page 33.7

ISSUED: August 15, 2006
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: September 14, 2006

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service****A. General**

1. The minimum service period for BellSouth Metro Ethernet service is four (4) months.
2. Suspension of BellSouth Metro Ethernet service is not allowed.
3. BellSouth Metro Ethernet service is available 24 hours per day, 7 days per week, except for preventive maintenance.

Due to the nature of BellSouth Metro Ethernet service it will be necessary to perform preventive maintenance and software updates. This will mean that BellSouth Metro Ethernet service will be unavailable during the period of time when preventive maintenance is being performed. This could result in the service being unavailable during the period between 1:00 AM and 5:00 AM Eastern Time on Sundays and Fridays. However, the Company reserves the right to perform maintenance at any time at its discretion that it believes such maintenance is necessary. The Company will make a reasonable effort to provide notice to those customers likely to be affected by such maintenance work.

4. Obligations of customer and Company:
 - (a) The Company is not responsible for the installation, operation or maintenance of any equipment provided by the customer.
 - (b) The customer is responsible for the provision and maintenance of all customer provided equipment and to insure that the operating characteristics of this equipment is comparable with and does not interfere with the service offered by the Company.
 - (c) At the BellSouth Metro Ethernet service Connection point the customer's signals must conform to IEEE Standards 802.3, 802.3u or 802.3z. To meet end-to-end delay requirements contained in these aforementioned standards, the customer may be required to provide additional equipment.
5. In some cases, the Company and another Incumbent Local Exchange Company (ILEC) may agree to jointly provide a customer Metro Ethernet Service. The rates and charges for the BellSouth Metro Ethernet service Connection are applicable for such connectivity; charges for BellSouth Metro Ethernet Additional Mileage are also applicable when the mileage from the BellSouth/ILEC meet-point to the BellSouth Metro Ethernet wire center associated with the service is over ten (10) miles. The Company is only responsible for the ordering, provisioning, maintaining and billing of such service up to the meet-point (i.e., demarcation point with the ILEC). BellSouth Metro Ethernet service SLA credits shall only be applicable for the portion of the service provided within the territory of the Company; such credits are appropriate only for missed commitments determined to be the fault of the Company.

(M)

Material previously appearing on this page now appears on page(s) 33.8 of this section.

All BellSouth marks contained herein and as set forth in the trademarks and service marks section of the BellSouth Tariffs are owned by BellSouth Intellectual Property Corporation.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: March 16, 2007
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Second Revised Page 33.7.1
Cancels First Revised Page 33.7.1

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service****A. General (Cont'd)**

6. Basic, Premium and Virtual BellSouth Metro Ethernet Service Connections of 10 Mbps or higher may alternatively be provided to a customer premises over the customer's SMARTRing service (a.k.a. BellSouth SPA Dedicated Ring).

The customer is required to purchase the appropriate SMARTRing service (a.k.a. BellSouth SPA Dedicated Ring) BellSouth Metro Ethernet Backbone interfaces that are a bandwidth equal to the bandwidth of the BellSouth Metro Ethernet Service backbone transport that is standard for the specific type and speed of BellSouth Metro Ethernet Service Connection serving that customer premises. (A chart is provided herein which sets forth the backbone bandwidth of each type and speed of BellSouth Metro Ethernet Service Connection.) Standard BellSouth Metro Ethernet Service features are available on such alternative arrangements, with the exception that Automatic Protection Switching is not available.

For such applications using SMARTRing service (a.k.a. BellSouth SPA Dedicated Ring) as alternate transport, the BellSouth Metro Ethernet Service Connection will provide data channel transport to connect the termination of the SMARTRing service (a.k.a. BellSouth SPA Dedicated Ring) at the central office node, to the BellSouth Metro Ethernet Service wire center associated with the BellSouth Metro Ethernet Service Connection (i.e., the central office of the Metro Ethernet Service switch).

When the SMARTRing service (a.k.a. BellSouth SPA Dedicated Ring) central office node is located greater than 10 miles from the BellSouth Metro Ethernet Service wire center, BellSouth Metro Ethernet Service Additional Mileage charges will also be applicable.

For BellSouth Metro Ethernet Service Connections utilizing the customer's LightGate service or SMARTRing service as alternate transport, the committed bandwidth for select speeds will be as shown in BellSouth Technical Reference TR-73632.

| <u>Metro Ethernet Connection</u> | <u>Metro Ethernet Backbone Bandwidth</u> |
|---|---|
| Basic 10 Mbps | 100 Mbps (1 STS-1) |
| Basic 100 Mbps | 100 Mbps (3 STS-1) |
| Basic 1000 Mbps | 1000 Mbps |
| Premium 10, 20, 50 Mbps (Fixed) | 100 Mbps (1 STS-1) |
| Premium 10, 20, 50 Mbps (Burst) | 100 Mbps (3 STS-1) |
| Premium 100 Mbps (Fixed) | Fractional 1000 Mbps at 150 Mbps |
| Premium 250 Mbps (Fixed) | Fractional 1000 Mbps at 300 Mbps |
| Premium 500 Mbps (Fixed) | Fractional 1000 Mbps at 600 Mbps |
| Premium 100, 250, 500 Mbps (Burst) | 1000 Mbps |
| Virtual 10, 20, 50 Mbps | 100 Mbps (1 STS-1) |
| Virtual 80 Mbps | 100 Mbps (3 STS-1) |
| Virtual 100 Mbps | Fractional 1000 Mbps at 150 Mbps |
| Virtual 200, 300 Mbps | Fractional 1000 Mbps at 300 Mbps |
| Virtual 450 Mbps | Fractional 1000 Mbps at 450 Mbps |
| Virtual 600 Mbps | Fractional 1000 Mbps at 600 Mbps |
| Virtual 750, 900 Mbps | 1000 Mbps |

7. In some cases, the Telephone Company and an Independent Telephone Company (ICO) may agree to jointly provide a customer Metro Ethernet Service. The rates and charges for the BellSouth Metro Ethernet Service Connection are applicable for such connectivity; charges for BellSouth Metro Ethernet Additional Mileage are also applicable when the mileage from the BellSouth/ICO meet-point to the BellSouth Metro Ethernet wire center associated with the service is over 10 miles. The Telephone Company is only responsible for the ordering, provisioning, maintaining and billing of such service up to the meet-point (i.e., demarcation point with the ICO). BellSouth Metro Ethernet Service SLA credits shall only be applicable for the portion of the service provided within the territory of the Telephone Company; such credits are appropriate only for missed commitments determined to be the fault of the Telephone Company.

(N)

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ACCESS SERVICES TARIFF

Fifth Revised Page 33.8
Cancels Fourth Revised Page 33.8

ISSUED: June 4, 2014
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: July 4, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.4 Rate Regulations (Cont'd)

E7.4.32 BellSouth Metro Ethernet Service (Cont'd)

B. Rate Categories and Regulations

1. The following rate categories apply for BellSouth Metro Ethernet service. Applicable rates and charges are provided in E7.5.22 following.
 - (a) Basic BellSouth Metro Ethernet service Connection
 - (b) Premium BellSouth Metro Ethernet service Connection
 - (c) (D)
 - (d) Virtual BellSouth Metro Ethernet service Connection
 - (e) BellSouth Metro Ethernet service Additional Mileage Charge
 - (f) Priority Plus Feature
 - (g) Q-Forwarding Feature
 - (h) VLAN Aggregation Feature
 - (i) *CNM* - Metro Ethernet Reporting Feature
 - (j) Class of Service (CoS) Profile
 - (k) Automatic Protection Switching Feature
 - (l) Service Reconfiguration Charge
 - (m) System Reconfiguration Charge
2. BellSouth Metro Ethernet service is available under month-to-month rates as provided in E7.5.22.A. following or under the optional Transport Payment Plan (TPP) (as described in E2.4.9.C. of this Tariff) to receive the TPP rates provided in E7.5.22.B. following.
3. BellSouth Metro Ethernet service Connections are provided utilizing various Ethernet equipment configurations referred to herein as "physical service types". The physical service type of each BellSouth Metro Ethernet Connection is provided in the chart in 5. following.
4. A hierarchy of the various BellSouth Metro Ethernet service Connections by capability (i.e., basic, premium and virtual) and speed is provided in the chart in 5. following. This chart provides a higher order of service ranking that is utilized to determine the appropriate nonrecurring charges for service reconfiguration requests. This ranking is also utilized to determine if termination liability is applicable for specific reconfiguration requests if the service is under a TPP term commitment. (D)

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: June 4, 2014
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Third Revised Page 33.8.1
Cancels Second Revised Page 33.8.1

EFFECTIVE: July 4, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service (Cont'd)****B. Rate Categories and Regulations (Cont'd)**

5. The following informational chart provides the physical service type of each BellSouth Metro Ethernet Connection and provides the other BellSouth Metro Ethernet Connections which are considered to be a higher order of service (BellSouth Metro Ethernet service hierarchy).

| Metro Ethernet Connection (Mbps): | Physical Service Type: | Higher Order of Service (Mbps): |
|--|-------------------------------|---|
| - Basic 2 | Basic 0 | Basic 4,8,10,100,1000; Premium ¹ 2, 4, 8,10,20,50,100,250,500; Virtual 2,4,8,10,20,50,80,100,200,300,450,600,750,900 |
| - Basic 4 | Basic 0 | Basic 8,10,100,1000; Premium ¹ 4, 8,10,20,50,100,250,500; Virtual 4,8,10,20,50,80,100,200,300,450,600,750,900 |
| - Basic 8 | Basic 0 | Basic 10,100,1000; Premium ¹ 8,10,20,50,100,250,500; Virtual 8,10,20,50,80,100,200,300,450,600,750,900 |
| - Basic 10 | Basic I | Basic 100,1000; Premium ¹ 10,20,50,100,250,500,900 ² ; Virtual 10,20,50,80,100,200,300,450,600,750,900 |
| - Basic 100 | Basic II | Basic 1000; Premium ¹ 100,250,500,900 ² ; Virtual 80,100,200,300,450,600,750,900 |
| - Basic 1000 | Basic III | Premium ¹ 500,900 ² ; Virtual 450,600,750,900 |
| - Premium 2 | Premium 0 | Basic 100,1000; Premium ¹ 4,8,10,20,50,100,250,500; Virtual 2,4,8,10,20,50,80,100,200,300,450,600,750,900 |
| - Premium 4 | Premium 0 | Basic 100,1000; Premium ¹ 8,10,20,50,100,250,500; Virtual 4,8,10,20,50,80,100,200,300,450,600,750,900 |
| - Premium 8 | Premium 0 | Basic 100,1000; Premium ¹ 10,20,50,100,250,500; Virtual 8,10,20,50,80,100,200,300,450,600,750,900 |
| - Premium ¹ 10 | Premium I | Basic 1000; Premium ¹ 20,50,100,250,500,900 ² ; Virtual 10,20,50,80,100,200,300,450,600,750,900 |
| - Premium ¹ 20 | Premium I | Basic 1000; Premium ¹ 50,100,250,500,900 ² ; Virtual 20,50,80,100,200,300,450,600,750,900 |
| - Premium ¹ 50 | Premium I | Premium ¹ 100,250,500,900 ² ; Virtual 50,80,100,200,300,450,600,750,900 |
| - Premium ¹ 100 | Premium II | Premium ¹ 250,500,900 ² ; Virtual 100,200,300,450,600,750,900 |
| - Premium ¹ 250 | Premium II | Premium ¹ 500,900 ² ; Virtual 300,450,600,750,900 |
| - Premium ¹ 500 | Premium II | Premium 900 ² ; Virtual 450,600,750,900 |
| - Premium 900 ² | Premium II | Virtual 900 |
| - Virtual 2 | Virtual 0 | Basic 100,1000; Premium ¹ 10,20,50,100,250,500; Virtual 4,8,10,20,50,80,100,200,300,450,600,750,900 |
| - Virtual 4 | Virtual 0 | Basic 100,1000; Premium ¹ 10,20,50,100,250,500; Virtual 8,10,20,50,80,100,200,300,450,600,750,900 |
| - Virtual 8 | Virtual 0 | Basic 100,1000; Premium ¹ 10,20,50,100,250,500; Virtual 10,20,50,80,100,200,300,450,600,750,900 |
| - Virtual 10 | Virtual I | Basic 1000; Premium ¹ 20,50,100,250,500,900 ² ; Virtual 20,50,80,100,200,300,450,600,750,900 |
| - Virtual 20 | Virtual I | Basic 1000; Premium ¹ 50,100,250,500,900 ² ; Virtual 50,80,100,200,300,450,600,750,900 |
| - Virtual 50 | Virtual II | Basic 1000; Premium ¹ 100,250,500,900 ² ; Virtual 80,100,200,300,450,600,750,900 |
| - Virtual 80 | Virtual II | Basic 1000; Premium ¹ 100,250,500,900 ² ; Virtual 100,200,300,450,600,750,900 |
| - Virtual 100 | Virtual II | Premium ¹ 250,500,900 ² ; Virtual 200,300,450,600,750,900 |
| - Virtual 200 | Virtual II | Premium ¹ 500,900 ² ; Virtual 300,450,600,750,900 |
| - Virtual 300 | Virtual II | Premium ¹ 500,900 ² ; Virtual 450,600,750,900 |
| - Virtual 450 | Virtual II | Premium 900 ² ; Virtual 600,750,900 |
| - Virtual 600 | Virtual II | Premium 900 ² ; Virtual 750,900 |
| - Virtual 750 | Virtual II | Premium 900 ² ; Virtual 900 |
| - Virtual 900 | Virtual II | None offered at this time |

Note in the above chart that the reference to Basic 1000 Mbps refers to Basic 1 Gbps.

Note 1: Fixed Mode or Burst Mode.

Note 2: Premium 900 Mbps only available as Fixed Mode.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA

ACCESS SERVICES TARIFF

First Revised Page 33.8.2
Cancels Original Page 33.8.2

ISSUED: August 15, 2006
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: September 14, 2006

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service (Cont'd)****B. Rate Categories and Regulations (Cont'd)**

6. A BellSouth Metro Ethernet reconfiguration nonrecurring charge is applicable for a customer request to reconfigure (rearrange) an existing BellSouth Metro Ethernet Connection. The appropriate reconfiguration charge is dependent upon the physical work required to fulfill the request and applies in lieu of other nonrecurring charges.
 A Service Reconfiguration Charge is applicable for requests where the work required is a minor change that does not involve changing the physical service type. The Service Reconfiguration Charge is applicable for a request to change an existing connection to a different connection that is the same physical service type *that is a lower order of service*, is applicable for a request to change a Premium connection from fixed mode to burst mode (and vice versa) and is applicable for a request to change a Premium connection to add or delete the Priority Plus feature. The Service Reconfiguration Charge is also applicable for changing an existing Virtual connection CoS Profile. (C)
 A System Reconfiguration Charge is applicable for requests where the work required involves changing to a different physical service type or involves major support system changes. The System Reconfiguration Charge is applicable for requests to change an existing connection to a different connection that is a different physical service type *that is a lower order of service*, to change the network channel terminating equipment (NCTE) interface option from optical to electrical (or vice-versa), and to change the premises powering options from AC power to DC power (or vice-versa). (C)
7. **(DELETED)** (D)

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: May 17, 2006
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Second Revised Page 33.9
Cancels First Revised Page 33.9

EFFECTIVE: June 16, 2006

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service (Cont'd)****B. Rate Categories and Regulations (Cont'd)**

8. A Premium BellSouth Metro Ethernet Connection-Fixed Mode and Premium BellSouth Metro Ethernet Connection-Burst Mode of the same speed are considered to be the same order of service and same physical service type. A Service Reconfiguration Charge is applicable for a customer request to reconfigure a Premium BellSouth Metro Ethernet Connection from Fixed Mode to Burst Mode (at the same speed), or vice versa; this nonrecurring charge is in lieu of the nonrecurring charge for the new connection. Such a change is not treated as a disconnect and there will be no change in the minimum period requirements.

A Virtual BellSouth Metro Ethernet Connection request to modify its CoS Profile is not considered as a request to change the order of service or physical service type. A Service Reconfiguration Charge is applicable for such requests. (N)

9. Except as specified in 8. preceding, a BellSouth Metro Ethernet Connection not shown as a higher order of service in the hierarchy chart in 5. preceding for a given BellSouth Metro Ethernet Connection is considered to be a lower order of service. A reconfiguration charge is applicable for a customer request to change an existing BellSouth Metro Ethernet Connection to a different BellSouth Metro Ethernet Connection that is a lower order of service; the appropriate reconfiguration charge is applicable in lieu of the standard nonrecurring charge for the lower order of service connection. A Service Reconfiguration Charge is applicable when the lower order of service connection is the same physical service type; a System Reconfiguration Charge is applicable when the lower order of service is a different physical service type. New minimum period requirements are established for the lower order of service connection.

10. A System Reconfiguration Charge is applicable for a customer request to change the premises powering option (AC power to DC power) or NCTE signaling interface option (optical to electrical, or vice-versa) on an existing BellSouth Metro Ethernet Connection. Such a change is not treated as a disconnect and there will be no change in the minimum period requirements.

11. A move of a BellSouth Metro Ethernet service will be as follows (in accordance with E7.4.5 preceding and, if applicable, E2.4.9.C.5. of this Tariff).

When the move is to a new location within the same building, the charge for the move will be an amount equal to one-half of the Connection nonrecurring charge. There will be no change in the minimum period requirements.

When the move is to a new location in a different building that is within the same serving wire center, the charge for the move will be the nonrecurring charge for the BellSouth Metro Ethernet service Connection. New minimum period requirements will be established.¹

When the move is to a new location in a different building that is not in the same serving wire center, the request is treated as a discontinuance and start of service and all associated BellSouth Metro Ethernet service nonrecurring charges will apply. New minimum period requirements will be established.¹

Note 1: Such moves of Metro Ethernet Service with Automatic Protection Switching (APS) shall additionally incur the full nonrecurring charge for establishing the APS feature at the new premises (as a new APS design will be required). The APS monthly recurring charge may change as appropriate based upon the actual route mileage associated with the new premises' APS design.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA

ACCESS SERVICES TARIFF

Third Revised Page 33.10
Cancels Second Revised Page 33.10

ISSUED: January 17, 2007
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: February 16, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service (Cont'd)****C. Service Level Agreement for Premium BellSouth Metro Ethernet service**

Customer networks with Premium BellSouth Metro Ethernet service and **CNM** - Metro Ethernet Reporting are provided Service Level Agreements (SLAs) as summarized herein E7.4.32.C. BellSouth Metro Ethernet Service SLAs outlined herein specify the Company's repair and performance commitments for **CNM** - Metro Ethernet Reporting customers with Premium Metro Ethernet Connections. Details of the technical measurements and performance results methodologies for each commitment are provided in BellSouth Technical Reference TR-73632. (T)

In accordance with E7.4.32.C.3.(c) following, credits are available for missed commitments to customers purchasing Premium BellSouth Metro Ethernet service with the **CNM** - Metro Ethernet Reporting feature. Credits only apply for portions of service provided by the Company. (T)

The following service measurements will outline the service levels the Telephone Company will deliver to **CNM** - Metro Ethernet Reporting customers with Premium Metro Ethernet Connections: (T)

Repair Commitment:

- BellSouth Metro Ethernet service Time-to-Repair¹

Network Service Level Commitments:

- BellSouth Metro Ethernet service Core Network Availability
- BellSouth Metro Ethernet service Core Network Latency

The Repair Commitment is measured on a per occurrence basis for each BellSouth Metro Ethernet Connection. A Fault Report is produced thru the **CNM** - Metro Ethernet Reporting system that aids identification of potential outage durations upon which credits may be requested. (T)

The Network Service Level Commitments are measured on the monthly performance of the Metro Ethernet core network during a specific calendar month. An SLA Report is produced thru the **CNM** - Metro Ethernet Reporting system that provides details of missed Network Service Level Commitments upon which credits may be requested based upon a specific calendar month's performance results. (T)

The Company's performance measurement data for the Repair Commitment and Network Service Level Commitments will be collected and calculated utilizing the Company's internal processes as set forth in BellSouth Technical Reference TR-73632. The Company's calculation of its performance shall be the sole determinate of the Company's obligation to provide a credit for a missed performance commitment.

1. SLA Definitions**BellSouth Metro Ethernet service Time to Repair**

- BellSouth Metro Ethernet service Time-To-Repair measures the outage duration on a customer's BellSouth Metro Ethernet Connection. This measure will require the customer to report the problem to the BellSouth repair center.
- The repair interval will start with the time the trouble ticket is created and end when the fault is re-mediated. The Service Level Commitment measurement will be based on each individual trouble ticket for a customer's connection. Time for scheduled maintenance windows (as set forth in E7.4.32.A.3. preceding) does not count towards SLA threshold.

BellSouth Metro Ethernet service Network Availability

- BellSouth Metro Ethernet service Network Availability measures the percentage of time during a calendar month that the customer's service is unavailable on the core network. The core network is defined as being from the Ethernet switch serving the customer's A-end to the Ethernet switch serving the customer's B-end. Customer networks that do not span more than one switch in the core network are not eligible for the Network Availability SLA, and one will not be provided.
- This Service Level Commitment will be calculated by measuring and summing the outage for each core network component used by the customer, divided by the total number of components, times the total service time for a particular calendar month. Excluded from the outage time and service time are scheduled maintenance windows (as set forth in E7.4.32.A.3. preceding) and time the network was unavailable due to circumstances outside the Company's control (as set forth in E7.4.32.C.3.(b) following).

Note 1: SLA not applicable if missed due to SMARTRing service (a.k.a BellSouth SPA Dedicated Ring) outage where BellSouth Metro Ethernet is using SMARTRing service (a.k.a BellSouth SPA Dedicated Ring) as alternate transport.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: January 17, 2007
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Second Revised Page 33.11
Cancels First Revised Page 33.11

EFFECTIVE: February 16, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service (Cont'd)****C. Service Level Agreement for Premium BellSouth Metro Ethernet service¹ (Cont'd)****1. SLA Definitions (Cont'd)**

BellSouth Metro Ethernet service Network Latency

- BellSouth Metro Ethernet service Network Latency measures average one-way delay in milliseconds within the core network. The core network is defined as being from the Ethernet switch serving the customer's A-end to the Ethernet switch serving the customer's B-end. Customer networks that do not span more than one switch in the core network are not eligible for the Network Latency SLA, and one will not be provided.
- This Service Level Commitment will be calculated by averaging the measured latency of simulated traffic within the Metro Ethernet Customer Network (i.e., between each pair of connections) during a calendar month.

2. The Company's Service Level Commitments for Premium BellSouth Metro Ethernet service are as follows:

- BellSouth Metro Ethernet service Time-To-Repair – 4 hours or less
- BellSouth Metro Ethernet service Network Availability – 99.9% or higher
- BellSouth Metro Ethernet service Network Latency – 55 milliseconds or less

3. SLA Restrictions

- (a) The Company will implement SLA provisioning restrictions that will define customer network design requirements and limitations to BellSouth's commitment to meet Service Levels for BellSouth Metro Ethernet service. The customer network design requirements are as follows:
 - A customer must subscribe to the Metro Ethernet Premium Service with **CNM** - Metro Ethernet Reporting to receive credits for missed Service Level Commitments. (T)
 - Credits are not provided for partial month service.
 - A customer's account must be current to receive a credit.
- (b) SLA Credits do not apply when any stated objective is not met because the Company does not have control over the circumstances causing the objective to be missed. Situations over which the Company does not have control include, but are not limited to, the following:
 - any act, any omission or negligence on the part of the customer, any other customer or any third party, or of any other entity providing a portion of the service,
 - labor difficulties, governmental orders, civil commotions, acts of civil or military authority, embargoes, epidemics, declared National Emergencies, criminal actions against the Company, war, terrorist acts, riots, insurrections, fires, explosions, nuclear accidents, power blackouts, acts of God (including, but not limited to, earthquakes, floods or unusually severe weather) or other circumstances beyond the Company's control,
 - the customer's premises equipment, and
 - unavailability of the customer's facilities and/or equipment including customer-provided power and environmental conditions for BellSouth-owned and operated equipment located on the customer's premises.
- (c) The Customer must request a credit within one month of the Company missing a BellSouth Metro Ethernet service Level Commitment. A customer request for a Network Service Level SLA credit must be submitted on a standard request form issued by the Company that includes the month the SLA commitment was missed, accurate identification of the affected circuit, and the observed measurement of the specific SLA that was missed. A customer request for a Repair SLA credit must be submitted on a standard request form issued by the Company that includes the month the SLA commitment was missed, accurate identification of the affected circuit, and the trouble ticket number of the repair request. The Company will investigate customer requests for any SLA credits to determine the cause of any performance failures reported by the customer. The Company will investigate the customer's request over a period of up to 45 calendar days. The 45-day period will begin when the customer makes the request for credit with their BellSouth Sales Representative. SLA credits will be provided to the customer if the Company determines that the Company had control over the circumstances causing the failure.

Note 1: Details of the technical measurements and performance results methodologies for each Commitment are provided in BellSouth Technical Reference TR-73632.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA

ACCESS SERVICES TARIFF

Second Revised Page 33.12
Cancels First Revised Page 33.12

ISSUED: January 17, 2007
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: February 16, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service (Cont'd)****C. Service Level Agreement for Premium BellSouth Metro Ethernet service¹ (Cont'd)****4. SLA Credits for Premium Connections with *CNM* - Metro Ethernet Reporting** (T)

The following credits will apply when the Company misses a Service Level Commitment (each credit is described in (a) thru (c) following):

BellSouth Metro Ethernet service Time-To-Repair:

- 0 to 4 hours per incident: No Credit
- Over 4 hours to 24 hours per incident: A credit equal to 3/30 of the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection
- Each additional 24-hour period, per incident: Credit an additional amount equal to 3/30 of the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection

BellSouth Metro Ethernet service Network Availability:

- A credit equal to 3/30 of the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection.

BellSouth Metro Ethernet service Network Latency:

- A credit equal to 3/30 of the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection.

The SLA credit amount will be determined by applying the credits outlined preceding to the rate elements or total billed revenues specified following.

The total credits issued for all SLAs for a specific BellSouth Metro Ethernet service Connection during a single bill period may not exceed the total monthly recurring charges billed for all the rate elements associated with that BellSouth Metro Ethernet service Connection. Credits are not provided for partial month service.

- (a) BellSouth Metro Ethernet service Time-To-Repair Credit – The Service Level Commitment measurement will be based on each individual trouble ticket for a customer's connection. Multiple trouble tickets on the same day for the same customer connection will only be eligible for one time-to-repair credit. The SLA credit will apply to the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection.
- (b) BellSouth Metro Ethernet service Network Availability Credit³ – The Service Level commitment measurement will be based on a specific calendar month's performance. The credit will apply for each BellSouth Metro Ethernet service connection that does not meet the availability commitment. The SLA credit will apply to the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection.
- (c) BellSouth Metro Ethernet service Latency Credit³ – The Service Level commitment measurement will be based on a specific calendar month's performance. The credit will apply for each BellSouth Metro Ethernet service connection that does not meet the latency commitment. The SLA credit will apply to the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection.

Note 1: Details of the technical measurements and performance results methodologies for each Commitment are provided in BellSouth Technical Reference TR-73632.

Note 2: Specifically, rate elements for the Metro Ethernet Connection, Additional Mileage and Features.

Note 3: BellSouth Metro Ethernet networks that do not span more than one switch in the core network are not eligible for credits under this SLA.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA

ACCESS SERVICES TARIFF

Second Revised Page 33.13
Cancels First Revised Page 33.13

ISSUED: January 17, 2007
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: February 16, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service (Cont'd)****D. Service Level Agreement for Virtual BellSouth Metro Ethernet Service**

Customer networks with Virtual BellSouth Metro Ethernet Service and **CNM** - Metro Ethernet Reporting are provided Service Level Agreements (SLAs) as summarized herein E7.4.32.D. BellSouth Metro Ethernet Service SLAs outlined herein specify the Telephone Company's repair and performance commitments for **CNM** - Metro Ethernet Reporting customers with Virtual Metro Ethernet Connections. SLAs will be applied on a per Class of Service (CoS) basis for Virtual Connections; traffic representing the different CoS (i.e., Best Effort, Business Critical, Real-Time and Interactive) transported across the same Virtual Connection will have different SLAs. Details of the technical measurements and performance results methodologies for each commitment are provided in BellSouth Technical Reference TR-73632.

(T)

In accordance with E7.4.32.D.3.(c) following, credits are available for missed commitments to customers purchasing Virtual BellSouth Metro Ethernet Service with the Metro Ethernet Reporting feature. Credits only apply for portions of service provided by the Telephone Company.

The following service measurements will outline the service levels the Telephone Company will deliver to Metro Ethernet Reporting customers with Virtual Metro Ethernet Connections:

Repair Commitment:

- BellSouth Metro Ethernet service Time-to-Repair¹

Network Service Level Commitments:

- BellSouth Metro Ethernet service Core Network Availability
- BellSouth Metro Ethernet service Core Network Latency²
- BellSouth Metro Ethernet service Core Network Jitter^{2,3}
- BellSouth Metro Ethernet service Core Network Packet Delivery²

The Repair Commitment is measured on a per occurrence basis for each BellSouth Metro Ethernet Connection for all CoS. A Fault Report is produced thru the Metro Ethernet Reporting system that aids identification of potential outage durations upon which credits may be requested.

The Network Service Level Commitments are measured on the monthly performance of the Metro Ethernet core network during a specific calendar month by CoS. An SLA Report is produced thru the Metro Ethernet Reporting system that provides details of missed Network Service Level Commitments by CoS upon which credits may be requested based upon a specific calendar month's performance results.

The Company's performance measurement data for the Repair Commitment and Network Service Level Commitments will be collected and calculated utilizing the Company's internal processes as set forth in BellSouth Technical Reference TR-73632. The Company's calculation of its performance shall be the sole determinate of the Company's obligation to provide a credit for a missed performance commitment.

Note 1: SLA not applicable if missed due to SMARTRing service (a.k.a BellSouth SPA Dedicated Ring) outage where BellSouth Metro Ethernet is using SMARTRing service (a.k.a BellSouth SPA Dedicated Ring) as alternate transport.

Note 2: SLA not applicable for Best Effort CoS.

Note 3: SLA not applicable for Business Critical CoS.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: May 17, 2006
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Original Page 33.14

EFFECTIVE: June 16, 2006

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service (Cont'd)****D. Service Level Agreement for Virtual BellSouth Metro Ethernet service¹ (Cont'd)****1. SLA Definitions****BellSouth Metro Ethernet service Time to Repair**

- BellSouth Metro Ethernet Service Time-To-Repair measures the outage duration on a customer's BellSouth Metro Ethernet Connection for all CoS. This measure will require the customer to report the problem to the BellSouth repair center. (N)
- The repair interval will start with the time the trouble ticket is created and end when the fault is re-mediated. The Service Level Commitment measurement will be based on each individual trouble ticket for a customer's connection. Time for scheduled maintenance windows (as set forth in E7.4.32.A.3.) does not count towards SLA threshold. (N)

BellSouth Metro Ethernet service Network Availability

- BellSouth Metro Ethernet Service Network Availability measures the percentage of time by CoS during a calendar month that the customer's service is unavailable on the core network. The core network is defined as being from the Ethernet switch serving the customer's A-end to the Ethernet switch serving the customer's B-end. Customer networks that do not span more than one switch in the core network are not eligible for the Network Availability SLA, and one will not be provided. (N)
- This Service Level Commitment will be calculated by CoS by measuring and summing the outage for each core network component used by the customer, divided by the total number of components, times the total service time for a particular calendar month. Excluded from the outage time and service time are scheduled maintenance windows (as set forth in E7.4.32.A.3.) and time the network was unavailable due to circumstances outside the Telephone Company's control (as set forth in E7.4.32.D.3.(b)). (N)

BellSouth Metro Ethernet service Network Latency

- BellSouth Metro Ethernet Service Network Latency measures average one-way delay in milliseconds within the core network. The core network is defined as being from the Ethernet switch serving the customer's A-end to the Ethernet switch serving the customer's B-end. Customer networks that do not span more than one switch in the core network are not eligible for the Network Latency SLA, and one will not be provided. (N)
- This Service Level Commitment will be calculated for each CoS (except the Best Effort CoS) by averaging the measured latency of simulated traffic for each eligible CoS within the Metro Ethernet Customer Network (i.e., between each pair of connections) during a calendar month. (N)

BellSouth Metro Ethernet service Network Jitter

- BellSouth Metro Ethernet Service Jitter measures the average variability, measured in time (milliseconds) between the actual packet transmission rate and the expected packet transmission rate within the core network for Interactive and Real-Time CoS. The core network is defined as being from the Ethernet switch serving the customer's A-end to the Ethernet switch serving the customer's B-end. (N)
- This Service Level Commitment will be calculated for the Interactive CoS and Real-Time CoS by averaging the measured jitter of simulated traffic for each of the customer's eligible CoS queue within the Metro Ethernet Customer Network (i.e., between each pair of connections) during a calendar month. (N)

BellSouth Metro Ethernet service Packet Delivery

- BellSouth Metro Ethernet Service Network Packet Delivery measures the percentage of packets conforming to the committed bandwidth profile that are delivered across the core network, without being dropped or lost as a result of a fault within the Virtual Ethernet network. The core network is defined as being from the Ethernet switch serving the customer's A-end to the Ethernet switch serving the customer's B-end. (N)
- This Service Level Commitment will be calculated for each CoS (except the Best Effort CoS) by averaging the measured packet delivery of simulated traffic for eligible CoS within the Metro Ethernet Customer Network (i.e., between each pair of connections) during a calendar month. (N)

Note 1: Details of the technical measurements and performance results methodologies for each commitment are provided in BellSouth Technical Reference TR-73632. (N)

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: May 17, 2006
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Original Page 33.15

EFFECTIVE: June 16, 2006

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service (Cont'd)**

D. Service Level Agreement for Virtual BellSouth Metro Ethernet service¹ (Cont'd) (N)

2. The Telephone Company's Service Level Commitments for Virtual BellSouth Metro Ethernet service are as follows: (N)

Time to Repair (N)

- Best Effort CoS: 4 hours or less (N)
- Business Critical CoS: 4 hours or less (N)
- Interactive CoS: 4 hours or less (N)
- Real-Time CoS: 4 hours or less (N)

Network Availability (N)

- Best Effort CoS: 99.500% or greater (N)
- Business Critical CoS: 99.995% or greater (N)
- Interactive CoS: 99.995% or greater (N)
- Real-Time CoS: 99.995% or greater (N)

Latency (one-way) (N)

- Best Effort CoS: Not Applicable (N)
- Business Critical CoS: 15 milliseconds or less (N)
- Interactive CoS: 5 milliseconds or less (N)
- Real-Time CoS: 5 milliseconds or less (N)

Jitter (N)

- Best Effort CoS: Not Applicable (N)
- Business Critical CoS: Not Applicable (N)
- Interactive CoS: 1 millisecond or less (N)
- Real-Time CoS: 1 millisecond or less (N)

Packet Delivery (N)

- Best Effort CoS: Not Applicable (N)
- Business Critical CoS: 99.900% or greater (N)
- Interactive CoS: 99.950% or greater (N)
- Real-Time CoS: 99.995% or greater (N)

Note 1: Details of the technical measurements and performance results methodologies for each commitment are provided in BellSouth Technical Reference TR-73632. (N)

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ISSUED: January 17, 2007
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EFFECTIVE: February 16, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service (Cont'd)****D. Service Level Agreement for Virtual BellSouth Metro Ethernet service¹ (Cont'd)****3. SLA Restrictions**

- (a) The Telephone Company will implement SLA provisioning restrictions that will define customer network design requirements and limitations to BellSouth's commitment to meet Service Levels for BellSouth Metro Ethernet Service. The customer network design requirements are as follows:
 - A customer must subscribe to the Metro Ethernet Virtual Service with **CNM** - Metro Ethernet Reporting to receive credits for missed Service Level Commitments. (T)
 - Credits are not provided for partial month service.
 - A customer's account must be current to receive a credit.
- (b) SLA Credits do not apply when any stated objective is not met because the Telephone Company does not have control over the circumstances causing the objective to be missed. Situations over which the Telephone Company does not have control include, but are not limited to, the following:
 - any act, any omission or negligence on the part of the customer, any other customer or any third party, or of any other entity providing a portion of the service,
 - labor difficulties, governmental orders, civil commotions, acts of civil or military authority, embargoes, epidemics, declared National Emergencies, criminal actions against the Telephone Company, war, terrorist acts, riots, insurrections, fires, explosions, nuclear accidents, power blackouts, acts of God (including, but not limited to, earthquakes, floods or unusually severe weather) or other circumstances beyond the Telephone Company's control,
 - the customer's premises equipment, and
 - unavailability of the customer's facilities and/or equipment including customer-provided power and environmental conditions for BellSouth-owned and operated equipment located on the customer's premises.
- (c) The Customer must request a credit within one month of the Telephone Company missing a BellSouth Metro Ethernet Service Level Commitment. A customer request for a Network Service Level SLA credit must be submitted on a standard request form issued by the Company that includes the month the SLA commitment was missed, accurate identification of the affected circuit, and the observed measurement of the specific SLA that was missed. A customer request for a Repair SLA credit must be submitted on a standard request form issued by the Company that includes the month the SLA commitment was missed, accurate identification of the affected circuit, and the trouble ticket number of the repair request. The Telephone Company will investigate customer requests for any SLA credits to determine the cause of any performance failures reported by the customer. The Telephone Company will investigate the customer's request over a period of up to 45 calendar days. The 45-day period will begin when the customer makes the request for credit with their BellSouth Sales Representative. SLA credits will be provided to the customer if the Company determines that the Telephone Company had control over the circumstances causing the failure.

Note 1: Details of the technical measurements and performance results methodologies for each commitment are provided in BellSouth Technical Reference TR-73632.

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ISSUED: January 17, 2007
BY: President - Georgia
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First Revised Page 33.17
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EFFECTIVE: February 16, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service (Cont'd)****D. Service Level Agreement for Virtual BellSouth Metro Ethernet service¹ (Cont'd)****4. SLA Credits for Virtual Connections with *CNM* - Metro Ethernet Reporting (Cont'd)** (T)

The following credits will apply when the Telephone Company misses a Service Level Commitment on any single CoS (each credit is described in (a) thru (e) following). A maximum of one credit will be applied monthly per Connection for an SLA not met for any CoS that is supported by the customer's CoS profile (i.e., a maximum of one credit is applicable for an SLA even if missed for multiple CoS).

BellSouth Metro Ethernet service Time-To-Repair:

- 0 to 4 hours per incident: No Credit
- Over 4 hours to 24 hours per incident: A credit equal to 3/30 of the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection
- Each additional 24-hour period, per incident: Credit an additional amount equal to 3/30 of the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection

BellSouth Metro Ethernet service Network Availability: A credit equal to 3/30 of the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection

BellSouth Metro Ethernet service Latency: A credit equal to 3/30 of the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection.

BellSouth Metro Ethernet service Jitter: A credit equal to 3/30 of the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection.

BellSouth Metro Ethernet service Packet Delivery: A credit equal to 3/30 of the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection.

Note 1: Details of the technical measurements and performance results methodologies for each commitment are provided in BellSouth Technical Reference TR-73632.

Note 2: Specifically, rate elements for the Metro Ethernet Connection, Additional Mileage and Features.

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First Revised Page 33.18
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ISSUED: January 17, 2007
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: February 16, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.32 BellSouth Metro Ethernet Service (Cont'd)****D. Service Level Agreement for Virtual BellSouth Metro Ethernet service¹ (Cont'd)****4. SLA Credits for Virtual Connections with *CNM* - Metro Ethernet Reporting (Cont'd)** (T)

The SLA credit amount will be determined by applying the credits outlined preceding to the rate elements or total billed revenues specified following:

The total credits issued for all SLAs for a specific BellSouth Metro Ethernet service Connection during a single bill period may not exceed the total monthly recurring charges billed for all the rate elements associated with that BellSouth Metro Ethernet service Connection. Credits are not provided for partial month service.

- (a) BellSouth Metro Ethernet Service Time-To-Repair Credit – The Service Level Commitment measurement will be based on each individual trouble ticket for a customer's connection. Multiple trouble tickets on the same day for the same customer connection will only be eligible for one time-to-repair credit. The SLA credit will apply to the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection
- (b) BellSouth Metro Ethernet Service Network Availability Credit³ – The Service Level Commitment measurement will be based on a specific calendar month's performance. The credit will apply for each BellSouth Metro Ethernet Service Connection that does not meet the availability commitment. The SLA credit will apply to the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection.
- (c) BellSouth Metro Ethernet Service Latency Credit³ – The Service Level Commitment measurement will be based on a specific calendar month's performance. The credit will apply for each BellSouth Metro Ethernet Service Connection that does not meet the latency Commitment for any eligible CoS. The SLA credit will apply to the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection.
- (d) BellSouth Metro Ethernet Service Jitter Credit³ – The Service Level Commitment measurement will be based on a specific calendar month's performance. The credit will apply for each BellSouth Metro Ethernet Service Connection that does not meet the jitter Commitment for any eligible CoS. The SLA credit will apply to the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection.
- (e) BellSouth Metro Ethernet Service Packet Delivery Credit³ – The Service Level Commitment measurement will be based on a specific calendar month's performance. The credit will apply for each BellSouth Metro Ethernet Service Connection that does not meet the packet delivery commitment for any eligible CoS. The SLA credit will apply to the monthly recurring charges for all the rate elements² associated with the affected Metro Ethernet Connection.

Note 1: Details of the technical measurements and performance results methodologies for each commitment are provided in BellSouth Technical Reference TR-73632.

Note 2: Specifically, rate elements for the Metro Ethernet Connection, Additional Mileage and Features.

Note 3: BellSouth Metro Ethernet networks that do not span more than one switch in the core network are not eligible for credits under this SLA.

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ISSUED: April 8, 2003
BY: President - Georgia
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EFFECTIVE: May 8, 2003

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH® SPA) SERVICE

(T)

E7.5 Rates And Charges**E7.5.1 Reserved for Future Use****E7.5.2 Telegraph Grade (a.k.a. BellSouth® SPA Telegraph) Service¹**

(T)

A. Local Channel

1. Per Point of Termination

| | | Monthly Rate | Nonrecurring Charge First Service Installed | Additional Service Installed | USOC | |
|-----|-----------|-----------------|--|------------------------------------|-------|-----|
| (a) | Two-Wire | \$24.00 | \$- | \$- | T6E2X | (I) |
| (b) | Four-Wire | 48.00 | - | - | T6E4X | (I) |

B. Interoffice Channel

1. Mileage Bands

| | | Fixed Monthly Charge | Monthly Charge Per Mile | Nonrecurring Charge | USOC | |
|-----|-----------------|----------------------------|-------------------------------|------------------------|-------|-----|
| (a) | 0 miles | \$- | \$- | \$- | 1L5XX | |
| (b) | 1 thru 8 miles | 38.40 | 2.46 | - | 1L5XX | (I) |
| (c) | 9 thru 25 miles | 38.40 | 2.40 | - | 1L5XX | (I) |
| (d) | Over 25 miles | 38.40 | 2.34 | - | 1L5XX | (I) |

C. Optional Features and Functions

1. Telegraph Bridging

| | | Monthly Rate | Nonrecurring Charge | USOC | |
|-----|---------------------|-----------------|------------------------|-------|-----|
| (a) | Two-Wire, per port | \$3.60 | \$- | BCNT2 | (I) |
| (b) | Four-Wire, per port | 3.60 | - | BCNT4 | (I) |

Note 1: Telegraph Grade (a.k.a. BellSouth® SPA Telegraph) service is not available for additions, new installations or moves of service.

(T)

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ISSUED: April 8, 2003
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EFFECTIVE: May 8, 2003

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH® SPA) SERVICE

(T)

E7.5 Rates And Charges (Cont'd)**E7.5.3 Voice Grade (a.k.a. BellSouth® SPA DS0 VG) Service**

(T)

A. Local Channel

1. Per Point of Termination

a. Voice Grade (a.k.a. BellSouth® SPA DS0 VG)

(T)

(1) Voice

| | | Nonrecurring Charge | | | USOC | |
|-----|---|---------------------|-------------------------------|------------------------------------|-------|-----|
| | | Monthly Rate | First Service Installed | Additional Service Installed | | |
| (a) | Two-Wire | \$50.40 | \$330.00 | \$132.00 | T6E2X | (I) |
| (b) | Four-Wire | 79.20 | 336.00 | 138.00 | T6E4X | (I) |
| (2) | Data | | | | | |
| (a) | Two-Wire | 57.60 | 366.00 | 150.00 | T6E2X | (I) |
| (b) | Four-Wire | 86.40 | 372.00 | 162.00 | T6E4X | (I) |
| (3) | Loop Facilities Not Required ¹ | | | | | |
| (a) | Two-Wire | 17.28 | 168.00 | 97.20 | EUC2N | (I) |
| (b) | Four-Wire | 17.28 | 168.00 | 97.20 | EUC4N | (I) |

B. Interoffice Channel

1. Mileage Bands

| | | Fixed Monthly Charge | Monthly Charge Per Mile | Nonrecurring Charge | USOC | |
|-----|-----------------|----------------------------|-------------------------------|------------------------|-------|-----|
| | | \$- | \$- | \$- | 1L5XX | |
| (a) | 0 mile | | | | 1L5XX | (I) |
| (b) | 1 thru 8 miles | 50.40 | 3.24 | 126.00 | 1L5XX | (I) |
| (c) | 9 thru 25 miles | 50.40 | 3.24 | 126.00 | 1L5XX | (I) |
| (d) | Over 25 miles | 50.40 | 3.24 | 126.00 | 1L5XX | (I) |

C. Optional Features and Functions

1. Bridging

a. Voice Bridging

(1) Per port

| | | Monthly Rate | Nonrecurring Charge | USOC | |
|-----|-----------|-----------------|------------------------|-------|-----|
| | | | | | |
| (a) | Two-Wire | \$23.04 | \$50.40 | BCNV2 | (I) |
| (b) | Four-Wire | 25.92 | 50.40 | BCNV4 | (I) |

Note 1: For connections to equipment considered to be end-user premises.

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ISSUED: April 8, 2003
BY: President - Georgia
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EFFECTIVE: May 8, 2003

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH® SPA) SERVICE

(T)

E7.5 Rates And Charges (Cont'd)**E7.5.3 Voice Grade (a.k.a. BellSouth® SPA DS0 VG) Service (Cont'd)**

(T)

C. Optional Features and Functions (Cont'd)**1. Bridging (Cont'd)****b. Data Bridging****(1) Per port**

(a) Two-Wire

(b) Four-Wire

c. Telephoto Bridging**(1) Per port**

(a) Two-Wire

(b) Four-Wire

Monthly
Rate

Nonrecurring
Charge

USOC**\$36.00****\$54.00****BCND2**

(I)

36.00**54.00****BCND4**

(I)

23.04**50.40****BCNF2**

(I)

25.92**50.40****BCNF4**

(I)

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EFFECTIVE: May 8, 2003

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH® SPA) SERVICE

(T)

E7.5 Rates And Charges (Cont'd)**E7.5.3 Voice Grade (a.k.a. BellSouth® SPA DSO VG) Service (Cont'd)**

(T)

C. Optional Features and Functions (Cont'd)**2. Conditioning, Per Point of Termination**

| | | Monthly Rate | Nonrecurring Charge | | USOC | |
|----|---|-----------------|------------------------|------------|-------|-----|
| | | | Initial | Subsequent | | |
| | (a) C-Type | \$3.60 | \$18.00 | \$109.20 | X1CPT | (I) |
| | (b) Improved Attenuation Distortion | 102.00 | 98.40 | 204.00 | UHW | (I) |
| | (c) Improved Envelope Delay Distortion | 144.00 | 98.40 | 204.00 | UHY | (I) |
| | (d) Sealing Current | 1.20 | 49.20 | 132.00 | 1HBPT | (I) |
| 3. | Echo Control For Effective Two-Wire Service | | | | | |
| | (1) Per Point of Termination | | | | | |
| | (a) Improved Return Loss at the Two-Wire Point of Termination | 24.00 | 8.40 | 342.00 | 1RL2W | (I) |
| | (b) ELEPL2 at the Four-Wire Point of Termination | 24.00 | 7.20 | 342.00 | UHZ | (I) |
| 4. | Customer Specified Receive Level | | | | | |
| | (a) Per two-wire Point of Termination | 24.00 | 3.60 | 94.80 | RLS | (I) |
| 5. | D-Conditioning | | | | | |
| | (a) Per point of termination | 3.60 | 10.80 | 384.00 | XDCPT | (I) |
| 6. | Telephoto Conditioning | | | | | |
| | (a) Per Point of Termination | 3.60 | 3.60 | 336.00 | XTCPT | (I) |

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ISSUED: April 8, 2003
BY: President - Georgia
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EFFECTIVE: May 8, 2003

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH® SPA) SERVICE

(T)

E7.5 Rates And Charges (Cont'd)**E7.5.3 Voice Grade (a.k.a. BellSouth® SPA DS0 VG) Service (Cont'd)**

(T)

C. Optional Features and Functions (Cont'd)**7. Signaling Capability, per Local Channel**

| | | Monthly Rate | Nonrecurring Charge | | USOC | | |
|----------------------|------------------|--------------------------|------------------------|------------|----------|-------|-----|
| | | | Initial | Subsequent | | | |
| 8. | (a) | Loop ¹ | \$7.20 | \$22.80 | \$354.00 | XSS++ | (I) |
| | (b) | Single Frequency | 8.40 | 32.40 | 366.00 | XSSSF | (I) |
| | (c) | E&M ² | 12.00 | 34.80 | 366.00 | XSS++ | (I) |
| | (d) | Ground ³ | 7.20 | 14.40 | 348.00 | XSS++ | (I) |
| | (e) | Type C | 3.60 | 21.60 | 354.00 | XSSLC | (I) |
| | (f) | Other ⁴ | 7.20 | 26.40 | 360.00 | XSS++ | (I) |
| Improved Termination | | | | | | | |
| 9. | (a) | Per Point of Termination | 3.60 | 3.60 | 336.00 | UGD | (I) |
| | Simplex Reversal | | | | | | |
| | (a) | Per Point of Termination | - | 3.60 | 114.00 | UGJ | (I) |

Note 1: In lieu of ++ substitute LO or LS as appropriate.**Note 2:** In lieu of ++ substitute EA, EB, EC or CT as appropriate.**Note 3:** In lieu of ++ substitute GO or GS as appropriate.**Note 4:** In lieu of ++ substitute LA, LB, LR, RV, DX, DY, EX, AB or AC as appropriate.

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GEORGIA
ISSUED: April 8, 2003
BY: President - Georgia
Atlanta, Georgia

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Seventh Revised Page 38.1
Cancels Sixth Revised Page 38.1

EFFECTIVE: May 8, 2003

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH® SPA) SERVICE

(T)

E7.5 Rates And Charges (Cont'd)**E7.5.3 Voice Grade (a.k.a. BellSouth® SPA DS0 VG) Service (Cont'd)**

(T)

D. WATS Access Line (a.k.a. BellSouth® SPA WATS Line)

(T)

The following apply to a WATS Access Line (a.k.a. BellSouth® SPA WATS Line) used for interLATA only calling. Rates for all other WATS Access Lines (a.k.a. BellSouth® SPA WATS Line) (i.e., combined interLATA/intraLATA calling) are found in the Company's General Subscriber Service Tariff, Section A19.

(T)

1. Two-Wire/Four-Wire WATS Access Lines (a.k.a. BellSouth SPA WATS Line)

a. Local Channels

(1) Per Point of Termination

| | | Nonrecurring Charge | | | |
|-----|---------------------------------|---------------------|-------------------------|------------------------------|---------|
| | | Monthly | First Service Installed | Additional Service Installed | USOC |
| (a) | Per Two-Wire Line | <i>\$57.60</i> | <i>\$330.00</i> | <i>\$132.00</i> | X2W (I) |
| (b) | Per Two-Wire Line ¹ | <i>57.60</i> | <i>330.00</i> | <i>132.00</i> | X2L (I) |
| (c) | Per Four-Wire Line | <i>86.40</i> | <i>336.00</i> | <i>138.00</i> | X4W (I) |
| (d) | Per Four-Wire Line ¹ | <i>86.40</i> | <i>336.00</i> | <i>138.00</i> | X4L (I) |

Note 1: For use with Direct Inward Dial (DID) or DID/DOD Access service with BSA for use with Dedicated Access Lines described in E6.3.5.A. and provided in E6.8.3.A.6. of this Tariff.

BELLSOUTH
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GEORGIA
ISSUED: October 30, 2020
BY: President - Georgia
Atlanta, Georgia

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Eighth Revised Page 39
Cancels Seventh Revised Page 39

EFFECTIVE: December 1, 2020

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.3 Voice Grade (a.k.a. BellSouth SPA DS0 VG) Service (Cont'd)****D. WATS Access Lines (a.k.a. BellSouth SPA WATS Line)****2. Interoffice Channel****a. Mileage Bands****(1) Fixed Rate**

| | Fixed Monthly Charge | Monthly Charge Per Mile | Nonrecurring Charge | USOC |
|---------------------|-------------------------------------|--|--------------------------------|-------------|
| (a) 0 mile | \$- | \$- | \$- | 1LFFX |
| (b) 1 thru 8 miles | 50.40 | 3.24 | 126.00 | 1LFFX |
| (c) 9 thru 25 miles | 50.40 | 3.24 | 126.00 | 1LFFX |
| (d) Over 25 miles | 50.40 | 3.24 | 126.00 | 1LFFX |

3. Optional Features**a. Improved Two-Wire Voice Transmission Specifications****(1) For WATS Access Lines (a.k.a. BellSouth SPA WATS Line)**

| | Monthly Rate | Nonrecurring Charge | USOC |
|--|-------------------------|--|-------------|
| (a) Two-Wire | \$24.00 | Initial \$46.80 Subsequent \$105.60 | X2T |
| b. WATS Access Line (a.k.a. BellSouth SPA WATS Line) Bridging | | | |
| (1) Per port | | | |

| | Monthly Rate | Nonrecurring Charge | USOC |
|---------------|-------------------------|--------------------------------|-------------|
| (a) Two-Wire | \$16.00 | \$42.00 | BCNV2 |
| (b) Four-Wire | 18.00 | 42.00 | BCNV4 |

E7.5.4 Wired Music⁽¹⁾ Service

(N)

A. Local Channel**1. Per Point of Termination**

| | | Nonrecurring Charge | | | |
|-----|----------------|---------------------|-------------------------|------------------------------|-------|
| | | Monthly | First Service Installed | Additional Service Installed | USOC |
| (a) | 200 to 3500 Hz | \$42.00 | \$630.00 | \$276.00 | T6ECS |
| (b) | 100 to 5000 Hz | 54.00 | 732.00 | 360.00 | T6ECS |
| (c) | 50 to 8000 Hz | 60.00 | 750.00 | 378.00 | T6ECS |

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

(N)

(N)

BELLSOUTH
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GEORGIA
ISSUED: October 30, 2020
BY: President - Georgia
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Fifth Revised Page 40
Cancels Fourth Revised Page 40

EFFECTIVE: December 1, 2020

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.4 Wired Music⁽¹⁾ Service (Cont'd)**

(N)

B. Interoffice Channel⁽¹⁾

(N)

1. 200 to 3500 Hz

Mileage Bands

| | Fixed Monthly Charge | Monthly Charge Per Mile | Nonrecurring Charge | USOC |
|---------------------|-------------------------------------|--|--------------------------------|-------------|
| (a) 0 mile | \$- | \$- | \$- | 1L5XX |
| (b) 1 thru 8 miles | 38.40 | 2.46 | 103.20 | 1L5XX |
| (c) 9 thru 25 miles | 38.40 | 2.40 | 103.20 | 1L5XX |
| (d) Over 25 miles | 38.40 | 2.34 | 103.20 | 1L5XX |

2. 100 to 5000 Hz

Mileage Bands

| | | | | USOC |
|---------------------|-------|------|-------|-------------|
| (a) 0 mile | - | - | - | 1L5XX |
| (b) 1 thru 8 miles | 60.00 | 4.92 | 91.20 | 1L5XX |
| (c) 9 thru 25 miles | 60.00 | 4.80 | 91.20 | 1L5XX |
| (d) Over 25 miles | 60.00 | 4.68 | 91.20 | 1L5XX |

3. 50 to 8000 Hz

Mileage Bands

| | | | | USOC |
|---------------------|-------|------|-------|-------------|
| (a) 0 mile | - | - | - | 1L5XX |
| (b) 1 thru 8 miles | 84.00 | 7.38 | 91.20 | 1L5XX |
| (c) 9 thru 25 miles | 84.00 | 7.20 | 91.20 | 1L5XX |
| (d) Over 25 miles | 84.00 | 7.02 | 91.20 | 1L5XX |

C. Optional Features and Functions⁽¹⁾

(N)

1. Bridging, Distribution Amplifier

| | Monthly Rate | Nonrecurring Charge | USOC |
|--------------|-------------------------|--------------------------------|-------------|
| (a) Per port | \$2.40 | \$44.40 | BCNPT |

2. Gain Conditioning

| | Monthly Rate | Nonrecurring Charge | | USOC |
|-----------------|-------------------------|--------------------------------|-------------------|-------------|
| | | Initial | Subsequent | |
| (a) Per service | \$- | \$26.40 | \$66.00 | XGC |

⁽¹⁾ Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

(N)

(N)

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: April 8, 2019
BY: President - Georgia
Atlanta, Georgia

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Eighth Revised Page 41
Cancels Seventh Revised Page 41

EFFECTIVE: May 8, 2019

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.5 Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) Service****A. Local Channel**

1. Per Point of Termination

| | | Nonrecurring Charge | | Month To | 24 to 42 Months ¹ | 43 to 60 Months ¹ | USOC | (N) |
|-----|-----------|---------------------|----------|-------------|------------------------------------|------------------------------------|-------|-----|
| | | First | Add'l | Month | | | | |
| (a) | 2.4 Kbps | \$530.00 | \$320.00 | \$55.00 | \$49.00 | \$47.00 | T6ECS | |
| (b) | 4.8 Kbps | 530.00 | 320.00 | 55.00 | 49.00 | 47.00 | T6ECS | |
| (c) | 9.6 Kbps | 530.00 | 320.00 | 55.00 | 49.00 | 47.00 | T6ECS | |
| (d) | 19.2 Kbps | 530.00 | 320.00 | 55.00 | 49.00 | 47.00 | T6ECS | |
| (e) | 56.0 Kbps | 575.00 | 360.00 | 75.00 | 65.00 | 60.00 | T6ECS | |
| (f) | 64.0 Kbps | 615.00 | 400.00 | 75.00 | 65.00 | 60.00 | T6ECS | |

2. Hub Termination, per Local Channel

| | | | | | | | |
|-----|-----------|-------|-------|-------|-------|-------|-------|
| (a) | 2.4 Kbps | 29.00 | 26.00 | 11.00 | 9.75 | 9.50 | TUTA4 |
| (b) | 4.8 Kbps | 29.00 | 26.00 | 11.00 | 9.75 | 9.50 | TUTB4 |
| (c) | 9.6 Kbps | 29.00 | 26.00 | 11.00 | 9.75 | 9.50 | TUTC4 |
| (d) | 19.2 Kbps | 29.00 | 26.00 | 11.00 | 9.75 | 9.50 | TUTE4 |
| (e) | 56.0 Kbps | 29.00 | 26.00 | 30.00 | 28.00 | 26.00 | TUTD4 |
| (f) | 64.0 Kbps | 29.00 | 26.00 | 30.00 | 28.00 | 26.00 | TUTF4 |

B. Interoffice Channel

1. 2.4 Kbps

Mileage Bands

| | | Fixed Monthly Charge | Monthly Charge Per Mile | Nonrecurring Charge | USOC |
|-----|-----------------|----------------------------|-------------------------------|------------------------|-------|
| (a) | 0 mile | \$- | \$- | \$- | 1L5XX |
| (b) | 1 thru 8 miles | 20.00 | 2.05 | 64.00 | 1L5XX |
| (c) | 9 thru 25 miles | 20.00 | 2.00 | 64.00 | 1L5XX |
| (d) | Over 25 miles | 20.00 | 1.95 | 64.00 | 1L5XX |

Note 1: Effective May 8, 2019, Customers may not convert, renew or establish CSPPs for Digital Data Access Service.

(N)

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Third Revised Page 41.1
Cancels Second Revised Page 41.1

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(T)

E7.5 Rates And Charges (Cont'd)**E7.5.5 Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) Service (Cont'd)**

(T)

B. Interoffice Channel (Cont'd)**2. 4.8 Kbps****Mileage Bands**

| | | Fixed Monthly Charge | Monthly Charge Per Mile | Nonrecurring Charge | USOC |
|-----|-----------------|-------------------------------------|--|--------------------------------|-------------|
| (a) | 0 mile | \$- | \$- | \$- | 1L5XX |
| (b) | 1 thru 8 miles | 20.00 | 2.05 | 64.00 | 1L5XX |
| (c) | 9 thru 25 miles | 20.00 | 2.00 | 64.00 | 1L5XX |
| (d) | Over 25 miles | 20.00 | 1.95 | 64.00 | 1L5XX |

3. 9.6 Kbps**Mileage Bands**

| | | | | | |
|-----|-----------------|-------|------|-------|-------|
| (a) | 0 mile | - | - | - | 1L5XX |
| (b) | 1 thru 8 miles | 20.00 | 2.05 | 64.00 | 1L5XX |
| (c) | 9 thru 25 miles | 20.00 | 2.00 | 64.00 | 1L5XX |
| (d) | Over 25 miles | 20.00 | 1.95 | 64.00 | 1L5XX |

4. 19.2 Kbps**Mileage Bands**

| | | | | | |
|-----|-----------------|-------|------|-------|-------|
| (a) | 0 mile | - | - | - | 1L5XX |
| (b) | 1 thru 8 miles | 20.00 | 2.05 | 64.00 | 1L5XX |
| (c) | 9 thru 25 miles | 20.00 | 2.00 | 64.00 | 1L5XX |
| (d) | Over 25 miles | 20.00 | 1.95 | 64.00 | 1L5XX |

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: April 8, 2019
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Eighth Revised Page 42
Cancels Seventh Revised Page 42

EFFECTIVE: May 8, 2019

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.5 Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) Service (Cont'd)****B. Interoffice Channel (Cont'd)**

5. 56 Kbps

Mileage Bands

| | | Fixed Monthly Charge | Monthly Charge Per Mile | Nonrecurring Charge | USOC |
|-----|-----------------|-------------------------------------|--|--------------------------------|-------------|
| (a) | 0 mile | \$- | \$- | \$- | 1L5XX |
| (b) | 1 thru 8 miles | 40.00 | 4.10 | 64.00 | 1L5XX |
| (c) | 9 thru 25 miles | 40.00 | 4.00 | 64.00 | 1L5XX |
| (d) | Over 25 miles | 40.00 | 3.90 | 64.00 | 1L5XX |

6. 64.0 Kbps

Mileage Bands

| | | | | | |
|-----|-----------------|-------|------|-------|-------|
| (a) | 0 mile | - | - | - | 1L5XX |
| (b) | 1 thru 8 miles | 40.00 | 4.10 | 64.00 | 1L5XX |
| (c) | 9 thru 25 miles | 40.00 | 4.00 | 64.00 | 1L5XX |
| (d) | Over 25 miles | 40.00 | 3.90 | 64.00 | 1L5XX |

7. 2.4, 4.8, 9.6, or 19.2 Kbps (Contract Rates)

Mileage Bands

| | | Nonrecurring Charge Per Channel | Fixed 24 to 42 Months² | 43 to 60 Months² | Per Mile 24 to 42 Months² | 43 to 60 Months² | USOC | (N) |
|-----|-----------------|--|--|--|---|--|-------------|-----|
| (a) | 0 mile | \$- | \$- | \$- | \$- | \$- | 1L5XX | |
| (b) | 1 thru 8 miles | 64.00 | 19.50 | 19.00 | 1.90 | 1.75 | 1L5XX | |
| (c) | 9 thru 25 miles | 64.00 | 19.50 | 19.00 | 1.85 | 1.70 | 1L5XX | |
| (d) | Over 25 miles | 64.00 | 19.50 | 19.00 | 1.80 | 1.65 | 1L5XX | |

8. 56.0 or 64.0 Kbps (Contract Rates)

Mileage Bands

| | | | | | | | |
|-----|-----------------|-------|-------|-------|------|------|-------|
| (a) | 0 mile | - | - | - | - | - | 1L5XX |
| (b) | 1 thru 8 miles | 64.00 | 36.00 | 34.00 | 3.80 | 3.50 | 1L5XX |
| (c) | 9 thru 25 miles | 64.00 | 36.00 | 34.00 | 3.70 | 3.40 | 1L5XX |
| (d) | Over 25 miles | 64.00 | 36.00 | 34.00 | 3.60 | 3.30 | 1L5XX |

C. Optional Features, Functions and Charges1. Bridging¹

| | | Nonrecurring Charge | Month to Month | 24 to 42 Months | 43 to 60 Months | USOC |
|-----|----------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|-------------|
| (a) | Per port | \$13.00 | \$25.00 | \$24.00 | \$22.00 | BCNDA |

Note 1: This option is not available with 64.0 Kbps.

Note 2: Effective May 8, 2019, Customers may not convert, renew or establish CSPPs for Digital Data Access Service.

(N)

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: April 8, 2019
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Eighth Revised Page 42.1
Cancels Seventh Revised Page 42.1

EFFECTIVE: May 8, 2019

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.5 Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) Service (Cont'd)****C. Optional Features, Functions *and Charges* (Cont'd)**

2. Digital Data Secondary Channel
Capability, per Local Channel^{1,2}

| | | Nonrecurring Charge \$140.00 | Month to Month \$15.00 | 24 to 42 Months⁴ \$14.00 | 43 to 60 Months⁴ \$13.00 | USOC SFS | (N) |
|----|----------------------------------|---|---|--|--|---------------------|-----|
| 3. | (a) Each | | | | | | |
| 4. | Speed Change Charge ³ | | | | | | |
| | (a) Per Local Channel | | | Nonrecurring Charge First \$330.00 | Additional \$170.00 | USOC SCH | |

Note 1: This option is not available with 64.0 Kbps.

Note 2: Nonrecurring charge is applicable only if Secondary Channel Service is being added subsequent to the installation of basic service.

Note 3: Speed Change Charge is applicable where circuit out of service time during speed change activity is acceptable to customer.

Note 4: Effective May 8, 2019, Customers may not convert, renew or establish CSPPs for Digital Data Access Service.

(N)

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: April 8, 2019
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Eighth Revised Page 42.2
Cancels Seventh Revised Page 42.2

EFFECTIVE: May 8, 2019

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.6 High Capacity (a.k.a. BellSouth SPA High Capacity) Service****A. Local Channel****1. Monthly Rates Per Point of Termination**

| | | Monthly Rate | | | Nonrecurring Charge | | USOC |
|-----|--------------------------|------------------------|------------------------|------------------------|----------------------------|--|-------------|
| | | Rate Zone 1 | Rate Zone 2 | Rate Zone 3 | First | Additional | |
| (a) | 1.544 Mbps | \$130.00 | \$130.00 | \$130.00 | \$665.00 | \$315.00 | TMECS |
| | | | | | Nonrecurring Charge | | USOC |
| | | | | | Monthly Rate | First Service Installed | |
| (b) | 3.152 Mbps ¹ | | | | \$- | \$- | TWT++ |
| (c) | 6.312 Mbps ¹ | | | | - | - | TWT++ |
| (d) | 44.736 Mbps ¹ | | | | - | - | TWT++ |

2. Contract Rates Per Point Of Termination²

| | | Nonrecurring Charge | | USOC |
|-----|-------------------------------|--|--|--|
| | | First | Additional | |
| (a) | 1.544 Mbps | \$665.00 | \$315.00 | NA |
| | | Monthly Rate | | |
| | | 24 to 48 Months³ | 49 to 72 Months³ | 73 to 96 Months³ |
| (b) | (Obsoleted, See Section E107) | | | USOC |
| (c) | 1.544 Mbps - Rate Zone 1 | \$120.00 | \$118.00 | \$115.00 |
| (d) | (Obsoleted, See Section E107) | | | USOC |
| (e) | 1.544 Mbps - Rate Zone 2 | 120.00 | 118.00 | 115.00 |
| (f) | (Obsoleted, See Section E107) | | | USOC |
| (g) | 1.544 Mbps - Rate Zone 3 | 120.00 | 118.00 | 115.00 |

(N)

Note 1: ICB rates and charges apply.

Note 2: Contract lengths are flexible to allow customer choice of payment period per E2.4.9.

Note 3: Effective May 8, 2019, Customers may not: (1) Establish CSPPs greater than 36 months for High Capacity Service, and (N)
(2) Convert or renew CSPPs for High Capacity Service. (N)

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: April 8, 2019
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Tenth Revised Page 43
Cancels Ninth Revised Page 43

EFFECTIVE: May 8, 2019

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.6 High Capacity (a.k.a. BellSouth SPA High Capacity) Service (Cont'd)****B. Interoffice Channel**

1. 1.544 Mbps (Monthly Rates)

Mileage Bands

| | | Fixed Monthly Rate | | | Monthly Rate Per Mile | | | Nonrecurring Charge | |
|-----|-----------------|---------------------------|--------------------|--------------------|------------------------------|--------------------|--------------------|----------------------------|-------------|
| | | Rate Zone 1 | Rate Zone 2 | Rate Zone 3 | Rate Zone 1 | Rate Zone 2 | Rate Zone 3 | Per Channel | USOC |
| (a) | 0 mile | \$- | \$- | \$- | \$- | \$- | \$- | \$- | 1L5XX |
| (b) | 1 thru 8 miles | 90.00 | 90.00 | 90.00 | 25.50 | 25.50 | 25.50 | 265.00 | 1L5XX |
| (c) | 9 thru 25 miles | 90.00 | 90.00 | 90.00 | 23.50 | 23.50 | 23.50 | 265.00 | 1L5XX |
| (d) | Over 25 miles | 90.00 | 90.00 | 90.00 | 22.50 | 22.50 | 22.50 | 265.00 | 1L5XX |

2. 1.544 Mbps¹

a. Contract Rates

Mileage Bands

(1) Nonrecurring Charge (Per Channel)

| | | Nonrecurring Charge | USOC |
|-----|--------|----------------------------|-------------|
| (a) | 0 mile | \$- | NA |
| (b) | 1 mile | 265.00 | NA |

Mileage Bands

(2) Recurring Rate - 0 mile

| | | Nonrecurring Charge | Fixed Monthly Charge | 24 to 48 Months² | 49 to 72 Months² | 73 to 96 Months² | USOC | (N) |
|-----|----------------------------------|----------------------------|-----------------------------|------------------------------------|------------------------------------|------------------------------------|-------------|-----|
| (a) | Rate Zone 1, Per Mile | \$- | \$- | \$- | \$- | \$- | 1L5XX | |
| (b) | Rate Zone 2, Per Mile | - | - | - | - | - | 1L5XX | |
| (c) | Rate Zone 3, Per Mile | - | - | - | - | - | 1L5XX | |
| (3) | Recurring Rate - 1 thru 8 miles | | | | | | | |
| (a) | Rate Zone 1, Per Mile | - | 85.00 | 19.00 | 17.00 | 16.00 | 1L5XX | |
| (b) | Rate Zone 2, Per Mile | - | 85.00 | 19.00 | 17.00 | 16.00 | 1L5XX | |
| (c) | Rate Zone 3, Per Mile | - | 85.00 | 19.00 | 17.00 | 16.00 | 1L5XX | |
| (4) | Recurring Rate - 9 thru 25 miles | | | | | | | |
| (a) | Rate Zone 1, Per Mile | - | 85.00 | 18.00 | 16.00 | 15.00 | 1L5XX | |
| (b) | Rate Zone 2, Per Mile | - | 85.00 | 18.00 | 16.00 | 15.00 | 1L5XX | |
| (c) | Rate Zone 3, Per Mile | - | 85.00 | 18.00 | 16.00 | 15.00 | 1L5XX | |
| (5) | Recurring Rate - Over 25 miles | | | | | | | |
| (a) | Rate Zone 1, Per Mile | - | 85.00 | 17.00 | 15.00 | 13.00 | 1L5XX | |
| (b) | Rate Zone 2, Per Mile | - | 85.00 | 17.00 | 15.00 | 13.00 | 1L5XX | |
| (c) | Rate Zone 3, Per Mile | - | 85.00 | 17.00 | 15.00 | 13.00 | 1L5XX | |

Note 1: Contract lengths are flexible to allow customer choice of payment period per E2.4.9.

Note 3: Effective May 8, 2019, Customers may not: (1) Establish CSPPs greater than 36 months for High Capacity Service, and (N)
(2) Convert or renew CSPPs for High Capacity Service. (N)

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

First Revised Page 43.0.1
Cancels Original Page 43.0.1

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. *BELLSOUTH SPA*) SERVICE

(T)

E7.5 Rates And Charges (Cont'd)**E7.5.6 High Capacity (a.k.a. BellSouth SPA High Capacity) Service (Cont'd)**

(T)

B. Interoffice Channel (Cont'd)**3. 3.152 Mbps****Mileage Bands**

| | Fixed Monthly Charge | Monthly Charge Per Mile | Nonrecurring Charge | USOC |
|----------------------------------|-------------------------------------|--|--------------------------------|--------------|
| (a) 0 mile | \$- | \$- | \$- | 1LOXX |
| (b) 1 thru 8 miles ¹ | - | - | - | 1LOXX |
| (c) 9 thru 25 miles ¹ | - | - | - | 1LOXX |
| (d) Over 25 miles ¹ | - | - | - | 1LOXX |

Note 1: ICB rates and charges apply.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA

ACCESS SERVICES TARIFF

Third Revised Page 43.1
Cancels Second Revised Page 43.1

ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(T)

E7.5 Rates And Charges (Cont'd)**E7.5.6 High Capacity (a.k.a. BellSouth SPA High Capacity) Service (Cont'd)**

(T)

B. Interoffice Channel (Cont'd)

4. 6.312 Mbps

Mileage Bands

| | | Fixed Monthly Charge | Monthly Charge Per Mile | Nonrecurring Charge | USOC |
|-----|------------------------------|-------------------------------------|--|--------------------------------|--------------|
| (a) | 0 mile | \$- | \$- | \$- | 1LOXX |
| (b) | 1 thru 8 miles ¹ | - | - | - | 1LOXX |
| (c) | 9 thru 25 miles ¹ | - | - | - | 1LOXX |
| (d) | Over 25 miles ¹ | - | - | - | 1LOXX |

5. 44.736 Mbps

Mileage Bands

| | | | | | |
|-----|------------------------------|---|---|---|--------------|
| (a) | 0 mile | - | - | - | 1LOXX |
| (b) | 1 thru 8 miles ¹ | - | - | - | 1LOXX |
| (c) | 9 thru 25 miles ¹ | - | - | - | 1LOXX |
| (d) | Over 25 miles ¹ | - | - | - | 1LOXX |

Note 1: ICB rates and charges apply.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Sixth Revised Page 44
Cancels Fifth Revised Page 44

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(T)

E7.5 Rates And Charges (Cont'd)**E7.5.6 High Capacity (a.k.a. BellSouth SPA High Capacity) Service (Cont'd)**

(T)

C. Optional Features and Functions**1. Channelization****a. DS3 Channelization**

(T)

(1) DS3 to DS1

| | Monthly Rate | Nonrecurring Charge | USOC |
|----------------------------------|-------------------------|--------------------------------|--------------|
| (a) Per arrangement ¹ | \$- | \$- | MXB++ |

b. DS2 Channelization

(T)

(1) DS2 to DS1

| | | | |
|----------------------------------|---|---|--------------|
| (a) Per arrangement ¹ | - | - | MXD++ |
|----------------------------------|---|---|--------------|

c. DS1C Channelization

(T)

(1) DS1C to DS1

| | | | |
|----------------------------------|---|---|--------------|
| (a) Per arrangement ¹ | - | - | MXH++ |
|----------------------------------|---|---|--------------|

d. DS1 Channelization

(T)

(1) DS1 Basic Channelization System (DS1 to VG/DS0)

| | Monthly Rate | | | Nonrecurring Charge | USOC |
|----------------|------------------------|------------------------|------------------------|--------------------------------|-------------|
| | Rate Zone 1 | Rate Zone 2 | Rate Zone 3 | | |
| (a) Per system | \$210.00 | \$210.00 | \$210.00 | \$140.00 | MQ1 |

e. DS0 Channelization (DS0 to Subrate)

(T)

(1) DS0 Basic Channelization System (Per System)

| | Monthly Rate | Nonrecurring Charge | USOC |
|--------------------------------------|-------------------------|--------------------------------|--------------|
| (a) Maximum of 20, 2.4 Kbps services | \$120.00 | \$140.00 | QSU24 |
| (b) Maximum of 10, 4.8 Kbps services | 120.00 | 140.00 | QSU48 |
| (c) Maximum of 5, 9.6 bps services | 120.00 | 140.00 | QSU96 |

Note 1: ICB rates and charges apply.

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: October 30, 2020
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Fifteenth Revised Page 45
Cancels Fourteenth Revised Page 45

EFFECTIVE: December 1, 2020

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.6 High Capacity (a.k.a. BellSouth SPA High Capacity) Service (Cont'd)****C. Optional Features and Functions (Cont'd)****2. Channel Interfaces (Per Interface)****a. Sub-DS3 Interfaces****(1) DS1 Level Central Office Channel Interface¹**

| | Month to Month | 24 to 48 Months ² | 49 to 72 Months ² | 73 to 96 Months ² | Nonrecurring Charge | USOC |
|---|-------------------|---------------------------------|---------------------------------|---------------------------------|------------------------|-------|
| (a) Asynchronous | \$12.00 | \$8.00 | \$7.00 | \$6.00 | \$155.00 | 1D3CA |
| (b) Synchronous | 36.00 | 31.00 | 28.00 | 25.00 | 130.00 | 1D3CS |
| (2) DS1 Level Customer Channel Interface ¹ | | | | | | |
| (a) Asynchronous | 17.00 | 13.00 | 13.00 | 13.00 | 295.00 | 1D3DA |
| (b) Synchronous | 45.00 | 36.00 | 33.00 | 30.00 | 245.00 | 1D3DS |

b. Sub-DS1 Interfaces**(1) VG/DS0 Level Central Office Channel Interface**

| | Monthly Rate | Nonrecurring Charge First | Additional | USOC | |
|---|-----------------|---------------------------------|------------|-------|-----|
| (a) <i>BelSouth SWA</i> | \$0.00 | \$0.00 | \$0.00 | 1D1SW | |
| (b) Telegraph (<i>BellSouth SPA Telegraph</i>) | 5.00 | 7.00 | 6.00 | 1D1TE | |
| (c) Voice (<i>BellSouth SPA DS0 VG</i>) | 9.00 | 7.00 | 6.00 | 1D1VG | |
| (d) WATS Access Line (<i>BellSouth SPA WATS Line</i>) | 9.00 | 7.00 | 6.00 | 1D1WT | |
| (e) Wired Music ⁴ - Monthly | 37.00 | 7.00 | 6.00 | 1D1PA | (N) |
| (f) Wired Music ⁴ - Daily | 4.00 | 7.00 | 6.00 | 1D1PA | (N) |
| (g) DDAS (<i>BellSouth SPA DS0 Digital Data</i>) | 13.00 | 7.00 | 6.00 | 1D1DD | |

c. Sub-DS0 Interfaces**(1) Subrate Level Central Office Channel Interface**

| | | | | |
|-----------------------------------|-------|------|------|-------|
| (a) Subrate (2.4, 4.8 & 9.6 Kbps) | 13.00 | 7.00 | 6.00 | 1DOSR |
|-----------------------------------|-------|------|------|-------|

3. Reserved for future use.

Note 1: Contract rates are flexible to allow customer choice of payment period per E2.4.9.

Note 2: Effective May 8, 2019, Customers may not: (1) Establish CSPPs greater than 36 months for High Capacity Service, and (2) Convert or renew CSPPs for High Capacity Service.

Note 3: An additional Local Channel charge will apply whenever the spare line is provided as a leg to the customer premises.

Note 4: Effective December 1, 2020, this Service will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add, or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable month-to-month rates until the service is discontinued. AT&T currently plans to discontinue this Service on or after December 1, 2021.

(N)
|
(N)

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: April 13, 2005
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Fourth Revised Page 45.0.0.1
Cancels Third Revised Page 45.0.0.1

EFFECTIVE: May 13, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.6 High Capacity (a.k.a. BellSouth SPA High Capacity) Service (Cont'd)****C. Optional Features and Functions (Cont'd)**

4. Clear Channel Capability is furnished on a per DS1 service channel basis.
Per DS1/1.544 Mbps High Capacity Channel optioned as:

| | | Monthly | Charge | | Nonrecurring |
|-----|----------------------------------|---------|---------|------------|--------------|
| | | Rate | Initial | Subsequent | USOC |
| (a) | Superframe Format (SF) | \$- | \$- | \$600.00 | CCOSF |
| (b) | Extended Superframe Format (ESF) | - | - | 600.00 | CCOEF |

5. **(DELETED)**

(D)

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

First Revised Page 45.0.1
Cancels Original Page 45.0.1

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(T)

E7.5 Rates And Charges (Cont'd)**E7.5.7 Message Station Equipment Recovery Charge****A.** Message Station Equipment Recovery Charge

1. Per Special Access (*a.k.a. BellSouth SPA*) Surcharge Assessed

(T)

- (a) Each

**Monthly
Rate
\$4.42**

**USOC
UTM**

E7.5.8 Special Access (*a.k.a. BellSouth SPA*) Surcharge

(T)

A. Rates

1. Per Voice Grade Equivalent

- (a) Each

25.00**S25****E7.5.9 Reserved for Future Use**

BELLSOUTH
TELECOMMUNICATIONS
GEORGIA
ISSUED: October 10, 2014
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

Sixth Revised Page 45.1
Cancels Fifth Revised Page 45.1
EFFECTIVE: November 9, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.10 Reserved for Future Use****E7.5.11 Reserved for Future Use****E7.5.12 Reserved for Future Use****E7.5.13 Transfer of Service****A.** Service Rearrangements

1. Special Access (a.k.a. BellSouth SPA) Circuits

- (a) Per Billing Account Number
- (b) Per Circuit

| | |
|---------------------|--------------|
| Nonrecurring | USOC |
| Charge | NRBPA |
| \$140.00 | NRBPC |
| 7.00 | |

E7.5.14 Reserved for Future Use

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Seventh Revised Page 45.2
Cancels Sixth Revised Page 45.2

EFFECTIVE: May 8, 2019

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.14 (DELETED) (Cont'd)****E7.5.15 Derived Data Channel (a.k.a. BellSouth SPA Derived Data Channel) Service****A. Local Channel****1. Derived Data Channel (a.k.a. BellSouth SPA Derived Data Channel)**

| | Nonrecurring | Month to | 24 to 42 | 43 to 60 | USOC | (N) |
|-----------------------------|---------------------|---------------------|---------------------------|---------------------------|--------------|------------|
| | Charge | Month | Months¹ | Months¹ | DAXPC | |
| (a) Per channel at 2.4 Kbps | \$475.00 | \$17.00 | \$13.50 | \$11.00 | | |

Note 1: Effective May 8, 2019, Customers may not convert, renew or establish CSPPs for Derived Data Channel Service.

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EFFECTIVE: May 8, 2019

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.15 Derived Data Channel (a.k.a. BellSouth SPA Derived Data Channel) Service (Cont'd)****A. Local Channel (Cont'd)**

2. DS0-B Interface

| | Nonrecurring Charge | Month to Month | 24 to 42 Months ¹ | 43 to 60 Months ¹ | USOC DAXP1 | (N) |
|---|------------------------|----------------------|------------------------------------|------------------------------------|---------------|-----|
| (a) Per group of twenty channels at 2.4 Kbps each | \$335.00 | \$70.00 | \$65.00 | \$62.00 | | |

B. Interoffice Channel

1. Per group of twenty channels at 2.4 Kbps each

| | | | | | | |
|--------------|-------|-------|-------|-------|-------|--|
| (a) Fixed | 97.00 | 25.00 | 23.00 | 22.00 | DAXPF | |
| (b) Per mile | - | 2.05 | 1.90 | 1.75 | DAXPM | |

E7.5.16 BellSouth Customer Network Management Service**A. Basic *BellSouth Customer Network Management Service***

1. DS0 Channel Connections

| | Nonrecurring Charge | Month To Month | 24 to 48 Months ¹ | 49 to 72 Months ¹ | 73 to 96 Months ¹ | USOC | (N) |
|---------------------------------------|------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|-------|-----|
| (a) Voice Grade Type, per DS0 channel | \$35.00 | \$14.90 | \$13.70 | \$12.70 | \$11.90 | DSLVA | |
| (b) Digital Type, per DS0 channel | 35.00 | 8.50 | 7.80 | 7.25 | 6.80 | DSLDA | |

2. DS1 Channel Connections

| | | | | | | | |
|--|--------|--------|--------|-------|-------|-------|--|
| (a) DS0 Switching, per DS1 channel | 125.00 | 110.00 | 100.00 | 92.00 | 85.00 | DSL1A | |
| (b) DS1 Switching, per DS1 channel | 125.00 | 65.00 | 60.00 | 55.00 | 52.00 | DSL1B | |
| (c) Surveillance - DS1 Level per DS1 channel | 125.00 | 65.00 | 60.00 | 55.00 | 52.00 | DSL1S | |

3. DS3 Channel Connections

| | | | | | | | |
|---|--------|--------|--------|--------|--------|-------|--|
| (a) Surveillance - DS1 Level, per DS3 channel | 125.00 | 375.00 | 345.00 | 320.00 | 300.00 | DSL3S | |
| (b) Surveillance - DS3 Level, per DS3 channel | 125.00 | 150.00 | 138.00 | 128.00 | 120.00 | DSL3T | |

B. *BellSouth Customer Network Management Service* Options

1. Multipoint Bridging

| | | | | | | | |
|--|-------|------|------|------|------|-------|--|
| (a) Voice Grade Connections, per bridging leg | 20.00 | 5.00 | 4.50 | 4.40 | 4.30 | FSSFm | |
| (b) Multipoint Junction Unit, per 2.4, 4.8, 9.6 or 56 Kbps channel (must purchase in units of 5) | 15.00 | 6.00 | 5.25 | 5.00 | 4.75 | FSSFJ | |
| (c) Multipoint Junction Unit, per 19.2 Kbps channel (must purchase in units of 5) | 15.00 | 9.45 | 8.90 | 8.40 | 7.90 | FSSF9 | |

Note 1: Effective May 8, 2019, Customers may not convert, renew or establish CSPPs for Derived Data Channel Service and BellSouth Customer Network Management Service.

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Cancels Eighth Revised Page 45.4

EFFECTIVE: May 8, 2019

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates And Charges (Cont'd)****E7.5.16 BellSouth Customer Network Management Service (Cont'd)****B. BellSouth Customer Network Management Service Options (Cont'd)**

2. Subrate Reconfiguration Capability

| | | Nonrecurring Charge | | | | | USOC | (N) |
|-----|---|---------------------|----------------|------------------------------|------------------------------|------------------------------|-------|-----|
| | | \$45.00 | | | | | DSLSB | |
| | | Nonrecurring Charge | Month To Month | 24 to 48 Months ¹ | 49 to 72 Months ¹ | 73 to 96 Months ¹ | USOC | |
| (a) | Per DS0 equipped (DS0B) | | | | | | | |
| (b) | 9.6 Kbps, per DS0A requires 5 | \$5.00 | \$8.75 | \$8.15 | \$7.60 | \$7.20 | DSLS9 | |
| (c) | 4.8 Kbps, per DS0A requires 10 | 5.00 | 7.40 | 6.80 | 6.30 | 5.95 | DSLS4 | |
| (d) | 2.4 Kbps, per DS0A requires 20 | 5.00 | 7.00 | 6.45 | 5.95 | 5.60 | DSLS2 | |
| 3. | Additional Concurrent User Access | | | | | | | |
| (a) | Per Additional User Access | 125.00 | 68.00 | 60.00 | 57.00 | 54.00 | FSSFU | |
| 4. | Additional User Identification Codes | | | | | | | |
| | | Nonrecurring Charge | | | | | USOC | |
| | | \$3.00 | | | | | FSSFA | |
| 5. | Additional Customer Training | | | | | | | |
| (a) | Per eight hour day of training after initial installation | | | | 450.00 | | FSSFT | |
| 6. | Reconfiguration by Company Personnel | | | | | | | |
| (a) | Request for Company to perform reconfiguration activity | | | | 25.00 | | FSSRA | |

E7.5.17 SMARTPath Service (a.k.a. BellSouth SPA Shared Ring)**A. SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area Connection**

1. 1.544 Mbps

| | | Nonrecurring Charge | | Month to Month | Plan A 24 to 48 Months ¹ | Plan B 49 to 72 Months ¹ | USOC | (N) |
|-----|--|---------------------|----------|----------------|-------------------------------------|-------------------------------------|-------|-----|
| | | First | Add'l | Month | Months ¹ | Months ¹ | TMJ1A | |
| (a) | Per SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area Connection | \$430.00 | \$140.00 | \$510.00 | \$345.00 | \$330.00 | | |

B. SMARTPath service (a.k.a. BellSouth SPA Shared Ring) Area Junction

1. 1.544 Mbps

| | | | | | | | |
|-----|------------------------------------|--------|--------|--------|--------|-------|-------|
| (a) | Per Customer Designated Premises | 430.00 | 140.00 | 160.00 | 110.00 | 90.00 | TMJ1B |
| (b) | Per Serving Wire Center Connection | 430.00 | 140.00 | 75.00 | 45.00 | 30.00 | TMJ1C |

C. Virtual Collocation Cross-Connect to SMARTPath service (a.k.a. BellSouth SPA Shared Ring)

1. Area Connection and Area Junction

| | | Nonrecurring Charge | | Monthly Rate | USOC |
|-----|-----------------------|---------------------|------------|--------------|-------|
| | | First | Additional | | CNCIX |
| (a) | Per DS1 Cross-Connect | \$155.00 | \$14.00 | \$7.50 | |

Note 1: Effective May 8, 2019, Customers may not convert, renew or establish CSPPs for BellSouth Customer Network Management Service and may not convert or renew CSPPs for SMARTPath Service, and may not establish CSPPs longer than 36 months for SMARTPath Service.

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First Revised Page 45.4.1
Cancels Original Page 45.4.1

EFFECTIVE: October 30, 2003

E7. DEDICATED ACCESS SERVICES**E7.5 Rates and Charges (Cont'd)****E7.5.18 SmartRing® service (a.k.a. BellSouth Dedicated Ring)****A. Self-healing Multi-nodal Alternate Route Topology Ring - Month-to-Month****1. Local Channel (All capacities except OC-1)**

| | Month-to-Month | Nonrecurring Charge | USOC | |
|---|-----------------------|----------------------------|--------------|-----|
| (a) Per Local Channel | - | \$405.00 | 1HVXX | |
| (b) Per Quarter Air Mile | \$95.00 | - | 1HVXX | |
| 2. Alternate Central Office (All capacities except OC-1) | | | | |
| (a) Per Alternate C.O. Channel | - | 470.00 | 1HAXX | |
| (b) Per Quarter Air Mile | 1,500.00 | - | 1HAXX | |
| 3. Interoffice Channel (All capacities except OC-1) | | | | |
| (a) Per Channel, <i>except OC-192 and OC-192+ Capacity</i> | - | 160.00 | 1HXFX | (C) |
| (b) Fixed, OC-3 Capacity | 50.00 | - | 1HXFX | |
| (c) Fixed, OC-3+, OC-12, OC-48 or OC-48+ Capacity | 175.00 | - | 1HXFX | |
| (d) Fixed, OC-192 or OC-192+ Capacity | 600.00 | 300.00 | 1HXFX | (N) |
| (e) Per Quarter Air Mile, OC-3 Capacity | 45.00 | - | 1HXFX | (T) |
| (f) Per Quarter Air Mile, OC-3+, OC-12, OC-48 or OC-48+ Capacity | 55.00 | - | 1HXFX | (T) |
| (g) Per Quarter Air Mile, OC-192 or OC-192+ Capacity | 55.00 | - | 1HXFX | (N) |
| 4. Internodal Channel (All capacities except OC-1) | | | | |
| (a) Per Internodal Channel, Same Wire Center Area, Per Quarter Air Mile | 3,000.00 | 430.00 | 1HNXX | |
| (b) Per Internodal Channel, Same Office Park/Campus Environment in Contiguous Serving Wire Center Areas, Per Quarter Air Mile | 3,500.00 | 430.00 | 1HNZX | |

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Second Revised Page 45.4.1.1
Cancels First Revised Page 45.4.1.1

EFFECTIVE: February 16, 2007

E7. DEDICATED ACCESS SERVICES**E7.5 Rates and Charges (Cont'd)****E7.5.18 SmartRing service (a.k.a. BellSouth Dedicated Ring) (Cont'd)**

(T)

A. Self-healing Multi-nodal Alternate Route Topology Ring - Month-to-Month (Cont'd)**5. Customer Node (Per Customer Node)**

| | Month-to-Month | Nonrecurring Charge | USOC |
|----------------------|-----------------------|----------------------------|-------------|
| (a) OC-1 Capacity | \$800.00 | \$425.00 | SHNC4 |
| (b) OC-3 Capacity | 2,200.00 | 490.00 | SHNC3 |
| (c) OC-3+ Capacity | 3,000.00 | 490.00 | SHNN5 |
| (d) OC-12 Capacity | 3,400.00 | 485.00 | SHNC1 |
| (e) OC-48 Capacity | 5,800.00 | 485.00 | SHNN8 |
| (f) OC-48+ Capacity | 6,500.00 | 485.00 | SHNN9 |
| (g) OC-192 Capacity | 25,000.00 | 640.00 | SHNN6 |
| (h) OC-192+ Capacity | 25,000.00 | 640.00 | SHNN2 |

6. Customer Channel Interface (Per Customer Node)

| | | | |
|--|----------|--------|-------|
| (a) Per DS1 | 35.00 | 235.00 | SHNBB |
| (b) Per DS3 | 170.00 | 105.00 | SHNZT |
| (c) Per STS-1 | 220.00 | 105.00 | SHN13 |
| (d) Per OC-1 | 100.00 | 115.00 | SHN1C |
| (e) Per OC-3, 2-Fiber | 240.00 | 110.00 | SHN1D |
| (f) Per OC-3, 4-Fiber | 475.00 | 110.00 | SHN15 |
| (g) Per OC-12, 2-Fiber | 715.00 | 115.00 | SHN1F |
| (h) Per OC-12, 4-Fiber | 1,430.00 | 115.00 | SHN19 |
| (i) Per OC-48, 2-Fiber | 1,600.00 | 640.00 | SHN1A |
| (j) Per OC-48, 4-Fiber | 3,200.00 | 640.00 | SHN1B |
| (k) Per 1000 Mbps | 740.00 | 540.00 | SHN1K |
| (l) Per 100 Mbps (1 STS-1) BellSouth Metro Ethernet Backbone | 850.00 | 500.00 | SHN1J |
| (m) Per 100 Mbps (3 STS-1) BellSouth Metro Ethernet Backbone | 850.00 | 540.00 | SHN33 |
| (n) Per 1000 Mbps BellSouth Metro Ethernet Backbone | 850.00 | 740.00 | SHN34 |
| (o) Per Fractional 1000 Mbps Metro Ethernet Backbone | | | |
| - 150 Mbps (3 STS-1) | 560.00 | 850.00 | SHN35 |
| - 300 Mbps (6 STS-1) | 600.00 | 850.00 | SHN36 |
| - 450 Mbps (9 STS-1) | 640.00 | 850.00 | SHN37 |
| - 600 Mbps (12 STS-1) | 700.00 | 850.00 | SHN38 |

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(N)

7. Central Office Node (Per Central Office Node)

| | | | |
|--|-----------|--------|-------|
| (a) OC-1 Capacity | 600.00 | 415.00 | SHNH4 |
| (b) OC-3 Capacity | 1,400.00 | 490.00 | SHNH3 |
| (c) OC-3+ Capacity | 2,500.00 | 490.00 | SHNH5 |
| (d) OC-12 Capacity | 2,600.00 | 485.00 | SHNH1 |
| (e) OC-48 Capacity | 5,400.00 | 485.00 | SHNH8 |
| (f) OC-48+ Capacity | 6,100.00 | 485.00 | SHNH9 |
| (g) OC-192 Capacity | 25,000.00 | 640.00 | SHNH7 |
| (h) OC-192+ Capacity | 25,000.00 | 640.00 | SHNH6 |
| (i) OC-3 Shared Node Interconnection | 980.00 | 550.00 | SHNHE |
| (j) OC-12 Shared Node Interconnection | 1,820.00 | 550.00 | SHNHE |
| (k) OC-48 Shared Node Interconnection | 3,400.00 | 550.00 | SHNHE |
| (l) OC-48+ Shared Node Interconnection | 3,840.00 | 550.00 | SHNHE |

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Third Revised Page 45.4.2
Cancels Second Revised Page 45.4.2

EFFECTIVE: February 16, 2007

E7. DEDICATED ACCESS SERVICES**E7.5 Rates and Charges (Cont'd)****E7.5.18 SmartRing service (a.k.a. BellSouth Dedicated Ring) (Cont'd)**

(T)

A. Self-healing Multi-nodal Alternate Route Topology Ring - Month-to-Month (Cont'd)**8. Central Office Channel Interface (Per Central Office Node)**

| | Month-to-Month | Nonrecurring Charge | USOC | |
|--|-----------------------|----------------------------|-------------|-----|
| (a) Per DS1 | \$35.00 | \$98.00 | SHNCB | |
| (b) Per DS3 | 115.00 | 150.00 | SHNYT | |
| (c) Per STS-1 | 150.00 | 155.00 | SHNO2 | |
| (d) Per OC-1 | 100.00 | 170.00 | SHNCC | |
| (e) Per OC-3, 2-Fiber | 240.00 | 99.00 | SHNCD | |
| (f) Per OC-3, 4-Fiber | 425.00 | 99.00 | SHNO4 | |
| (g) Per OC-12, 2-Fiber | 640.00 | 99.00 | SHNCF | |
| (h) Per OC-12, 4-Fiber | 1,280.00 | 99.00 | SHNC9 | |
| (i) Per OC-48, 2-Fiber | 1,600.00 | 640.00 | SHNCJ | |
| (j) Per OC-48, 4-Fiber | 3,200.00 | 640.00 | SHNCK | |
| (k) Per 28 DS1 Channel System - DS3 | 650.00 | 130.00 | SHNW8 | |
| (l) Per 28 DS1 Channel System - STS-1 | 750.00 | 130.00 | SHNCS | |
| (m) Per DS1 on 28 DS1 Channel System - DS3 | 12.00 | 125.00 | SHNCA | |
| (n) Per DS1 on 28 DS1 Channel System - STS-1 | 40.00 | 81.00 | SHNCG | |
| (o) Per 1000 Mbps | 740.00 | 400.00 | SHNCW | |
| (p) Per 100 Mbps (1 STS-1) BellSouth Metro Ethernet Backbone | 800.00 | 500.00 | SHNOJ | (N) |
| (q) Per 100 Mbps (3 STS-1) BellSouth Metro Ethernet Backbone | 800.00 | 540.00 | SHNCX | (N) |
| (r) Per 1000 Mbps BellSouth Metro Ethernet Backbone | 800.00 | 740.00 | SHNC5 | (N) |
| (s) Per Fractional 1000 Mbps Metro Ethernet Backbone | | | | (N) |
| - 150 Mbps (3 STS-1) | 560.00 | 850.00 | SHND5 | (N) |
| - 300 Mbps (6 STS-1) | 600.00 | 850.00 | SHND6 | (N) |
| - 450 Mbps (9 STS-1) | 640.00 | 850.00 | SHND7 | (N) |
| - 600 Mbps (12 STS-1) | 700.00 | 850.00 | SHND8 | (N) |

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ISSUED: September 29, 2003
BY: President - Georgia
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EFFECTIVE: October 30, 2003

E7. DEDICATED ACCESS SERVICES**E7.5 Rates and Charges (Cont'd)****E7.5.18 SmartRing[®] service (a.k.a BellSouth Dedicated Ring) (Cont'd)****B. Self-healing Multi-nodal Alternate Route Topology Ring - Transport Payment Plan**

(M)

1. Local Channel (All capacities except OC-1)

(M)

| | | Per Month Rates | | | |
|-----|---|-----------------|----------|----------|--------|
| | | A | B | C | |
| | | 12-36 | 37-60 | 61-96 | USOC |
| | | Months | Months | Months | |
| (a) | Per Quarter Air Mile | \$85.00 | \$75.00 | \$70.00 | 1HVXX |
| | | | | | (M) |
| 2. | Alternate Central Office (All capacities except OC-1) | | | | |
| | | | | | (M) |
| (a) | Per Quarter Air Mile | 400.00 | 250.00 | 200.00 | 1HAXX |
| | | | | | (M) |
| 3. | Interoffice Channel (All capacities except OC-1) | | | | |
| | | | | | (M) |
| (a) | Fixed, OC-3 Capacity | 40.00 | 35.00 | 30.00 | 1HXFX |
| | | | | | (M) |
| (b) | Fixed, OC-3+, OC-12, OC-48 or OC-48+ Capacity | 155.00 | 140.00 | 130.00 | 1HXFX |
| | | | | | (M) |
| (c) | Fixed, OC-192 or OC-192+ Capacity | 450.00 | 400.00 | 380.00 | 1HXFX |
| | | | | | (N) |
| (d) | Per Quarter Air Mile, OC-3 Capacity | 35.00 | 25.00 | 20.00 | 1HXFX |
| | | | | | (T)(M) |
| (e) | Per Quarter Air Mile, OC-3+, OC-12, OC-48 or OC-48+ Capacity | 40.00 | 33.00 | 25.00 | 1HXFX |
| | | | | | (T)(M) |
| (f) | Per Quarter Air Mile, OC-192 or OC-192+ Capacity | 40.00 | 33.00 | 25.00 | 1HXFX |
| | | | | | (N) |
| 4. | Internodal Channel (All capacities except OC-1) | | | | |
| | | | | | (M) |
| (a) | Per Internodal Channel, Same Wire Center Area, Per Quarter Air Mile | 690.00 | 415.00 | 345.00 | 1HNXX |
| | | | | | (M) |
| (b) | Per Internodal Channel, Same Office Park/Campus Environment in Contiguous Serving Wire Center Areas, Per Quarter Air Mile | 780.00 | 465.00 | 390.00 | 1HNZX |
| | | | | | (M) |
| 5. | Customer Node (Per Customer Node) | | | | |
| | | | | | (M) |
| (a) | OC-1 Capacity | 400.00 | 350.00 | 300.00 | SHNC4 |
| | | | | | (M) |
| (b) | OC-3 Capacity | 1,100.00 | 1,000.00 | 900.00 | SHNC3 |
| | | | | | (M) |
| (c) | OC-3+ Capacity | 2,050.00 | 1,750.00 | 1,500.00 | SHNN5 |
| | | | | | (M) |
| (d) | OC-12 Capacity | 2,200.00 | 2,000.00 | 1,750.00 | SHNC1 |
| | | | | | (M) |
| (e) | OC-48 Capacity | 4,900.00 | 4,500.00 | 3,900.00 | SHNN8 |
| | | | | | (M) |
| (f) | OC-48+ Capacity | 4,900.00 | 4,500.00 | 3,900.00 | SHNN9 |
| | | | | | (M) |
| (g) | OC-192 Capacity | 9,375.00 | 8,250.00 | 7,300.00 | SHNN6 |
| | | | | | (N) |
| (h) | OC-192+ Capacity | 9,375.00 | 8,250.00 | 7,300.00 | SHNN2 |
| | | | | | (N) |

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ISSUED: January 17, 2007
BY: President - Georgia
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EFFECTIVE: February 16, 2007

E7. DEDICATED ACCESS SERVICES**E7.5 Rates and Charges (Cont'd)****E7.5.18 SmartRing service (a.k.a BellSouth Dedicated Ring) (Cont'd)****B. Self-healing Multi-nodal Alternate Route Topology Ring - Transport Payment Plan (Cont'd)****6. Customer Channel Interface (Per Customer Node)**

| | | Per Month Rates | | | USOC |
|-----|---|-----------------|----------|----------|-----------|
| | | A | B | C | |
| | | 12-36 | 37-60 | 61-96 | |
| | | Months | Months | Months | |
| (a) | Per DS1 | \$34.00 | \$27.00 | \$21.00 | SHNBB |
| (b) | Per DS3 | 135.00 | 130.00 | 125.00 | SHNZT |
| (c) | Per STS-1 | 170.00 | 150.00 | 140.00 | SHN13 |
| (d) | Per OC-1 | 90.00 | 80.00 | 75.00 | SHN1C |
| (e) | Per OC-3, 2-Fiber | 190.00 | 175.00 | 160.00 | SHN1D |
| (f) | Per OC-3, 4-Fiber | 380.00 | 350.00 | 320.00 | SHN15 |
| (g) | Per OC-12, 2-Fiber | 570.00 | 525.00 | 480.00 | SHN1F |
| (h) | Per OC-12, 4-Fiber | 1,140.00 | 1,050.00 | 960.00 | SHN19 |
| (i) | Per OC-48, 2-Fiber | 1,325.00 | 1,215.00 | 1,050.00 | SHN1A |
| (j) | Per OC-48, 4-Fiber | 2,650.00 | 2,430.00 | 2,100.00 | SHN1B |
| (k) | Per 1000 Mbps | 520.00 | 475.00 | 425.00 | SHN1K |
| (l) | Per 100 Mbps (1 STS-1) BellSouth Metro Ethernet Backbone | 175.00 | 155.00 | 140.00 | SHN1J |
| (m) | Per 100 Mbps (3 STS-1) BellSouth Metro Ethernet Backbone | 210.00 | 190.00 | 170.00 | SHN33 |
| (n) | Per 1000 Mbps BellSouth Metro Ethernet Backbone | 520.00 | 475.00 | 425.00 | SHN34 |
| (o) | Per Fractional 1000 Mbps Metro Ethernet Backbone | | | | (N) |
| | - 150 Mbps (3 STS-1) | 230.00 | 210.00 | 190.00 | SHN35 (N) |
| | - 300 Mbps (6 STS-1) | 300.00 | 280.00 | 260.00 | SHN36 (N) |
| | - 450 Mbps (9 STS-1) | 340.00 | 310.00 | 290.00 | SHN37 (N) |
| | - 600 Mbps (12 STS-1) | 380.00 | 340.00 | 320.00 | SHN38 (N) |

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First Revised Page 45.4.3.1
Cancels Original Page 45.4.3.1

EFFECTIVE: February 16, 2007

E7. DEDICATED ACCESS SERVICES**E7.5 Rates and Charges (Cont'd)****E7.5.18 SmartRing service (a.k.a BellSouth Dedicated Ring) (Cont'd)****B. Self-healing Multi-nodal Alternate Route Topology Ring - Transport Payment Plan (Cont'd)****7. Central Office Node (Per Central Office Node)**

| | | Per Month Rates | | | USOC |
|--|---|-----------------|----------|----------|-----------|
| | | A | B | C | |
| | | 12-36 | 37-60 | 61-96 | |
| | | Months | Months | Months | |
| (a) | OC-1 Capacity | 400.00 | 350.00 | 300.00 | SHNH4 |
| (b) | OC-3 Capacity | 1,100.00 | 1,000.00 | 900.00 | SHNH3 |
| (c) | OC-3+ Capacity | 2,050.00 | 1,750.00 | 1,500.00 | SHNH5 |
| (d) | OC-12 Capacity | 2,200.00 | 2,000.00 | 1,750.00 | SHNH1 |
| (e) | OC-48 Capacity | 4,900.00 | 4,500.00 | 3,900.00 | SHNH8 |
| (f) | OC-48+ Capacity | 4,900.00 | 4,500.00 | 3,900.00 | SHNH9 |
| (g) | OC-192 Capacity | 9,375.00 | 8,250.00 | 7,300.00 | SHNH7 |
| (h) | OC-192+ Capacity | 9,375.00 | 8,250.00 | 7,300.00 | SHNH6 |
| (i) | OC-3 Shared Node Interconnection | 690.00 | 630.00 | 570.00 | SHNHE (N) |
| (j) | OC-12 Shared Node Interconnection | 1,390.00 | 1,260.00 | 1,100.00 | SHNHE (N) |
| (k) | OC-48 Shared Node Interconnection | 2,880.00 | 2,840.00 | 2,460.00 | SHNHE (N) |
| (l) | OC-48+ Shared Node Interconnection | 2,880.00 | 2,840.00 | 2,460.00 | SHNHE (N) |
| 8. Central Office Channel Interface (Per Central Office Node) | | | | | |
| (a) | Per DS1 | 30.00 | 25.00 | 20.00 | SHNCB |
| (b) | Per DS3 | 85.00 | 80.00 | 75.00 | SHNYT |
| (c) | Per STS-1 | 105.00 | 100.00 | 90.00 | SHNO2 |
| (d) | Per OC-1 | 90.00 | 80.00 | 75.00 | SHNCC |
| (e) | Per OC-3, 2-Fiber | 190.00 | 175.00 | 160.00 | SHNCD |
| (f) | Per OC-3, 4-Fiber | 330.00 | 300.00 | 270.00 | SHNO4 |
| (g) | Per OC-12, 2-Fiber | 495.00 | 450.00 | 405.00 | SHNCF |
| (h) | Per OC-12, 4-Fiber | 990.00 | 900.00 | 810.00 | SHNC9 |
| (i) | Per OC-48, 2-Fiber | 1,325.00 | 1,215.00 | 1,050.00 | SHNCJ |
| (j) | Per OC-48, 4-Fiber | 2,650.00 | 2,430.00 | 2,100.00 | SHNCK |
| (k) | Per 28 DS1 Channel System - DS3 | 550.00 | 500.00 | 450.00 | SHNW8 |
| (l) | Per 28 DS1 Channel System - STS-1 | 650.00 | 600.00 | 575.00 | SHNCS |
| (m) | Per DS1 on 28 DS1 Channel System - DS3 | 12.00 | 9.00 | 7.00 | SHNCA |
| (n) | Per DS1 on 28 DS1 Channel System - STS-1 | 35.00 | 30.00 | 25.00 | SHNCG |
| (o) | Per 1000 Mbps | 520.00 | 475.00 | 425.00 | SHNCW |
| (p) | Per 100 Mbps (1 STS-1) BellSouth Metro Ethernet Backbone | 175.00 | 155.00 | 140.00 | SHNOJ |
| (q) | Per 100 Mbps (3 STS-1) BellSouth Metro Ethernet Backbone | 210.00 | 190.00 | 170.00 | SHNCX |
| (r) | Per 1000 Mbps BellSouth Metro Ethernet Backbone | 520.00 | 475.00 | 425.00 | SHNC5 |
| (s) | Per Fractional 1000 Mbps Metro Ethernet Backbone | | | | (N) |
| | - 150 Mbps (3 STS-1) | 230.00 | 210.00 | 190.00 | SHND5 (N) |
| | - 300 Mbps (6 STS-1) | 300.00 | 280.00 | 260.00 | SHND6 (N) |
| | - 450 Mbps (9 STS-1) | 340.00 | 310.00 | 290.00 | SHND7 (N) |
| | - 600 Mbps (12 STS-1) | 380.00 | 340.00 | 320.00 | SHND8 (N) |

C. Self-healing Multi-nodal Alternate Route Topology Ring**1. Channel Interface Reallocation**

| | Nonrecurring Charge | USOC |
|------------------------------|------------------------|-------|
| (a) Per Node, Per Occurrence | \$245.00 | SHRBC |

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Third Revised Page 45.4.4
Cancels Second Revised Page 45.4.4

EFFECTIVE: November 9, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.5 Rates and Charges (Cont'd)

E7.5.19 Reserved for Future Use

(T)

(D)

(D)

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Third Revised Page 45.4.5
Cancels Second Revised Page 45.4.5

ISSUED: June 4, 2014
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: July 4, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.20 Reserved For Future Use****E7.5.21 Reserved For Future Use****E7.5.22 BellSouth Metro Ethernet Service****A. Rates and charges for month-to-month service****1. Basic BellSouth Metro Ethernet Service Arrangements****(a) 2 Mbps Basic Connection**

- Per Connection

| Nonrecurring Charge | Month to Month | USOC |
|---------------------|----------------|-------|
| \$ 950.00 | \$ 495.00 | MTEBO |

(b) 4 Mbps Basic Connection

- Per Connection

| | | |
|--------|--------|-------|
| 950.00 | 515.00 | MTEB1 |
|--------|--------|-------|

(c) 8 Mbps Basic Connection

- Per Connection

| | | |
|--------|--------|-------|
| 950.00 | 600.00 | MTEB2 |
|--------|--------|-------|

(d) 10 Mbps Basic Connection

- Per Connection

| | | |
|--------|--------|-------|
| 900.00 | 680.00 | MTEBA |
|--------|--------|-------|

(e) 100 Mbps Basic Connection

- Per Connection

| | | |
|--------|----------|-------|
| 900.00 | 1,310.00 | MTEBB |
|--------|----------|-------|

(f) 1 Gbps Basic Connection

- Per Connection

| | | |
|----------|----------|-------|
| 1,000.00 | 2,850.00 | MTEBC |
|----------|----------|-------|

2. Premium BellSouth Metro Ethernet Service Arrangements**(a) 2 Mbps Premium Connection**

- Per Connection, Fixed Mode

| | | |
|--------|--------|-------|
| 950.00 | 548.00 | MTEPO |
|--------|--------|-------|

(b) 4 Mbps Premium Connection

- Per Connection, Fixed Mode

| | | |
|--------|--------|-------|
| 950.00 | 576.00 | MTEP1 |
|--------|--------|-------|

(c) 8 Mbps Premium Connection

- Per Connection, Fixed Mode

| | | |
|--------|--------|-------|
| 950.00 | 664.00 | MTEP2 |
|--------|--------|-------|

(d) 10 Mbps Premium Connection

- Per Connection, Fixed Mode

| | | |
|--------|--------|-------|
| 900.00 | 904.00 | MTEP3 |
|--------|--------|-------|

- Per Connection, Burst Mode

| | | |
|--------|----------|-------|
| 900.00 | 1,133.00 | MTEE3 |
|--------|----------|-------|

(e) 20 Mbps Premium Connection

- Per Connection, Fixed Mode

| | | |
|--------|----------|-------|
| 900.00 | 1,128.00 | MTEP4 |
|--------|----------|-------|

- Per Connection, Burst Mode

| | | |
|--------|----------|-------|
| 900.00 | 1,268.00 | MTEE4 |
|--------|----------|-------|

(f) 50 Mbps Premium Connection

- Per Connection, Fixed Mode

| | | |
|--------|----------|-------|
| 900.00 | 1,488.00 | MTEP5 |
|--------|----------|-------|

- Per Connection, Burst Mode

| | | |
|--------|----------|-------|
| 900.00 | 1,545.00 | MTEE5 |
|--------|----------|-------|

(g) 100 Mbps Premium Connection

- Per Connection, Fixed Mode

| | | |
|----------|----------|-------|
| 1,000.00 | 1,800.00 | MTEP6 |
|----------|----------|-------|

- Per Connection, Burst Mode

| | | |
|----------|----------|-------|
| 1,000.00 | 2,018.00 | MTEE6 |
|----------|----------|-------|

(h) 250 Mbps Premium Connection

- Per Connection, Fixed Mode

| | | |
|----------|----------|-------|
| 1,000.00 | 2,248.00 | MTEP7 |
|----------|----------|-------|

- Per Connection, Burst Mode

| | | |
|----------|----------|-------|
| 1,000.00 | 2,415.00 | MTEE7 |
|----------|----------|-------|

(i) 500 Mbps Premium Connection

- Per Connection, Fixed Mode

| | | |
|----------|----------|-------|
| 1,000.00 | 2,992.00 | MTEP8 |
|----------|----------|-------|

- Per Connection, Burst Mode

| | | |
|----------|----------|-------|
| 1,000.00 | 3,098.00 | MTEE8 |
|----------|----------|-------|

(j) 900 Mbps Premium Connection

- Per Connection, Fixed Mode

| | | |
|----------|----------|-------|
| 1,500.00 | 4,436.00 | MTEP9 |
|----------|----------|-------|

3.

(D)

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(D)

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Second Revised Page 45.4.5.1
Cancels First Revised Page 45.4.5.1

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****A. Rates and charges for month-to-month service (Cont'd)****4. Virtual BellSouth Metro Ethernet Service Arrangements¹****(a) 2 Mbps Virtual Connection**

| | Nonrecurring Charge \$ | Month to Month \$ | USOC MTEVO |
|---------------------------------|---------------------------------------|--------------------------------------|-----------------------|
| - Per Connection | 1,000.00 | 388.00 | |
| (b) 4 Mbps Virtual Connection | | | |
| - Per Connection | 1,000.00 | 416.00 | MTEV1 |
| (c) 8 Mbps Virtual Connection | | | |
| - Per Connection | 1,000.00 | 504.00 | MTEV2 |
| (d) 10 Mbps Virtual Connection | | | |
| - Per Connection | 1,000.00 | 744.00 | MTEV3 |
| (e) 20 Mbps Virtual Connection | | | |
| - Per Connection | 1,000.00 | 968.00 | MTEV4 |
| (f) 50 Mbps Virtual Connection | | | |
| - Per Connection | 1,000.00 | 1,328.00 | MTEV5 |
| (g) 80 Mbps Virtual Connection | | | |
| - Per Connection | 1,000.00 | 1,484.00 | MTEV6 |
| (h) 100 Mbps Virtual Connection | | | |
| - Per Connection | 1,500.00 | 1,640.00 | MTEV7 |
| (i) 200 Mbps Virtual Connection | | | |
| - Per Connection | 1,500.00 | 2,088.00 | MTEV8 |
| (j) 300 Mbps Virtual Connection | | | |
| - Per Connection | 1,500.00 | 2,356.00 | MTEV9 |
| (k) 450 Mbps Virtual Connection | | | |
| - Per Connection | 1,500.00 | 2,832.00 | MTEVA |
| (l) 600 Mbps Virtual Connection | | | |
| - Per Connection | 1,750.00 | 3,364.00 | MTEVB |
| (m) 750 Mbps Virtual Connection | | | |
| - Per Connection | 1,750.00 | 3,920.00 | MTEVC |
| (n) 900 Mbps Virtual Connection | | | |
| - Per Connection | 2,000.00 | 4,276.00 | MTEVD |

5. BellSouth Metro Ethernet Service Independent Company (ICO) Trunk Arrangements

(N)

(a) ICO Trunk Connection

(N)

- Per VLAN Connection**1,300.00 775.00 MTEGC**

(N)

Note 1: Each Virtual Connection requires the establishment of a Class of Service (CoS) profile.

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ACCESS SERVICES TARIFF

Fifth Revised Page 45.4.6
Cancels Fourth Revised Page 45.4.6

ISSUED: June 4, 2014
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: July 4, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****A. Rates and charges for month-to-month service (Cont'd)****6. BellSouth Metro Ethernet Service Additional Mileage**

- (a) BellSouth Metro Ethernet Service Additional Mileage:
BellSouth Metro Ethernet Service arrangements greater than
10 miles through 25 airline miles

| | Month to Month | USOC | |
|------------------------------------|----------------------|-------|-----|
| - Per 2 – 9 Mbps Connection | \$ 320.00 | MTEMO | (D) |
| - Per 10 – 99 Mbps Connection | 333.00 | MTEMA | |
| - Per 100 – 499 Mbps Connection | 414.00 | MTEMB | |
| - Per 500 Mbps – 1 Gbps Connection | 504.00 | MTEMC | |

- (b) BellSouth Metro Ethernet Service Additional Mileage:
BellSouth Metro Ethernet Service arrangements greater than
25 miles through 35 airline miles
- Per 2 – 9 Mbps Connection
- Per 10 – 99 Mbps Connection
- Per 100 – 499 Mbps Connection
- Per 500 Mbps – 1 Gbps Connection

| | | |
|--------|-------|-----|
| 525.00 | MTEMD | (D) |
| 558.00 | MTEME | |
| 702.00 | MTEMF | |
| 837.00 | MTEMG | |

- (c) BellSouth Metro Ethernet Service Additional Mileage:
BellSouth Metro Ethernet Service arrangements greater than
35 miles through 50 airline miles
- Per 2 – 9 Mbps Connection
- Per 10 – 99 Mbps Connection
- Per 100 – 499 Mbps Connection
- Per 500 Mbps – 1 Gbps Connection

| | | |
|----------|-------|-----|
| 800.00 | MTEMH | (D) |
| 873.00 | MTEMJ | |
| 1,089.00 | MTEMK | |
| 1,314.00 | MTEML | |

7. BellSouth Metro Ethernet Service Independent Company (ICO) Trunk Additional Mileage Charges

- (a) BellSouth Metro Ethernet Service ICO Trunk Additional Mileage:
BellSouth Metro Ethernet Service ICO Trunk arrangements greater than
10 miles through 25 airline miles
- per VLAN Connection

170.00 MTEM1

- (b) BellSouth Metro Ethernet Service ICO Trunk Additional Mileage:
BellSouth Metro Ethernet Service ICO Trunk arrangements greater than
25 miles through 35 airline miles
- per VLAN Connection

420.00 MTEM2

- (c) BellSouth Metro Ethernet Service ICO Trunk Additional Mileage:
BellSouth Metro Ethernet Service ICO Trunk arrangements greater than
35 miles through 50 airline miles
- per VLAN Connection

675.00 MTEM3

(D)

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Fourth Revised Page 45.4.7
Cancels Third Revised Page 45.4.7

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****A. Rates and charges for month-to-month service (Cont'd)****8. Priority Plus Feature¹**

(T)

| | Nonrecurring Charge | Month to Month | USOC |
|--|--------------------------------|-------------------------------|-------------|
| - Per Connection | \$ - | \$ 120.00 | MTEQP |
| 9. Q-Forwarding Feature¹ | | | |
| (a) Q-Forwarding Service Establishment Charge | 400.00 | - | MTEQF |
| - Per Connection | | | |
| (b) Q-Forwarding Network Assignment Charge | - | 80.00 | MTEQN |
| - Per Network, Per Connection | | | |
| 10. VLAN Aggregation Feature² | | | |
| (a) VLAN Aggregation Service Establishment Charge | 400.00 | - | MTEQE |
| - Per Connection | | | |
| (b) VLAN Aggregation Network Assignment Charge | - | 80.00 | MTEQV |
| - Per VLAN, Per Connection | | | |
| 11. CNM - Metro Ethernet Reporting Feature³ | | | |
| (a) CNM - Metro Ethernet Reporting, Service Establishment Charge | 225.00 | - | MTERE |
| - Per Customer Account | | | |
| (b) CNM - Metro Ethernet Reporting Charge | - | 10.00 | MTERC |
| - Per Connection | | | |
| (c) CNM - Metro Ethernet Reporting, Web Interface Charge | - | - | MTER1 |
| - First | 65.00 | 20.00 | MTERW |
| - Each Additional | | | |
| (d) CNM - Metro Ethernet Reporting, Security Card | 200.00 | - | MTERS |
| - Each | | | |

Note 1: Optional feature only available with a Premium Connection.**Note 2:** Optional feature only available with a Virtual Connection.**Note 3:** Optional feature only available with a Premium or Virtual Connection.

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First Revised Page 45.4.7.0.1
Cancels Original Page 45.4.7.0.1

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****A. Rates and charges for month-to-month service (Cont'd)****12. Class of Service (CoS) Profile¹**

(T)

(a) Real-Time CoS²

| | Month to Month | USOC |
|-------|---------------------------|--------------|
| - 10% | \$ 54.00 | MTETF |
| - 20% | 108.00 | MTETG |
| - 25% | 135.00 | MTETH |
| - 30% | 162.00 | MTETJ |
| - 35% | 189.00 | MTETK |
| - 40% | 216.00 | MTETL |
| - 50% | 270.00 | MTETM |
| - 70% | 378.00 | MTETO |

(b) Interactive CoS²

| | | |
|-------|---------------|--------------|
| - 10% | 45.00 | MTEVF |
| - 20% | 90.00 | MTEVG |
| - 25% | 112.00 | MTEVH |
| - 30% | 135.00 | MTEVJ |
| - 35% | 157.00 | MTEVK |
| - 40% | 180.00 | MTEVL |
| - 50% | 225.00 | MTEVM |

Note 1: Each Virtual Connection requires the designation of a CoS profile with desired percentages of each CoS selected. The sum of the percentages for all CoS selected for a Virtual Connection must sum to 100%.

Note 2: The combined CoS bandwidth percentages selected in a customer's Virtual Connection CoS profile for Real-Time CoS plus Interactive CoS may not exceed 50%, except where the customer selects the 70% Real-Time CoS bandwidth percentage and has no Interactive traffic.

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ISSUED: March 16, 2007
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First Revised Page 45.4.7.0.2
Cancels Original Page 45.4.7.0.2

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****A. Rates and charges for month-to-month service (Cont'd)****12. Class of Service (CoS) Profile¹ (Cont'd)**

(T)

(c) Business Critical CoS

| | Month to Month | USOC |
|--------|---------------------------|-------------|
| - 10% | \$ 27.00 | MTEPF |
| - 20% | 54.00 | MTEPG |
| - 25% | 67.00 | MTEPH |
| - 30% | 81.00 | MTEPJ |
| - 35% | 94.00 | MTEPK |
| - 40% | 108.00 | MTEPL |
| - 50% | 135.00 | MTEPM |
| - 60% | 162.00 | MTEPN |
| - 75% | 202.00 | MTEPP |
| - 90% | 243.00 | MTEPQ |
| - 100% | 270.00 | MTEPR |

(d) Best Effort CoS

| | | |
|-------|-------|-------|
| - 10% | 9.00 | MTEBF |
| - 20% | 18.00 | MTEBG |
| - 25% | 22.00 | MTEBH |
| - 30% | 27.00 | MTEBJ |
| - 35% | 31.00 | MTEBK |
| - 40% | 36.00 | MTEBL |
| - 50% | 45.00 | MTEBM |
| - 60% | 54.00 | MTEBN |
| - 75% | 67.00 | MTEBP |
| - 90% | 81.00 | MTEBQ |

Note 1: Each Virtual Connection requires the designation of a CoS profile with desired percentages of each CoS selected. The sum of the percentages for all CoS selected for a Virtual Connection must sum to 100%.

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ISSUED: March 16, 2007
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ACCESS SERVICES TARIFF

Third Revised Page 45.4.7.1
Cancels Second Revised Page 45.4.7.1

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****A. Rates and charges for month-to-month service (Cont'd)**

- 13. Automatic Protection Switching (APS) Feature¹:** Selected to provide automatic protection switching in conjunction with a Basic, Premium or Virtual BellSouth Metro Ethernet Connection of 10 Mbps or higher. Applicable APS rate element based upon type of APS selected and actual total route miles² (rounded up to next whole mile) based upon a customer-specific design as determined by the Telephone Company. (T)

(a) Structural Protection

| | Nonrecurring Charge | Month to Month | USOC |
|---|--------------------------------|-------------------------------|-------------|
| - Per APS Arrangement of less than 10 route miles | \$ 1000.00 | \$ 1900.00 | MTEAO |
| - Per APS Arrangement of 10 through 25 route miles | 1500.00 | 2145.00 | MTEA1 |
| - Per APS Arrangement of greater than 25 through 35 route miles | 2000.00 | 2445.00 | MTEA2 |
| - Per APS Arrangement of greater than 35 through 50 route miles | 2500.00 | 2900.00 | MTEA3 |

(b) Route Protection

| | | | |
|---|---------|---------|-------|
| - Per APS Arrangement of less than 10 route miles | 1500.00 | 2320.00 | MTEA5 |
| - Per APS Arrangement of 10 through 25 route miles | 2000.00 | 2610.00 | MTEA6 |
| - Per APS Arrangement of greater than 25 through 35 route miles | 2500.00 | 2965.00 | MTEA7 |
| - Per APS Arrangement of greater than 35 through 50 route miles | 3000.00 | 3435.00 | MTEA8 |

- 14. Optical Termination Charge:** An electrical termination on the customer premises is standard for 2, 4 and 8 Mbps Basic, Premium and Virtual Connections. Therefore, an Optical Termination Charge applies when an optional optical termination is requested and provided for a 2, 4 or 8 Mbps Connection. (T)

(a) Per Optical Termination

| | | | |
|------------------|---|-------|-------|
| - Per Connection | - | 30.00 | MTEO1 |
|------------------|---|-------|-------|

15. Service Reconfiguration Charge (T)**(a) Per Request**

| | | | |
|------------------|--------|---|-------|
| - Per Connection | 200.00 | - | MTESR |
|------------------|--------|---|-------|

16. System Reconfiguration Charge (T)**(a) Per Request**

| | | | |
|------------------|--------|---|-------|
| - Per Connection | 900.00 | - | MTESY |
|------------------|--------|---|-------|

Note 1: Optional feature only available with a Basic, Premium or Virtual Connection of 10 Mbps or higher. (APS is not available for a 2 Mbps, 4 Mbps or 8 Mbps Basic, Premium or Virtual Connection).

Note 2: Per definition of route mileage provided in E7.2.18U preceding.

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Third Revised Page 45.4.8
Cancels Second Revised Page 45.4.8

ISSUED: June 4, 2014
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: July 4, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****B. Rates and charges for Transport Payment Plan****1. Basic BellSouth Metro Ethernet Service Arrangements****(a) 2 Mbps Basic Connection**

| | Nonrecurring Charge | Transport Payment Plan Rates | | | USOC |
|------------------|------------------------|------------------------------|-------------------|-------------------|-------|
| | | A 12-36 Mos | B 37-60 Mos | C 61-96 Mos | |
| - Per Connection | \$ - | \$ 380.00 | \$ 360.00 | \$ 345.00 | MTEBO |

(b) 4 Mbps Basic Connection

- Per Connection

500.00 415.00 395.00 MTEB1

(c) 8 Mbps Basic Connection

- Per Connection

540.00 475.00 450.00 MTEB2

(d) 10 Mbps Basic Connection

- Per Connection

630.00 599.00 550.00 MTEBA

(e) 100 Mbps Basic Connection

- Per Connection

1,180.00 1,121.00 1,065.00 MTEBB

(f) 1 Gbps Basic Connection

- Per Connection

2,565.00 2,437.00 2,315.00 MTEBC

2. Premium BellSouth Metro Ethernet Service Arrangements**(a) 2 Mbps Premium Connection**

- Per Connection, Fixed Mode

500.00 435.00 415.00 MTEPO

(b) 4 Mbps Premium Connection

- Per Connection, Fixed Mode

540.00 470.00 445.00 MTEP1

(c) 8 Mbps Premium Connection

- Per Connection, Fixed Mode

640.00 510.00 485.00 MTEP2

(d) 10 Mbps Premium Connection

- Per Connection, Fixed Mode

720.00 684.00 650.00 MTEP3

- Per Connection, Burst Mode

900.00 855.00 812.00 MTEE3

(e) 20 Mbps Premium Connection

- Per Connection, Fixed Mode

904.00 859.00 816.00 MTEP4

- Per Connection, Burst Mode

1,013.00 962.00 914.00 MTEE4

(f) 50 Mbps Premium Connection

- Per Connection, Fixed Mode

1,192.00 1,132.00 1,075.00 MTEP5

- Per Connection, Burst Mode

1,238.00 1,176.00 1,117.00 MTEE5

(g) 100 Mbps Premium Connection

- Per Connection, Fixed Mode

1,440.00 1,368.00 1,300.00 MTEP6

- Per Connection, Burst Mode

1,613.00 1,532.00 1,455.00 MTEE6

(h) 250 Mbps Premium Connection

- Per Connection, Fixed Mode

1,800.00 1,710.00 1,625.00 MTEP7

- Per Connection, Burst Mode

1,935.00 1,838.00 1,746.00 MTEE7

(i) 500 Mbps Premium Connection

- Per Connection, Fixed Mode

2,392.00 2,272.00 2,158.00 MTEP8

- Per Connection, Burst Mode

2,475.00 2,351.00 2,233.00 MTEE8

(j) 900 Mbps Premium Connection

- Per Connection, Fixed Mode

3,700.00 3,532.00 3,356.00 MTEP9

3.

(D)
|
(D)

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BY: President - Georgia
Atlanta, Georgia

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Third Revised Page 45.4.8.1
Cancels Second Revised Page 45.4.8.1

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****B. Rates and charges for Transport Payment Plan (Cont'd)**4. Virtual BellSouth Metro Ethernet Service Arrangements¹

(a) 2 Mbps Virtual Connection

| | | Transport Payment Plan Rates | | | USOC |
|---------------------|-----------------------------|-------------------------------------|--------------|--------------|-------------|
| | | A | B | C | |
| | | 12-36 | 37-60 | 61-96 | |
| | | Mos | Mos | Mos | |
| Nonrecurring | Charge | | | | |
| \$ | - | \$ | \$ | \$ | |
| | - Per Connection | 340.00 | 321.00 | 305.00 | MTEVO |
| (b) | 4 Mbps Virtual Connection | | | | |
| | - Per Connection | 380.00 | 359.00 | 341.00 | MTEV1 |
| (c) | 8 Mbps Virtual Connection | | | | |
| | - Per Connection | 480.00 | 454.00 | 431.00 | MTEV2 |
| (d) | 10 Mbps Virtual Connection | | | | |
| | - Per Connection | 560.00 | 529.00 | 503.00 | MTEV3 |
| (e) | 20 Mbps Virtual Connection | | | | |
| | - Per Connection | 744.00 | 703.00 | 668.00 | MTEV4 |
| (f) | 50 Mbps Virtual Connection | | | | |
| | - Per Connection | 1,032.00 | 975.00 | 926.00 | MTEV5 |
| (g) | 80 Mbps Virtual Connection | | | | |
| | - Per Connection | 1,156.00 | 1,092.00 | 1,038.00 | MTEV6 |
| (h) | 100 Mbps Virtual Connection | | | | |
| | - Per Connection | 1,280.00 | 1,210.00 | 1,149.00 | MTEV7 |
| (i) | 200 Mbps Virtual Connection | | | | |
| | - Per Connection | 1,640.00 | 1,550.00 | 1,472.00 | MTEV8 |
| (j) | 300 Mbps Virtual Connection | | | | |
| | - Per Connection | 1,936.00 | 1,830.00 | 1,738.00 | MTEV9 |
| (k) | 450 Mbps Virtual Connection | | | | |
| | - Per Connection | 2,232.00 | 2,109.00 | 2,004.00 | MTEVA |
| (l) | 600 Mbps Virtual Connection | | | | |
| | - Per Connection | 2,660.00 | 2,514.00 | 2,388.00 | MTEVB |
| (m) | 750 Mbps Virtual Connection | | | | |
| | - Per Connection | 3,104.00 | 2,933.00 | 2,787.00 | MTEVC |
| (n) | 900 Mbps Virtual Connection | | | | |
| | - Per Connection | 3,540.00 | 3,345.00 | 3,178.00 | MTEVD |

5. BellSouth Metro Ethernet Service Independent Company (ICO) Trunk Arrangements

(N)

(a) ICO Trunk Connection

(N)

- Per VLAN Connection

500.00 450.00 405.00 MTEGC

(N)

Note 1: Each Virtual Connection requires the establishment of a Class of Service (CoS) profile.

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Fifth Revised Page 45.4.9
Cancels Fourth Revised Page 45.4.9

ISSUED: June 4, 2014
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: July 4, 2014

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****B. Rates and charges for Transport Payment Plan (Cont'd)****6. BellSouth Metro Ethernet Service Additional Mileage**

- (a) BellSouth Metro Ethernet Service Additional Mileage:
BellSouth Metro Ethernet Service arrangements greater than
10 miles through 25 airline miles

| Nonrecurring Charge | Transport Payment Plan Rates | | | USOC | |
|------------------------------------|------------------------------|--------------|--------------|-------|-----|
| | A | B | C | | |
| | 12-36 Mos | 37-60 Mos | 61-96 Mos | | |
| - Per 2 – 9 Mbps Connection | \$ - \$ 320.00 | \$ 320.00 | \$ 320.00 | MTEMO | (D) |
| - Per 10 – 99 Mbps Connection | - 333.00 | 333.00 | 333.00 | MTEMA | |
| - Per 100 – 499 Mbps Connection | - 414.00 | 414.00 | 414.00 | MTEMB | |
| - Per 500 Mbps – 1 Gbps Connection | - 504.00 | 504.00 | 504.00 | MTEMC | |

- (b) BellSouth Metro Ethernet Service Additional Mileage:
BellSouth Metro Ethernet Service arrangements greater than
25 miles through 35 airline miles

| | | | | | |
|------------------------------------|----------|--------|--------|-------|-----|
| - Per 2 – 9 Mbps Connection | - 525.00 | 525.00 | 525.00 | MTEMD | (D) |
| - Per 10 – 99 Mbps Connection | - 558.00 | 558.00 | 558.00 | MTEME | |
| - Per 100 – 499 Mbps Connection | - 702.00 | 702.00 | 702.00 | MTEMF | |
| - Per 500 Mbps – 1 Gbps Connection | - 837.00 | 837.00 | 837.00 | MTEMG | |

- (c) BellSouth Metro Ethernet Service Additional Mileage:
BellSouth Metro Ethernet Service arrangements greater than
35 miles through 50 airline miles

| | | | | | |
|------------------------------------|------------|----------|----------|-------|-----|
| - Per 2 – 9 Mbps Connection | - 800.00 | 800.00 | 800.00 | MTEMH | (D) |
| - Per 10 – 99 Mbps Connection | - 873.00 | 873.00 | 873.00 | MTEMJ | |
| - Per 100 – 499 Mbps Connection | - 1,089.00 | 1,089.00 | 1,089.00 | MTEMK | |
| - Per 500 Mbps – 1 Gbps Connection | - 1,314.00 | 1,314.00 | 1,314.00 | MTEML | |

7. BellSouth Metro Ethernet Service Independent Company (ICO) Trunk Additional Mileage Charges

- (a) BellSouth Metro Ethernet Service ICO Trunk Additional Mileage:
BellSouth Metro Ethernet Service ICO Trunk arrangements greater than
10 miles through 25 airline miles

| | | | | | |
|-----------------------|----------|--------|--------|-------|--|
| - per VLAN Connection | - 170.00 | 170.00 | 170.00 | MTEM1 | |
|-----------------------|----------|--------|--------|-------|--|

- (b) BellSouth Metro Ethernet Service ICO Trunk Additional Mileage:
BellSouth Metro Ethernet Service ICO Trunk arrangements greater than
25 miles through 35 airline miles

| | | | | | |
|-----------------------|----------|--------|--------|-------|--|
| - per VLAN Connection | - 420.00 | 420.00 | 420.00 | MTEM2 | |
|-----------------------|----------|--------|--------|-------|--|

- (c) BellSouth Metro Ethernet Service ICO Trunk Additional Mileage:
BellSouth Metro Ethernet Service ICO Trunk arrangements greater than
35 miles through 50 airline miles

| | | | | | |
|-----------------------|----------|--------|--------|-------|--|
| - per VLAN Connection | - 675.00 | 675.00 | 675.00 | MTEM3 | |
|-----------------------|----------|--------|--------|-------|--|

(D)

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Third Revised Page 45.4.10
Cancels Second Revised Page 45.4.10

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****B. Rates and charges for Transport Payment Plan (Cont'd)****8. Priority Plus Feature¹**

(T)

| Transport Payment Plan Rates | | | | | |
|----------------------------------|-----------|-----------|-----------|----------|-------|
| Nonrecurring Charge ² | A | B | C | USOC | |
| | 12-36 Mos | 37-60 Mos | 61-96 Mos | | |
| - Per Connection | \$ - | \$ 95.00 | \$ 85.00 | \$ 80.00 | MTETP |

9. Q-Forwarding Feature¹

(T)

(a) Q-Forwarding Service Establishment Charge

- Per Connection

| Nonrecurring Charge ² | USOC |
|----------------------------------|-------|
| \$400.00 | MTEQF |

(b) Q-Forwarding Network Assignment Charge

| Transport Payment Plan Rates | | | | | |
|----------------------------------|-----------|-----------|-----------|----------|-------|
| Nonrecurring Charge ² | A | B | C | USOC | |
| | 12-36 Mos | 37-60 Mos | 61-96 Mos | | |
| - Per Network, Per Connection | \$ - | \$ 65.00 | \$ 60.00 | \$ 55.00 | MTEQN |

10. VLAN Aggregation Feature³

(T)

(a) VLAN Aggregation Service Establishment Charge

- Per Connection

| Nonrecurring Charge ² | USOC |
|----------------------------------|-------|
| \$400.00 | MTEQE |

(b) VLAN Aggregation Network Assignment Charge

| Transport Payment Plan Rates | | | | | |
|----------------------------------|-----------|-----------|-----------|----------|-------|
| Nonrecurring Charge ² | A | B | C | USOC | |
| | 12-36 Mos | 37-60 Mos | 61-96 Mos | | |
| - Per VLAN, Per Connection | \$ - | \$ 65.00 | \$ 60.00 | \$ 55.00 | MTEQV |

Note 1: Optional feature only available with a Premium Connection.**Note 2:** This nonrecurring charge is applicable to service under a TPP arrangement.**Note 3:** Optional feature only available with a Virtual Connection.

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ISSUED: March 16, 2007
BY: President - Georgia
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ACCESS SERVICES TARIFF

Second Revised Page 45.4.10.1
Cancels First Revised Page 45.4.10.1

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****B.** Rates and charges for Transport Payment Plan (Cont'd)**II.** CNM - Metro Ethernet Reporting Feature¹

(T)

- (a) CNM - Metro Ethernet Reporting, Service Establishment Charge

Nonrecurring Charge²
\$ 225.00

USOC
MTERE

- Per Customer Account

- (b) CNM - Metro Ethernet Reporting Charge

Transport Payment Plan Rates

| | A | B | C | |
|--|----------------|----------------|----------------|--------------|
| Nonrecurring Charge² | 12-36 | 37-60 | 61-96 | USOC |
| \$ - | Mos | Mos | Mos | MTERC |
| | \$ 8.00 | \$ 6.00 | \$ 5.00 | |

- Per Connection

- (c) CNM - Metro Ethernet Reporting, Web Interface Charge

- First

65.00 **18.00** **15.00** **13.00** **MTER1**

- Each Additional

- (d) CNM - Metro Ethernet Reporting, Security Card

Nonrecurring Charge²
\$ 200.00

USOC
MTERS

- Each

Note 1: Optional feature only available with a Premium or Virtual Connection.**Note 2:** This nonrecurring charge is applicable to service under a TPP arrangement.

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BY: President - Georgia
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First Revised Page 45.4.10.2
Cancels Original Page 45.4.10.2

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****B. Rates and charges for Transport Payment Plan (Cont'd)****12. Class of Service (CoS) Profile¹**

(T)

(a) Real-Time CoS²

| | Transport Payment Plan Rates | | | | USOC |
|-------|----------------------------------|-----------|-----------|-----------|-------|
| | - | A | B | C | |
| | Nonrecurring Charge ³ | 12-36 Mos | 37-60 Mos | 61-96 Mos | |
| - 10% | \$ - | \$ 54.00 | \$ 54.00 | \$ 54.00 | MTETF |
| - 20% | - | 108.00 | 108.00 | 108.00 | MTETG |
| - 25% | - | 135.00 | 135.00 | 135.00 | MTETH |
| - 30% | - | 162.00 | 162.00 | 162.00 | MTETJ |
| - 35% | - | 189.00 | 189.00 | 189.00 | MTETK |
| - 40% | - | 216.00 | 216.00 | 216.00 | MTETL |
| - 50% | - | 270.00 | 270.00 | 270.00 | MTETM |
| - 70% | - | 378.00 | 378.00 | 378.00 | MTETO |

(b) Interactive CoS²

| | | | | | |
|-------|---|--------|--------|--------|-------|
| - 10% | - | 45.00 | 45.00 | 45.00 | MTEVF |
| - 20% | - | 90.00 | 90.00 | 90.00 | MTEVG |
| - 25% | - | 112.00 | 112.00 | 112.00 | MTEVH |
| - 30% | - | 135.00 | 135.00 | 135.00 | MTEVJ |
| - 35% | - | 157.00 | 157.00 | 157.00 | MTEVK |
| - 40% | - | 180.00 | 180.00 | 180.00 | MTEVL |
| - 50% | - | 225.00 | 225.00 | 225.00 | MTEVM |

Note 1: Each Virtual Connection requires the designation of a CoS profile with desired percentages of each CoS selected. The sum of the percentages for all CoS selected for a Virtual Connection must sum to 100%..

Note 2: The combined CoS bandwidth percentages selected in a customer's Virtual Connection CoS profile for Real-Time CoS plus Interactive CoS may not exceed 50%, except where the customer selects the 70% Real-Time CoS bandwidth percentage and has no Interactive traffic.

Note 3: This nonrecurring charge is applicable to service under a TPP Arrangement.

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BY: President - Georgia
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ACCESS SERVICES TARIFF

First Revised Page 45.4.10.3
Cancels Original Page 45.4.10.3

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****B. Rates and charges for Transport Payment Plan (Cont'd)****12. Class of Service (CoS) Profile¹ (Cont'd)**

(T)

(c) Business Critical CoS

| | Transport Payment Plan Rates | | | | USOC |
|--------|-------------------------------------|--------------|--------------|--------------|-------|
| | Nonrecurring Charge ² | A | B | C | |
| | | 12-36 Mos | 37-60 Mos | 61-96 Mos | |
| - 10% | \$ - | \$ 27.00 | \$ 27.00 | \$ 27.00 | MTEPF |
| - 20% | - | 54.00 | 54.00 | 54.00 | MTEPG |
| - 25% | - | 67.00 | 67.00 | 67.00 | MTEPH |
| - 30% | - | 81.00 | 81.00 | 81.00 | MTEPJ |
| - 35% | - | 94.00 | 94.00 | 94.00 | MTEPK |
| - 40% | - | 108.00 | 108.00 | 108.00 | MTEPL |
| - 50% | - | 135.00 | 135.00 | 135.00 | MTEPM |
| - 60% | - | 162.00 | 162.00 | 162.00 | MTEPN |
| - 75% | - | 202.00 | 202.00 | 202.00 | MTEPP |
| - 90% | - | 243.00 | 243.00 | 243.00 | MTEPQ |
| - 100% | - | 270.00 | 270.00 | 270.00 | MTEPR |

(d) Best Effort CoS

| | | | | | |
|-------|---|-------|-------|-------|-------|
| - 10% | - | 9.00 | 9.00 | 9.00 | MTEBF |
| - 20% | - | 18.00 | 18.00 | 18.00 | MTEBG |
| - 25% | - | 22.00 | 22.00 | 22.00 | MTEBH |
| - 30% | - | 27.00 | 27.00 | 27.00 | MTEBJ |
| - 35% | - | 31.00 | 31.00 | 31.00 | MTEBK |
| - 40% | - | 36.00 | 36.00 | 36.00 | MTEBL |
| - 50% | - | 45.00 | 45.00 | 45.00 | MTEBM |
| - 60% | - | 54.00 | 54.00 | 54.00 | MTEBN |
| - 75% | - | 67.00 | 67.00 | 67.00 | MTEBP |
| - 90% | - | 81.00 | 81.00 | 81.00 | MTEBQ |

Note 1: Each Virtual Connection requires the designation of a CoS profile with desired percentages of each CoS selected. The sum of the percentages for all CoS selected for a Virtual Connection must sum to 100%..

Note 2: This nonrecurring charge is applicable to service under a TPP Arrangement.

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ISSUED: March 16, 2007
BY: President - Georgia
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ACCESS SERVICES TARIFF

Third Revised Page 45.4.11
Cancels Second Revised Page 45.4.11

EFFECTIVE: April 15, 2007

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.5 Rates and Charges (Cont'd)****E7.5.22 BellSouth Metro Ethernet Service (Cont'd)****B. Rates and charges for Transport Payment Plan (Cont'd)**

- 13.** Automatic Protection Switching (APS) Feature¹: Selected to provide automatic protection switching in conjunction with a Basic, Premium or Virtual BellSouth Metro Ethernet Connection of 10 Mbps or higher. Applicable APS rate element based upon type of APS selected and actual total route miles² (rounded up to next whole mile) based upon a customer-specific design as determined by the Telephone Company. (T)

(a) Structural Protection

| | Nonrecurring Charge ³ | Transport Payment Plan Rates | | | USOC |
|---|----------------------------------|------------------------------|------------|-----------|-------|
| | | A | B | C | |
| | | 12-36 Mos | 37-60 Mos | 61-96 Mos | |
| - Per APS Arrangement of less than 10 route miles | \$ - | \$ 1250.00 | \$ 1092.00 | \$ 935.00 | MTEAO |
| - Per APS Arrangement of 10 through 25 route miles | - | 1496.00 | 1301.00 | 1126.00 | MTEA1 |
| - Per APS Arrangement of greater than 25 through 35 route miles | - | 1798.00 | 1679.00 | 1530.00 | MTEA2 |
| - Per APS Arrangement of greater than 35 through 50 route miles | - | 2452.00 | 2376.00 | 2134.00 | MTEA3 |

(b) Route Protection

| | | | | | |
|---|---|---------|---------|---------|-------|
| - Per APS Arrangement of less than 10 route miles | - | 1470.00 | 1285.00 | 1100.00 | MTEA5 |
| - Per APS Arrangement of 10 through 25 route miles | - | 1760.00 | 1530.00 | 1325.00 | MTEA6 |
| - Per APS Arrangement of greater than 25 through 35 route miles | - | 2115.00 | 1975.00 | 1800.00 | MTEA7 |
| - Per APS Arrangement of greater than 35 through 50 route miles | - | 2885.00 | 2795.00 | 2510.00 | MTEA8 |

- 14.** Optical Termination Charge: An electrical termination on the customer premises is standard for 2, 4 and 8 Mbps Basic, Premium and Virtual Connections. Therefore, an Optical Termination Charge applies when an optional optical termination is requested and provided for a 2, 4 or 8 Mbps Connection. (T)

(a) Per Optical Termination

| | | | | | |
|------------------|---|-------|-------|-------|-------|
| - Per Connection | - | 30.00 | 30.00 | 30.00 | MTEO1 |
|------------------|---|-------|-------|-------|-------|

15. Service Reconfiguration Charge (T)

(a) Per Request

| | | | |
|------------------|--|----------------------------------|-------|
| - Per Connection | | Nonrecurring Charge ³ | USOC |
| | | \$ 200.00 | MTESR |

16. System Reconfiguration Charge (T)

(a) Per Request

| | | | |
|------------------|--|--------|-------|
| - Per Connection | | 900.00 | MTESY |
|------------------|--|--------|-------|

Note 1: Optional feature only available with a Basic, Premium or Virtual Connection.

Note 2: Per definition of route mileage provided in E7.2.18U preceding.

Note 3: This nonrecurring charge is applicable to service under a TPP arrangement.

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GEORGIA
ISSUED: December 20, 1996
BY: President - Georgia
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ACCESS SERVICES TARIFF

Second Revised Page 45.5
Cancels First Revised Page 45.5

EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(T)

E7.6 Reserved for Future Use

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Fifth Revised Page 46
Cancels Fourth Revised Page 46

ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

E7.7 Custom Network Service (a.k.a. BellSouth Custom Network Service)

E7.7.1 General

Custom Network Service is furnished to provide custom-designed Special Access (a.k.a. BellSouth SPA) service networks. Each network design is tariffed herein as a Custom Network Service Arrangement, and each is further identified with a roman numeral designation (e.g., Custom Network Service Arrangement I).

A Custom Network Service Arrangement is only available under a specified fixed payment period according to the regulations, terms and conditions specified herein.

The Special Access (a.k.a. BellSouth SPA) services included in a Custom Network Service Arrangement are subject to the general regulations stated elsewhere in standard Company tariffs applicable to those services, except where specified otherwise in a Custom Network Service Arrangement.

In order to subscribe to a Custom Network Service Arrangement, the customer's network must meet the minimum requirements stated within that specific Custom Network Service Arrangement with regard to network design and size. The customer must also agree to the terms and conditions stated therein.

E7.7.2 Custom Network Service Arrangement I

A. General

Custom Network Service Arrangement I is provided to furnish a large data network composed of Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service (may be referred to herein as digital data service) and **BellSouth Customer Network Management Service**. High Capacity 1.544 Mbps (a.k.a. BellSouth SPA DS1) service is available in Custom Network Service Arrangement I as an optional service. (C)

This arrangement will provide the regulations, rates and charges to allow the provisioning of the data network for the specified payment period. Regulations, rates and charges provided in Custom Network Service Arrangement I apply to services provided in Southern Bell serving area within Georgia (herein referred to as the Company) and all participating Independent Company territories. Service provided in non-participating Independent Company territories will be provided under the regulations, provided in the standard tariff sections for the services included in Custom Network Service Arrangement I.

Unless specified, the service provided in Custom Network Service Arrangement I will be subject to the regulations in this Tariff which apply to Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service, **BellSouth Customer Network Management Service** and High Capacity 1.544 Mbps (a.k.a. BellSouth SPA DS1) service from Section E7. Certain features of **BellSouth Customer Network Management Service** are provided within Custom Network Service Arrangement I; other components of **BellSouth Customer Network Management Service** are required in order to provide **BellSouth Customer Network Management Service** capability for this data network and will be provided from E7.5. (C)

B. Regulations

Custom Network Service Arrangement I is provided under a fixed five (5) year payment period and shall be administered in accordance with the regulations contained in the Channel Services Payment Plan, E2.4.9.A., except as follows:

1. The customer has the following options for service following the expiration of the five-year payment period:
 - a. The customer may elect to enter into a new Custom Network Service Arrangement I payment agreement at the rates in effect herein for new customers at the time his contract service expires.
 - b. The customer may elect that his network service revert back to the generally available Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service, **BellSouth Customer Network Management Service** and High Capacity 1.544 Mbps (a.k.a. BellSouth SPA DS1) service rates in Section E7. that are in effect at the time his contract service expires. (C)

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ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

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Fifth Revised Page 47
Cancels Fourth Revised Page 47

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.7 Custom Network Service (a.k.a. BellSouth Custom Network Service) (Cont'd)****E7.7.2 Custom Network Service Arrangement I (Cont'd)****B. Regulations (Cont'd)**

- c. The customer may elect that all Custom Network Service (a.k.a. BellSouth Custom Network Service) be disconnected at the expiration of his contract period. No Termination Liability Charges shall apply.
 - d. If the customer does not elect a., b., or c. preceding, or does not notify the Company of his intentions prior to the time his contract service expires, service shall be continued at the monthly rates currently in effect for month-to-month Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service, **BellSouth Customer Network Management Service** and High Capacity 1.544 Mbps (a.k.a. BellSouth SPA DS1) service from Section E7. until notified otherwise by the customer. (C)
2. The initial order for Custom Network Service Arrangement I must be for a data network with a minimum of 1000 digital data local channels to be located in the Company serving area in Georgia. The network size must grow to a minimum of 2000 digital data local channels located in the Company serving area by the first anniversary (12 months) date of the signing of the payment agreement for Custom Network Service Arrangement I and grow to a minimum of 3000 digital data local channels located in the Company serving area by the second anniversary; this 3000 digital data local channel minimum shall apply for the remainder of the five year payment period. The network size shall be reviewed annually on the anniversary date of the signing of the payment agreement for the Custom Network Service Arrangement I. The purpose of each annual review is to determine if the appropriate data network minimum size has been met and is being maintained and to make any billing adjustments if the size is below the stated minimum.
 - a. If the count of local channels is the appropriate minimum or greater on the anniversary date, the network minimum has been met and no billing adjustment is required.
 - b. If the count of local channels is less than the appropriate minimum on the anniversary date, the network minimum has not been met and a one-time charge shall apply to adjust the billing for the prior year. This charge shall be referred to as the Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service annual adjustment charge and is not subject to the Deferred Payment option in E2.4.9.A.

The calculation to determine this annual adjustment charge takes into account a customer's inward and outward movement that may have occurred for purposes of recovering revenue due for the shortfall in the minimum local channel count.

The annual adjustment charge shall be calculated as follows and shall be imputed as a one-time charge.

 - (1) The customer shall pay the equivalent of the monthly rate for a 2.4 Kbps digital local channel provided within their Custom Network Service Arrangement I times the difference between the aggregate local channel count on the anniversary date and the appropriate local channel minimum times 6 months.
3. The data network provided under Custom Network Service Arrangement I must include **BellSouth Customer Network Management Service** capabilities. The customer's network must contain a minimum of 2000 DS0 Channel Connections and 2000 Multipoint Junction Units by the end of the first year. The customer shall estimate his projected quantities of DS0 Channel Connections and Multipoint Junction Units that will be in service by the end of the first year of this payment period agreement, and that count shall be utilized to establish the appropriate rating for the first year. (C)

An actual count of these **BellSouth Customer Network Management Service** quantities shall be made on each anniversary date of the signing of the Custom Network Service Arrangement I payment period agreement; applicable rates for the next year shall be based upon that count if the **BellSouth Customer Network Management Service** network minimums have been met. (C)

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ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.7 Custom Network Service (a.k.a. BellSouth Custom Network Service) (Cont'd)****E7.7.2 Custom Network Service Arrangement I (Cont'd)****B. Regulations (Cont'd)****3. (Cont'd)**

If the count of the DS0 Channel Connections or Multipoint Junction Units is less than the 2000 minimum on any anniversary date, the *BellSouth Customer Network Management Service* network minimum has not been met. The billing for the following year shall be from the "2000 - 2999" rate band and a one-time charge shall apply to adjust the billing for the prior year. This charge shall be referred to as the *BellSouth Customer Network Management Service* annual adjustment charge and is calculated as follows to be imputed as a one-time charge. (C)

- The customer shall pay the monthly rate for the DS0 Channel Connection or Multipoint Junction Unit (as appropriate from the "2000 - 2999" rate band provided within their Custom Network Service Arrangement I), times the difference between the actual count and the 2000 minimum, times 6 months.

4. The data network provided under Custom Network Service Arrangement I may include any quantity of High Capacity 1.544 Mbps (a.k.a. BellSouth SPA DS1) service in the provisioning of this Special Access (a.k.a. BellSouth SPA) service network at the rates and charges provided in C. following.

5. The disconnect or moves¹ of individual local and/or interoffice channels, hub termination and/or associated optional features within the Custom Network Service Arrangement I payment period shall be considered as partial disconnects of the network and shall not incur a Termination Liability Charge. A Termination Liability Charge shall apply only for the complete disconnect of all service within Custom Network Service Arrangement I (except as specified in 6. following) and shall be calculated as follows:

- The Termination Liability Charge shall be equal to the appropriate monthly rates as specified herein Custom Network Service Arrangement I, times the number of months remaining in the payment period, times the quantities of all service in place at the time of disconnect - with the minimum quantity of 3000 Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service local channels,² 2000 *BellSouth Customer Network Management Service* DS0 Channel Connections and 2000 *BellSouth Customer Network Management Service* Multipoint Junction Units to be used if the actual number at the time of disconnect is less than these network minimums. (C)

6. A Termination Liability Charge as specified in 5. preceding shall apply for the complete disconnect of Custom Network Service Arrangement I unless both of the following conditions are met: (1) the disconnect occurs after Custom Network Service Arrangement I has been in-place for a minimum of 12 months and (2) if the customer elects another Custom Network Service Arrangement for a period of time equal to or greater than the amount of time remaining in his Custom Network Service Arrangement I payment period. If these conditions are met, no Termination Liability Charge shall apply.

Note 1: Appropriate nonrecurring charges apply for the installation of the moved service at the new location.

Note 2: If the disconnect occurs prior to the second anniversary of the signing of the payment period agreement, the appropriate minimum for Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service local channels is 2000.

BELLSOUTH
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ISSUED: December 20, 1996
BY: President - Georgia
Atlanta, Georgia

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Fourth Revised Page 49
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EFFECTIVE: January 19, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

(T)

E7.7 Custom Network Service (a.k.a. BellSouth Custom Network Service) (Cont'd)

(T)

E7.7.2 Custom Network Service Arrangement I (Cont'd)**C. Rates and Charges****1. Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service¹**

(T)

a. Local Channel, each**(1) Per Point of Termination**

| | | Nonrecurring Charge | | |
|---------------|--------------|-------------------------|------------------------------|-------|
| | Monthly Rate | First Service Installed | Additional Service Installed | USOC |
| (a) 2.4 Kbps | \$33.00 | \$420.00 | \$145.00 | T6ECS |
| (b) 4.8 Kbps | 33.00 | 420.00 | 145.00 | T6ECS |
| (c) 9.6 Kbps | 33.00 | 420.00 | 145.00 | T6ECS |
| (d) 19.2 Kbps | 33.00 | 420.00 | 145.00 | T6ECS |
| (e) 56.0 Kbps | 50.00 | 420.00 | 145.00 | T6ECS |
| (f) 64.0 Kbps | 50.00 | 420.00 | 145.00 | T6ECS |

b. Hub Termination, each**(1) Per Local Channel**

| | | | | |
|---------------|-------|-------|-------|-------|
| (a) 2.4 Kbps | 8.00 | 73.00 | 54.00 | TUTA4 |
| (b) 4.8 Kbps | 8.00 | 73.00 | 54.00 | TUTB4 |
| (c) 9.6 Kbps | 8.00 | 73.00 | 54.00 | TUTC4 |
| (d) 19.2 Kbps | 8.00 | 73.00 | 54.00 | TUTE4 |
| (e) 56.0 Kbps | 22.00 | 73.00 | 54.00 | TUTD4 |
| (f) 64.0 Kbps | 22.00 | 73.00 | 54.00 | TUTF4 |

c. Interoffice Channel, 0 miles**(1) Per channel**

| | Monthly Rate | Nonrecurring Charge | USOC |
|-----------------------------------|--------------|---------------------|-------|
| (a) 2.4, 4.8, 9.6 and 19.2 Kbps | \$- | \$- | 1L5XX |
| (b) 56.0 and 64.0 Kbps | - | - | 1L5XX |
| (2) Each mile or fraction thereof | | | |
| (a) 2.4, 4.8, 9.6 and 19.2 Kbps | - | - | 1L5XX |
| (b) 56.0 and 64.0 Kbps | - | - | 1L5XX |

d. Interoffice Channel, Over 0 miles**(1) Per channel**

| | | | |
|-----------------------------------|-------|-------|-------|
| (a) 2.4, 4.8, 9.6 and 19.2 Kbps | 16.00 | 48.00 | 1L5XX |
| (b) 56.0 and 64.0 Kbps | 29.00 | 48.00 | 1L5XX |
| (2) Each mile or fraction thereof | | | |
| (a) 2.4, 4.8, 9.6 and 19.2 Kbps | 1.00 | - | 1L5XX |
| (b) 56.0 and 64.0 Kbps | 2.80 | - | 1L5XX |

Note 1: Appropriate nonrecurring charges apply for the installation of the moved service at the new location.

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ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.7 Custom Network Service (a.k.a. BellSouth Custom Network Service) (Cont'd)****E7.7.2 Custom Network Service Arrangement I (Cont'd)****C. Rates and Charges (Cont'd)****1. Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service¹ (Cont'd)****e. Optional Features and Functions****(1) Bridging**

| | Monthly Rate | Nonrecurring Charge | USOC |
|---|-----------------|------------------------|-------|
| (a) Per Port | \$10.00 | \$24.00 | BCNDA |
| (2) <i>BellSouth Customer Network Management Service</i> ^{1,2} | | | (C) |
| DS0 Channel Connection, Per Channel | | | |

| | Installation Charge | Monthly Rate | USOC |
|---|------------------------|-----------------|-------|
| (a) 2000 - 2999 | \$25.00 | \$3.50 | DSLDA |
| (b) 3000 - 3999 | 20.00 | 2.75 | DSLDA |
| (c) 4000 and above | 15.00 | 2.00 | DSLDA |
| (3) <i>BellSouth Customer Network Management Service</i> ^{1,2} | | | (C) |
| Multipoint Junction Unit, Per channel ³ | | | |
| (a) 2000 - 2999 | 11.50 | 3.50 | FSSFJ |
| (b) 3000 - 3999 | 9.75 | 3.00 | FSSFJ |
| (c) 4000 and above | 8.00 | 2.50 | FSSFJ |

2. High Capacity (a.k.a. BellSouth SPA DS1) service¹**a. Local Channel****(1) Per Point of Termination**

| | Monthly Rate | Nonrecurring Charge First Service Installed | Additional Service Installed | USOC |
|------------------------|-----------------|--|------------------------------------|-------|
| (a) 1.544 Mbps | \$111.00 | \$665.00 | \$315.00 | TMECS |
| b. Interoffice Channel | | | | |
| (1) 1.544 Mbps | | | | |

| | Fixed Monthly Rate | Monthly Rate Per Mile | Nonrecurring Charges | USOC |
|---------------------|--------------------------|-----------------------------|-------------------------|-------|
| (a) 0 miles | \$- | \$- | \$- | 1L5XX |
| (b) 1 thru 8 miles | 85.00 | 20.00 | 265.00 | 1L5XX |
| (c) 9 thru 25 miles | 85.00 | 18.00 | 265.00 | 1L5XX |
| (d) Over 25 miles | 85.00 | 16.00 | 265.00 | 1L5XX |

Note 1: The monthly rates shown are for the fixed five year payment period.

Note 2: Other *BellSouth Customer Network Management Service* rate elements from E7.5 are required to provide *BellSouth Customer Network Management Service* capability. (C)

Note 3: One unit contains 5 connections. Must be purchased in groups of 5.

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Fifth Revised Page 51
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ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (a.k.a. BellSouth SPA) SERVICE**E7.7 Custom Network Service (a.k.a. BellSouth Custom Network Service)****E7.7.3 Custom Network Service Arrangement II****A. General**

Custom Network Service Arrangement II is provided to furnish a large data network composed of Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service (may be referred to herein as digital data service) and **BellSouth Customer Network Management Service**. High Capacity 1.544 Mbps (a.k.a. BellSouth SPA DS1) service is available in Custom Network Service Arrangement II as an optional service. (C)

This arrangement will provide the regulations, rates and charges to allow the provisioning of the data network for the specified payment period. Regulations, rates and charges provided in Custom Network Service Arrangement II apply to services provided in BellSouth's serving area within Georgia (herein referred to as the Company) and all participating Independent Company territories. Service provided in non-participating Independent Company territories will be provided under the regulations, rates and charges provided in the standard tariff sections for the services included in Custom Network Service Arrangement II.

Unless specified, the service provided in Custom Network Service Arrangement II will be subject to the regulations in this Tariff which apply to Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service, **BellSouth Customer Network Management Service** and High Capacity 1.544 Mbps (a.k.a. BellSouth SPA DS1) service from Section E7. Certain features of **BellSouth Customer Network Management Service** are provided within Custom Network Service Arrangement II; other components of **BellSouth Customer Network Management Service** are required in order to provide **BellSouth Customer Network Management Service** capability for this data network and will be provided from E7.5. (C)

Customers subscribing to Custom Network Service Arrangement I may request to subscribe to Custom Network Service Arrangement II after completing a minimum of one year (twelve months) of their Custom Network Service Arrangement I service period agreement if their network size equals or exceeds all the network minimums established herein for Custom Network Service Arrangement II (i.e., 5000 digital data local channels, 5000 **BellSouth Customer Network Management Service** Channel Connections and 7000 **BellSouth Customer Network Management Service** Multipoint Junction Unit Connections). The customer shall receive previous service credit for the full months completed under Custom Network Service Arrangement I that shall be used to reduce the ten year payment period for Custom Network Service Arrangement II. (C)

B. Regulations

Custom Network Service Arrangement II is provided under a fixed ten (10) year payment period subject to review and recalculation set forth in 8. following and shall be administered in accordance with the regulations contained in the Channel Services Payment Plan, E2.4.9.A., except as follows:

1. The customer has the following options for service following the expiration of the ten-year payment period:
 - a. The customer may elect to enter into a new Custom Network Service Arrangement II payment agreement at the rates in effect herein for new customers at the time his contract service expires.
 - b. The customer may elect that his network service revert back to the generally available Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service, **BellSouth Customer Network Management Service** and High Capacity 1.544 Mbps (a.k.a. BellSouth SPA DS1) service rates in Section E7. that are in effect at the time his contract service expires. (C)
 - c. The customer may elect that all Custom Network Service (a.k.a. BellSouth Custom Network Service) be disconnected at the expiration of his contract period. No Termination Liability Charges shall apply.
 - d. If the customer does not elect a., b., or c. preceding, or does not notify the Company of his intentions prior to the time his contract service expires, service shall be continued at the monthly rates currently in effect for month-to-month Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service, **BellSouth Customer Network Management Service** and High Capacity 1.544 Mbps (a.k.a. BellSouth SPA DS1) service from Section E7. until notified otherwise by the customer. (C)

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Fourth Revised Page 52
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ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.7 Custom Network Service (a.k.a. BellSouth Custom Network Service) (Cont'd)****E7.7.3 Custom Network Service Arrangement II (Cont'd)****B. Regulations (Cont'd)**

2. The minimum size for a data network under Custom Network Service Arrangement II shall be 5000 digital data local channels to be located in the Company serving area in Georgia. Except as specified in A. preceding for a Custom Network Service Arrangement I customer converting to Custom Network Service Arrangement II, a customer's data network may be less than the 5000 local channel minimum size upon electing to subscribe to Custom Network Service Arrangement II, however, the network size must grow to the 5000 digital data local channel minimum by the first anniversary (12 months) date of the signing of the payment agreement for Custom Network Service Arrangement II.

The size of the data network shall remain a minimum of 5000 digital data local channels for the ten-year payment period. The network size shall be reviewed annually on the anniversary date of the signing of the payment agreement for the Custom Network Service Arrangement II. The purpose of each annual review is to determine if the appropriate data network minimum size has been met and is being maintained and to make any billing adjustments if the size is below the stated minimum.

- a. If the count of digital local channels is 5000 or greater on the anniversary date, the network minimum has been met and no billing adjustment is required.
- b. If the count of digital local channels is less than 5000 on the anniversary date, the network minimum has not been met and a one-time charge shall apply to adjust the billing for the prior year. This charge shall be referred to as the annual adjustment charge and is not subject to the Deferred Payment option in E2.4.9.A.

The calculation to determine this annual adjustment charge takes into account a customer's inward and outward movement that may have occurred for purposes of recovering revenue due for the shortfall in the minimum local channel count.

The annual adjustment charge shall be calculated as follows and shall be imputed as a one-time charge.

- (1) The customer shall pay the equivalent of the monthly rate for a 2.4 Kbps digital data local channel provided within their Custom Network Service Arrangement II times the difference between the actual local channel count on the anniversary date and the 5000 local channel minimum times 6 months.
3. The data network provided under Custom Network Service Arrangement II must include ***BellSouth Customer Network Management Service*** capabilities. The customer's network must contain a minimum of 5000 DS0 Digital Channel Connections and 7000 Multipoint Junction Unit Connections. Except as specified in A. preceding for a Custom Network Service Arrangement I customer converting to Custom Network Service Arrangement II, a customer's data network may be less than the 5000 DS0 Digital Channel Connection and 7000 Multipoint Junction Unit Connection minimum size upon electing to subscribe to Custom Network Service Arrangement II, however, the network size must grow to reach or exceed each minimum quantity by the first anniversary (12 months) date of the signing of the payment agreement for Custom Network Service Arrangement II. (C)

The size of the data network shall remain a minimum of 5000 DS0 Digital Channel Connections and 7000 Multipoint Junction Unit Connections for the ten-year payment period. The network size shall be reviewed annually on the anniversary date of the signing of the payment agreement for Custom Network Service Arrangement II. The purpose of each annual review is to determine if the data network minimum size has been met and is being maintained and to make any billing adjustments if the size is below the stated minimum.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: October 15, 1997
BY: President - Georgia
Atlanta, Georgia

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Third Revised Page 53
Cancels Second Revised Page 53

EFFECTIVE: November 14, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.7 Custom Network Service (a.k.a. BellSouth Custom Network Service) (Cont'd)****E7.7.3 Custom Network Service Arrangement II (Cont'd)****B. Regulations (Cont'd)****3. (Cont'd)**

a. If the count of DS0 Digital Channel Connections is 5000 or greater on the anniversary date and the count of Multipoint Junction Unit Connections is 7000 or greater on the anniversary date, the network minimums have been met and no billing adjustment is required.

b. If the count of DS0 Digital Channel Connections is less than the network minimum of 5000 on the anniversary date and/or the count of the Multipoint Junction Unit Connections is less than the network minimum of 7000 on the anniversary date, the network minimum has not been met and a one-time charge shall apply to adjust the billing for the prior year. This charge shall be referred to as the annual adjustment charge and is not subject to the Deferred Payment option provided in E2.4.9.A.

The calculation to determine this annual adjustment charge takes into account a customer's inward and outward movement that may have occurred for purposes of recovering revenue due for the shortfall in the network size minimums.

The annual adjustment charge shall be calculated as follows and shall be imputed as a one-time charge.

(1) The customer shall pay the equivalent of the monthly rate for a DS0 Digital Channel Connection provided with their Custom Network Service Arrangement II times the difference between the actual DS0 Digital Channel Connection count on the anniversary date and the 5000 DS0 Digital Channel Connection minimum times 6 months¹, plus, the equivalent of the monthly rate for a Multipoint Junction Unit Connection provided within their Custom Network Service Arrangement II times the difference between the actual Multipoint Junction Unit Connection count on the anniversary date and the 7000 Multipoint Junction Unit Connection minimum times 6 months¹.

4. The data network provided under Custom Network Service Arrangement II may include any quantity of High Capacity 1.544 Mbps (a.k.a. BellSouth SPA DS1) service in the provisioning of this Special Access (a.k.a. BellSouth SPA) service network at the rates and charges provided in C. following.

5. The disconnect or moves² of individual local and/or interoffice channels, hub terminations and/or associated optional features within the Custom Network Service Arrangement II payment period shall be considered as partial disconnects of the network and shall not incur a Termination Liability Charge. A Termination Liability Charge shall apply only for the complete disconnect of all service within Custom Network Service Arrangement II (except as specified in 6. following) and shall be calculated as follows:

- The Termination Liability Charge shall be equal to the appropriate monthly rates as specified herein Custom Network Service Arrangement II, times the number of months remaining in the payment period, times the quantities of all service in place at the time of disconnect - with the minimum quantity of 5000 Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service local channels, 5000 FlexServ[®] service (a.k.a. BellSouth SPA Customer Reconfiguration) DS0 Digital Channel Connections and 7000 FlexServ[®] service (a.k.a. BellSouth SPA Customer Reconfiguration) Multipoint Junction Unit Connections to be used if the actual number at the time of disconnect is less than these network minimums.

Note 1: This portion of the annual adjustment charge applies only if the specified network minimum is not met.

Note 2: Appropriate nonrecurring charges apply for the installation of the moved service at the new location.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: October 15, 1997
BY: President - Georgia
Atlanta, Georgia

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EFFECTIVE: November 14, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.7 Custom Network Service (a.k.a. BellSouth Custom Network Service) (Cont'd)****E7.7.3 Custom Network Service Arrangement II (Cont'd)****B. Regulations (Cont'd)**

6. A Termination Liability Charge as specified in 5. preceding shall apply for the complete disconnect of Custom Network Service Arrangement II except under the following conditions:

- a. the disconnect occurs after Custom Network Service Arrangement II has been in-place for a minimum of 12 months and the customer elects another Custom Network Service Arrangement for a period of time equal to or greater than the amount of time remaining in his Custom Network Service Arrangement II payment period.
- b. the disconnect occurs after Custom Network Service Arrangement II has been in-place for a minimum of five years and the customer subscribing to Custom Network Service Arrangement II is using the service to provide the Georgia Lottery or any other type of arrangement where the right to provide the service is dependent upon a bid awarded contract and said customer loses the right to provide the service.

If conditions specified in a. or b. preceding are met, no Termination Liability Charge shall apply.

7. Nonrecurring charges specified in C. following do not apply for the conversion of service in-place at the time the customer establishes Custom Network Service II. Any requests for new service to be added to the customer's network at the time Custom Network Service Arrangement II is established will be subject to the nonrecurring charges specified in C. following.

8. A customer may request a special billing arrangement for Custom Network Service Arrangement II service for billing to be performed on a flat rate "per drop" basis. A special billing arrangement for Custom Network Service Arrangement II may be requested after the service has been in place for at least one (1) year and all network minimums have been met. (Custom Network Service Arrangement I networks converting to Custom Network Service Arrangement II may request Custom Network Service Arrangement II billing to commence immediately under such a special billing arrangement. The Custom Network Service Arrangement II "per drop" calculations shall be performed using the customer's most recent in-service information available at the time of the conversion.)

The special billing arrangement shall be developed on an individual case basis for each customer utilizing his specific network's in-service quantities. The flat rate "per drop" shall be calculated using the customer's total monthly billing for Custom Network Service Arrangement II divided by the number of local channels in the network; the resultant "per drop" rate shall then apply per local channel provided in the Custom Network Service Arrangement II network. A flat rate "per drop" nonrecurring charge shall be developed using the same average rate element configuration.

A Custom Network Service Arrangement II network with such a special billing arrangement shall still be subject to the regulations set forth in this Tariff; however, the monthly flat rate "per drop" shall be utilized in the development of any Termination Liability Charges or annual adjustment charges in lieu of the charges specified in 2. and 3. preceding.

The Custom Network Service Arrangement II shall still be subject to review on each anniversary date as specified in 2. and 3. after a special billing arrangement is provided to make sure that the general terms of Custom Network Service Arrangement II have been met.

At its discretion, the Company may review the customer's network configuration and change the flat rate "per drop" accordingly when major customer-requested rearrangements and changes to the network¹ will result in what the Company determines to be a significant change in the appropriate monthly billing on a "per drop" basis.

Note 1: Examples of major customer-requested rearrangements and changes would be (1) changing a significant portion of a predominantly lowspeed network to a highspeed network, (2) changing a significant portion of a predominantly highspeed network to lowspeed, (3) adding or dropping Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service bridging as a major part of the network design, or (4) major network optimization/rerouting at the request of the customer.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: October 15, 1997
BY: President - Georgia
Atlanta, Georgia

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Third Revised Page 55
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EFFECTIVE: November 14, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.7 Custom Network Service (a.k.a. BellSouth Custom Network Service) (Cont'd)****E7.7.2 Custom Network Service Arrangement II (Cont'd)****C. Rates and Charges****1. Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service¹****a. Local Channel, each****(1) Per Point of Termination**

| | Monthly Rate | Nonrecurring Charge | | USOC | |
|---------------|-------------------------|----------------------------|-------------------|-------------|-----|
| | | First | Additional | | |
| (a) 2.4 Kbps | \$37.00 | \$420.00 | \$145.00 | T6ECS | (N) |
| (b) 4.8 Kbps | 37.00 | 420.00 | 145.00 | T6ECS | (N) |
| (c) 9.6 Kbps | 37.00 | 420.00 | 145.00 | T6ECS | (N) |
| (d) 19.2 Kbps | 37.00 | 420.00 | 145.00 | T6ECS | (N) |
| (e) 56.0 Kbps | 50.00 | 420.00 | 145.00 | T6ECS | (N) |
| (f) 64.0 Kbps | 50.00 | 420.00 | 145.00 | T6ECS | (N) |

b. Hub Termination, each**(1) Per Local Channel**

| | Monthly Rate | First | Additional | USOC | |
|---------------|-------------------------|--------------|-------------------|-------------|-----|
| (a) 2.4 Kbps | 3.00 | 73.00 | 54.00 | TUTA4 | (N) |
| (b) 4.8 Kbps | 3.00 | 73.00 | 54.00 | TUTB4 | (N) |
| (c) 9.6 Kbps | 3.00 | 73.00 | 54.00 | TUTC4 | (N) |
| (d) 19.2 Kbps | 3.00 | 73.00 | 54.00 | TUTE4 | (N) |
| (e) 56.0 Kbps | 22.00 | 73.00 | 54.00 | TUTD4 | (N) |
| (f) 64.0 Kbps | 22.00 | 73.00 | 54.00 | TUTF4 | (N) |

c. Interoffice Channel, 0 Miles**(1) Per Channel**

| | Monthly Rate | Nonrecurring Charge | USOC | |
|--------------------------------------|-------------------------|--------------------------------|-------------|-----|
| (a) 2.4, 4.8, 9.6 and 19.2 Kbps | \$- | \$- | 1L5XX | (N) |
| (b) 56.0 and 64.0 Kbps | - | - | 1L5XX | (N) |
| (2) Each mile or fraction thereof | | | | (N) |
| (a) 2.4, 4.8, 9.6 and 19.2 Kbps | - | - | 1L5XX | (N) |
| (b) 56.0 and 64.0 Kbps | - | - | 1L5XX | (N) |
| d. Interoffice Channel, Over 0 miles | | | | (N) |
| (1) Per channel | | | | (N) |
| (a) 2.4, 4.8, 9.6 and 19.2 Kbps | \$10.50 | \$48.00 | 1L5XX | (N) |
| (b) 56.0 and 64.0 Kbps | 29.00 | 48.00 | 1L5XX | (N) |
| (2) Each mile or fraction thereof | | | | (N) |
| (a) 2.4, 4.8, 9.6 and 19.2 Kbps | 0.69 | - | 1L5XX | (N) |
| (b) 56.0 and 64.0 Kbps | 2.80 | - | 1L5XX | (N) |

Note 1: The monthly rates shown are for the fixed ten year payment period.

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Fourth Revised Page 56
Cancels Third Revised Page 56

ISSUED: November 1, 2005
BY: President - Georgia
Atlanta, Georgia

EFFECTIVE: December 1, 2005

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.7 Custom Network Service (a.k.a. BellSouth Custom Network Service) (Cont'd)****E7.7.2 Custom Network Service Arrangement II (Cont'd)****C. Rates and Charges****2. High Capacity (a.k.a. BellSouth SPA High Capacity) Service¹****a. Local Channel, each****(1) Per Point of Termination**

| | Monthly Rate | Nonrecurring Charge First | Additional | USOC TMECS | |
|-------------------------------|-------------------------|--------------------------------------|-------------------|-----------------------|-----|
| (a) 1.544 Mbps | \$111.00 | \$665.00 | \$315.00 | | |
| b. Interoffice Channel | | | | | (T) |
| (1) 1.544 Mbps | | | | | |

| | Fixed Monthly Rate | Monthly Rate Per Mile | Nonrecurring Charges | USOC | |
|--|-----------------------------------|--------------------------------------|---------------------------------|--------------|-----|
| (a) 0 miles | \$- | \$- | \$- | 1L5XX | |
| (b) 1 thru 8 miles | 85.00 | 20.00 | 265.00 | 1L5XX | |
| (c) 9 thru 25 miles | 85.00 | 18.00 | 265.00 | 1L5XX | |
| (d) Over 25 miles | 85.00 | 16.00 | 265.00 | 1L5XX | |
| 3. <i>BellSouth Customer Network Management Service</i>¹ | | | | | (C) |

a. DS0 Channel Connection**(1) Digital Type**

| | Monthly Rate | Nonrecurring Charge | USOC | |
|---|-------------------------|--------------------------------|--------------|-----|
| (a) Per digital channel | \$2.00 | \$15.00 | DSLDA | |
| b. Multipoint Junction Unit | | | | |
| (1) Per 2.4, 4.8, 9.6 or 56 Kbps Channel Connection | | | | (T) |
| (a) Per Channel Connection ² | 2.50 | 8.00 | FSSFJ | |

Note 1: The monthly rates shown are for the fixed ten year payment period.

Note 2: One unit contains 5 connections. Must be purchased in groups of 5.

BELLSOUTH
TELECOMMUNICATIONS, INC.
GEORGIA
ISSUED: October 15, 1997
BY: President - Georgia
Atlanta, Georgia

ACCESS SERVICES TARIFF

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EFFECTIVE: November 14, 1997

E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE

Cancellation Page

(M)

The following pages have been cancelled.

| Page | Revision | Page | Revision | Page | Revision | |
|-----------|----------|------|----------|-------|----------|-----|
| (DELETED) | | 77.1 | 1 | 103 | 1 | (D) |
| (DELETED) | | 78 | 2 | 104 | 1 | (D) |
| (DELETED) | | 78.1 | 1 | 105 | 1 | (D) |
| (DELETED) | | 79 | 2 | 106 | 1 | (D) |
| (DELETED) | | 80 | 1 | 107 | 1 | (D) |
| (DELETED) | | 81 | 1 | 108 | 1 | (D) |
| 58 | 2 | 82 | 1 | 109 | 1 | |
| 59 | 2 | 83 | 1 | 110 | 1 | |
| 60 | 2 | 84 | 1 | 111 | 1 | |
| 61 | 2 | 85 | 2 | 112 | 1 | |
| 61.1 | 1 | 85.1 | 1 | 113 | 2 | |
| 62 | 1 | 86 | 1 | 113.1 | 1 | |
| 63 | 1 | 87 | 1 | 114 | 1 | |
| 64 | 1 | 89 | 1 | 115 | 1 | |
| 65 | 1 | 90 | 1 | 116 | 1 | |
| 66 | 1 | 91 | 2 | 117 | 2 | |
| 67 | 1 | 92 | 2 | 118 | 2 | |
| 68 | 1 | 92.1 | 1 | 119 | 1 | |
| 69 | 1 | 93 | 1 | | | |
| 70 | 1 | 94 | 1 | | | |
| 71 | 1 | 95 | 1 | | | |
| 72 | 1 | 96 | 2 | | | |
| 73 | 1 | 97 | 1 | | | |
| 74 | 1 | 98 | 1 | | | |
| 75 | 1 | 99 | 1 | | | |
| 76 | 2 | 100 | 1 | | | |
| 76.1 | 1 | 101 | 1 | | | |
| 77 | 2 | 102 | 1 | | | |

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