

**TARIFF DISTRIBUTION**

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## E7. SPECIAL ACCESS (A.K.A. BELL SOUTH SPA) SERVICE

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## E7. SPECIAL ACCESS (A.K.A. BELL SOUTH 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 following.
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 following. 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 following.
  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<sup>1</sup> (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<sup>1</sup> (a.k.a. BellSouth SPA DS0 VG) channels.

#### E7.1.2 Rate Categories

- A. There are four basic rate categories which apply to Special Access (a.k.a. BellSouth SPA) service: (C)
1. Local Channels (described in B. following)
  2. Interoffice Channel (described in C. following)
  3. Optional Features and Functions (described in D. following)
  4. SMARTRing<sup>®2</sup> service (a.k.a. BellSouth Dedicated Ring)
- B. Local Channel  
The Local Channel rate category provides for the communications path between the demarcation point at a customer 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 C. following. 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.
- 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.

**Note 1:** Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

**Note 2:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

## 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 SPA CNM - FlexServ service (a.k.a. BellSouth SPA Customer Reconfiguration)

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.

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

##### E. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing<sup>1</sup> service [a.k.a. BellSouth Dedicated Ring]) (C)

###### 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 E7.2.16.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.

###### 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.

**Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

## E7. SPECIAL ACCESS (A.K.A. BELL SOUTH SPA) SERVICE

### E7.1 General (Cont'd)

#### E7.1.2 Rate Categories (Cont'd)

- D.** Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing<sup>1</sup> service [a.k.a. BellSouth Dedicated Ring]) (Cont'd) (C)
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.
- E.** Access Collocation Cross-Connects  
Access Collocation Cross-Connects provide a means for customers to interconnect their Shared Use 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<sup>1</sup> service (a.k.a. BellSouth Dedicated Ring) (C)

(M)

(N)

**Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (M)

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

### E7.1 General (Cont'd)

#### E7.1.3 Service Configurations (Cont'd)

**A. Two-Point Service**

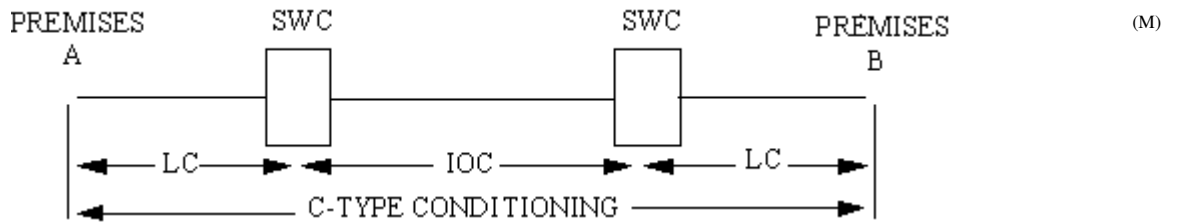
A two-point service connects two customer designated premises, either on a directly connected basis or through a hub where channelization functions are performed. (M)

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. (M)

The following diagram depicts a two-point Voice Grade<sup>1</sup> (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.



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

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.

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 may be applicable.

**Note 1:** Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (M)

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

### E7.1 General (Cont'd)

#### E7.1.3 Service Configurations (Cont'd)

##### C. SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring)

(C)

1. The SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) configuration utilizes a multi-nodal ring architecture which is specified jointly by the 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 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) Local Channels, Alternate Central Office Channels, Interoffice Channels and Internodal Channels as applicable. SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) may be connected to other DS3/DS1 services only at Central Office Nodes. With OC-12 SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) installed on or after June 3, 1994, and with OC-48 and OC-48+ SMARTRing<sup>®</sup> 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring). With OC-48 SMARTRing<sup>®</sup> 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring). In an Overlay Ring Arrangement, node and channel configuration requirements apply to the host SMARTRing<sup>®</sup> 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)

**Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

(N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(N)



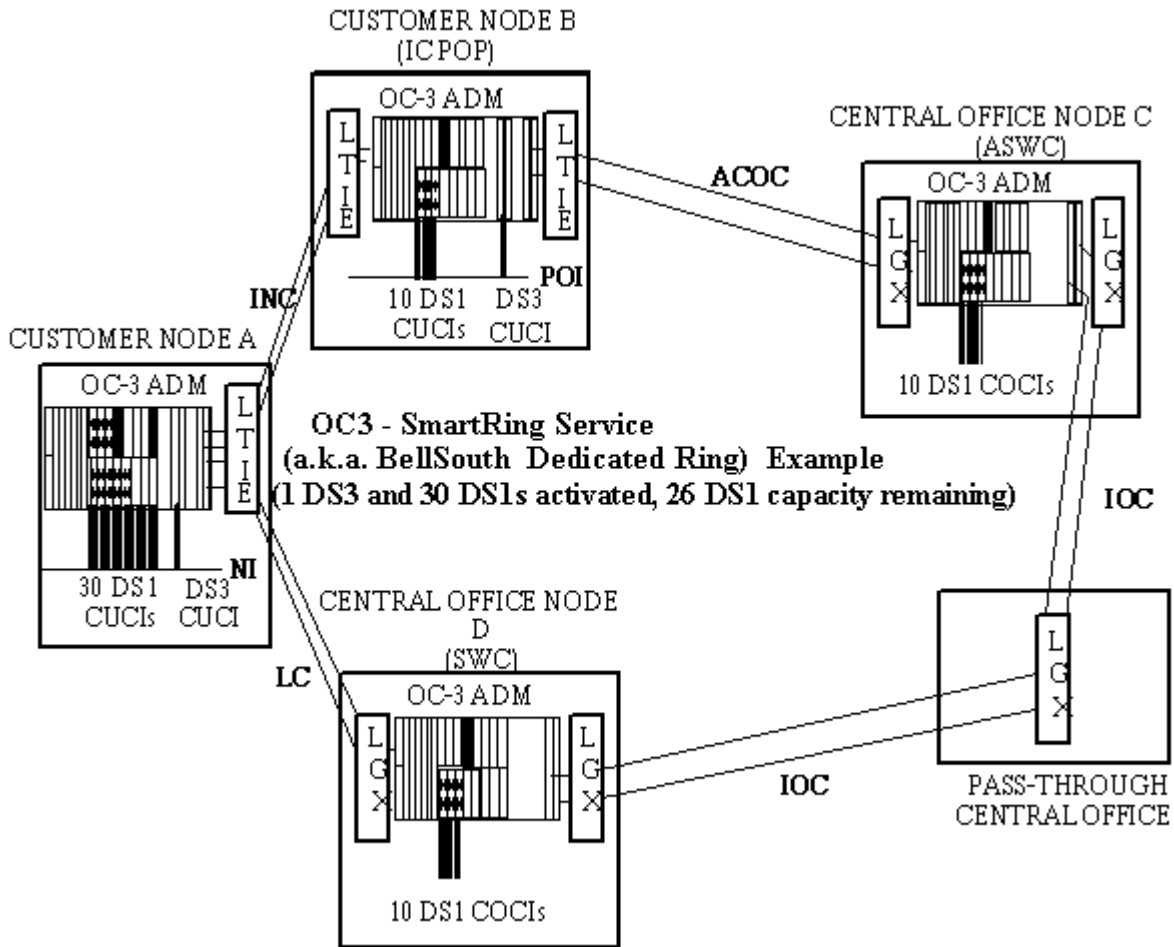
**E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**

**E7.1 General (Cont'd)**

**E7.1.3 Service Configurations**

C. SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) (Cont'd)

(C)



**OC3 - SmartRing Service (a.k.a. BellSouth Dedicated Ring) Example (1 DS3 and 30 DS1s activated, 26 DS1 capacity remaining)**

**Example: SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) OC-3 capacity.**

For this example the following rate elements are applicable:

(C)

- 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

**Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

(N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(N)

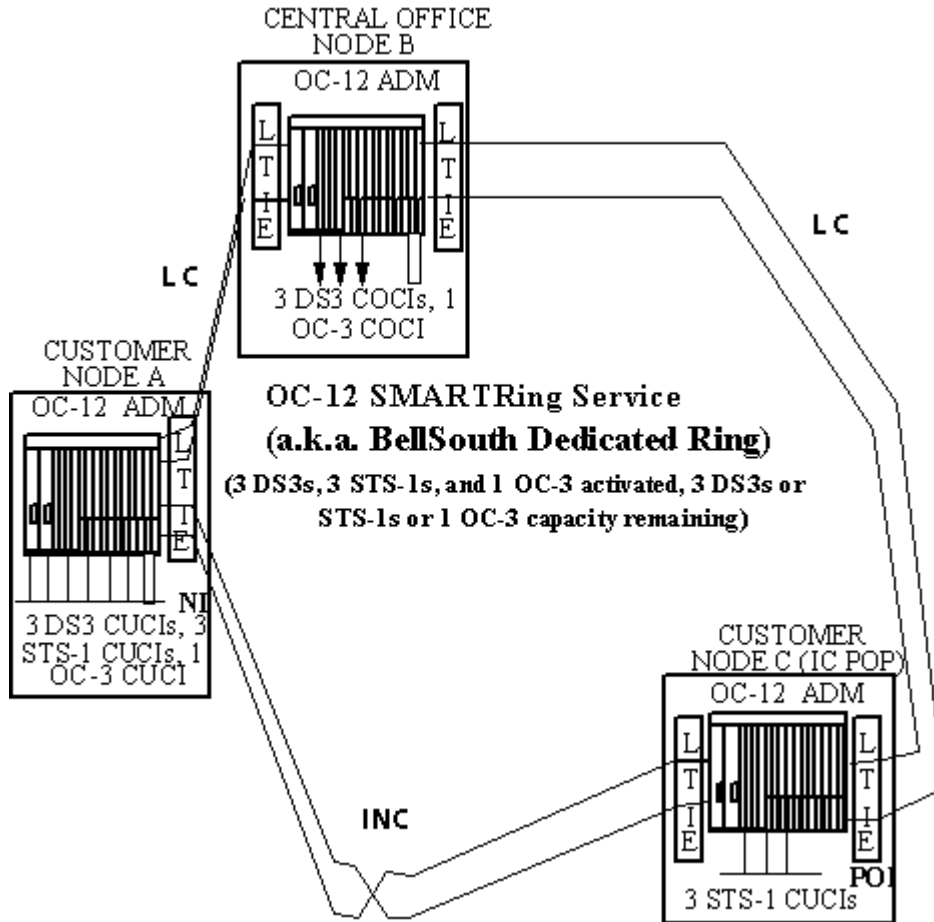
**E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**

**E7.1 General (Cont'd)**

**E7.1.3 Service Configurations (Cont'd)**

C. SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) (Cont'd)

(C)



**Example: SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) OC-12 capacity.**

For this example the following rate elements are applicable:

(C)

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

**Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

(N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(N)

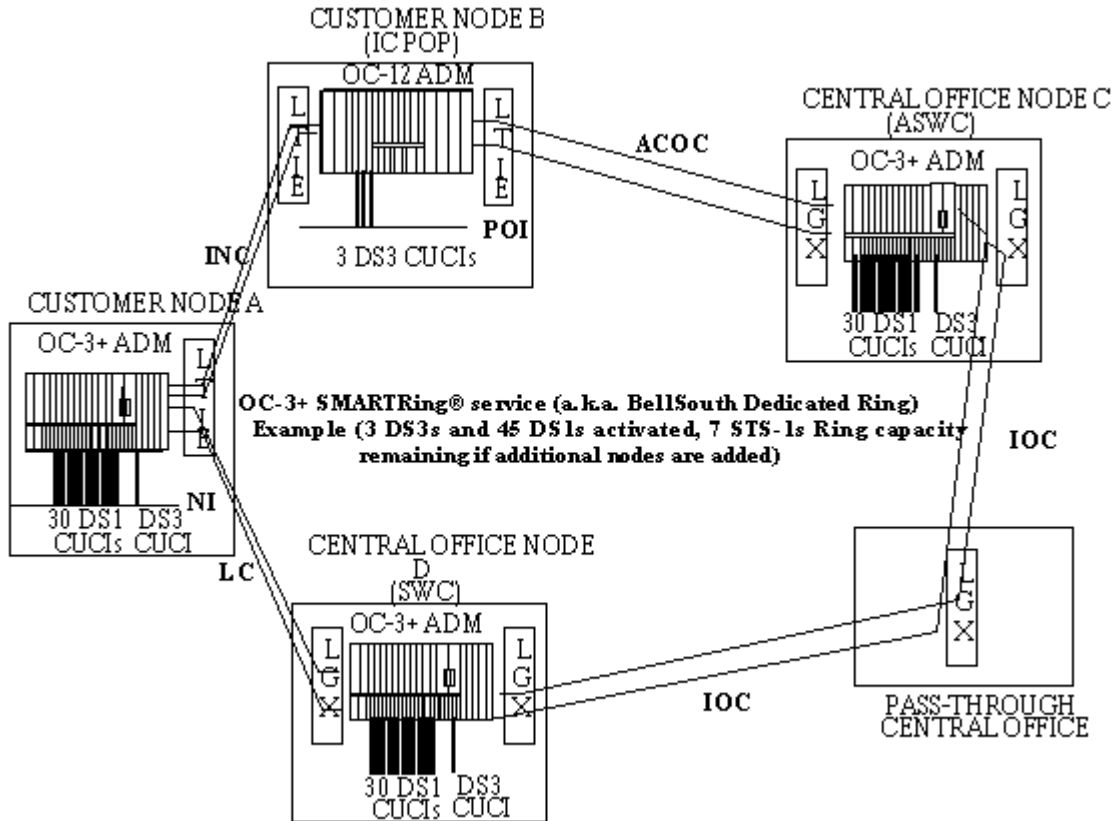
**E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**

**E7.1 General (Cont'd)**

**E7.1.3 Service Configurations (Cont'd)**

C. SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) (Cont'd)

(C)



**Example: SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) OC-3+ capacity.**

For this example the following rate elements are applicable:

(C)

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

**Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

(N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(N)

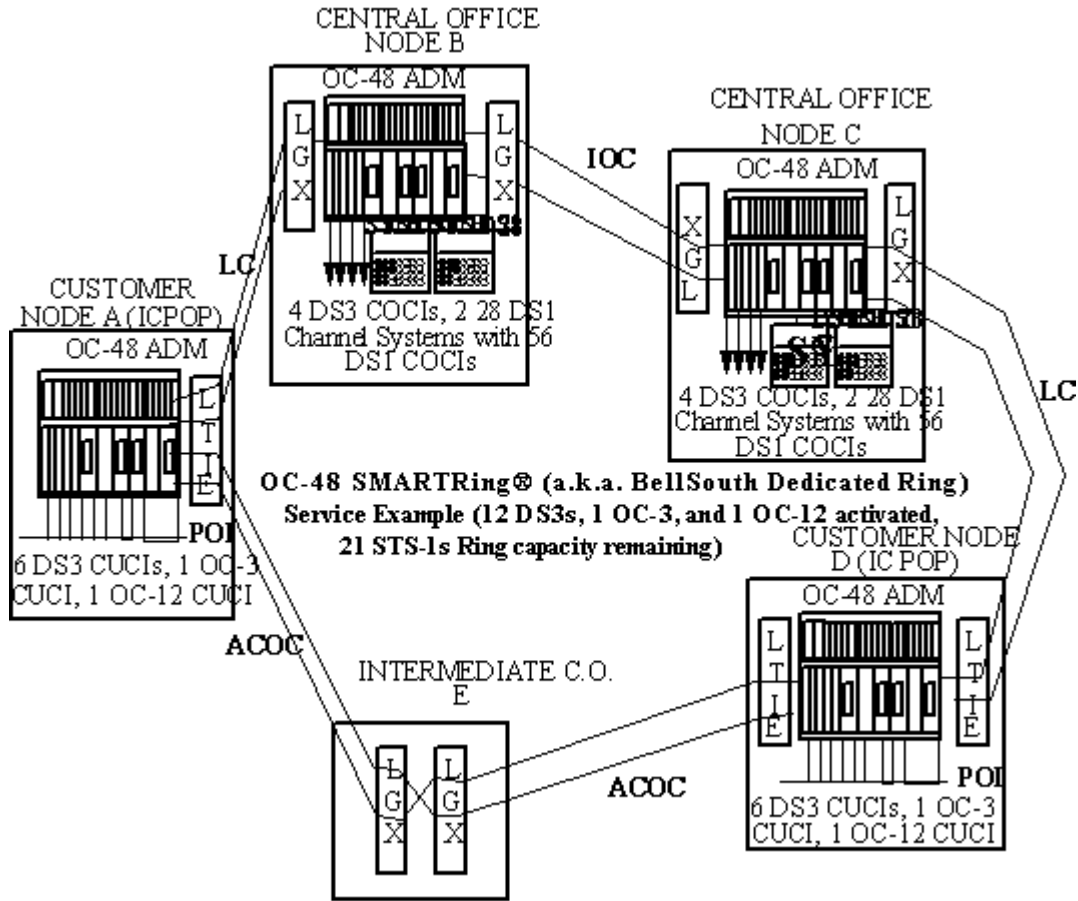
**E7. SPECIAL ACCESS (A.K.A. BELL SOUTH SPA) SERVICE**

**E7.1 General (Cont'd)**

**E7.1.3 Service Configurations (Cont'd)**

C. SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) (Cont'd)

(C)



**Example: SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) OC-48 capacity.**

For this example the following rate elements are applicable:

(C)

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

**Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

(N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(N)

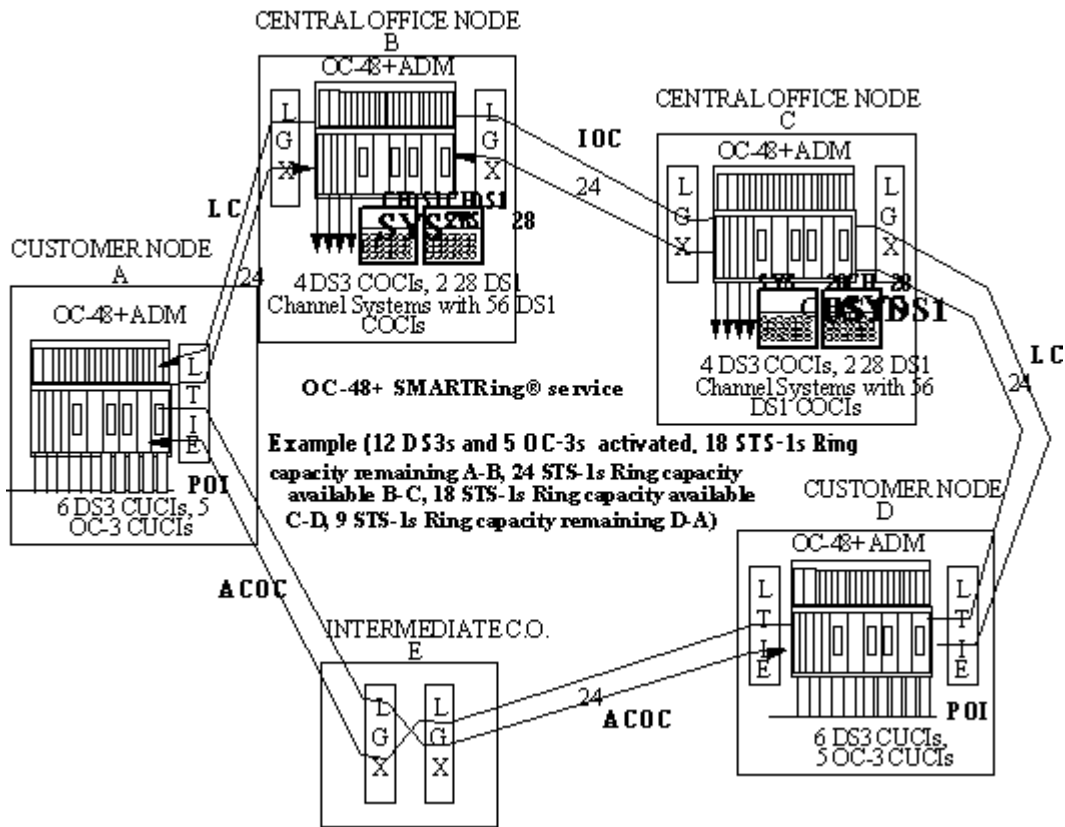
**E7. SPECIAL ACCESS (A.K.A. BELL SOUTH SPA) SERVICE**

**E7.1 General (Cont'd)**

**E7.1.3 Service Configurations (Cont'd)**

C. SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) (Cont'd)

(C)



**Example: SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) service OC-48+ capacity.**

For this example the following rate elements are applicable:

(C)

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

**Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

(N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(N)

## 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 ten categories of Special Access (a.k.a. BellSouth SPA) service. These are: (Cont'd) (C)
4. **(DELETED)**
  5. Digital Data Access<sup>1</sup> (a.k.a. BellSouth SPA DS0 Digital Data) service (DDAS)
  6. High Capacity (a.k.a. BellSouth SPA High Capacity) (HC)
  7. WATS Access Line<sup>1</sup> (a.k.a. BellSouth SPA WATS Line) (WAL)
  8. Derived Data Channel<sup>1</sup> (a.k.a. BellSouth SPA Derived Data Channel) service
  9. Self-Healing Rings (SMARTRing<sup>2</sup> service [a.k.a. BellSouth Dedicated Ring])
- 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<sup>1</sup> service. An alphanumeric designation following the two letter code indicates the specific predefined package. When appropriate, the Technical Reference which 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:

Voice Grade<sup>1</sup> (a.k.a. BellSouth SPA DSO VG)

TR-NPL-000335

PUB 41004, Table 4

**Note 1:** Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

**Note 2:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

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

### E7.2 Service Descriptions (Cont'd)

#### E7.2.16 SMARTRing<sup>®2</sup> Service (a.k.a. BellSouth Dedicated Ring)

- A. Self-healing Multi-nodal Alternate Route Topology Ring
1. SMARTRing<sup>®</sup> 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 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 Company Central Offices. This ring topology will continually monitor DS1, DS3, STS-1, OC-3, OC-12, OC-48 and 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 1000 Mbps services between locations within the network.
  2. SMARTRing<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring). The OC-1 SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) shares the transport of its host SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring). OC-1 SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) provides an equivalent capacity of 28 DS1s or one STS-1. When an OC-1 SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) overlays an OC-12, OC-48, or OC-48+ SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring), an OC-1 channel interface is required.
  4. OC-3 SMARTRing<sup>®</sup> 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring). OC-3 SMARTRing<sup>®</sup> 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 OC-3 ring.
  5. OC-3+ SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) is available as an individual service, or in combination with OC-12 SMARTRing<sup>®</sup> 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring). OC-3+ SMARTRing<sup>®</sup> 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.
  6. When a customer orders OC-3+ SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) in combination with OC-12 SMARTRing<sup>®</sup> 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) is available as an individual service, or in combination with OC-3+ SMARTRing<sup>®(1)</sup> 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring). OC-12 SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) provides an equivalent capacity of 12 DS3s.
  8. OC-48 SMARTRing<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) provides an equivalent capacity of 48 DS3s.

**Note 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.

**Note 2:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

**E7. SPECIAL ACCESS (A.K.A. BELL SOUTH SPA) SERVICE**

**E7.2 Service Descriptions (Cont'd)**

**E7.2.16 SMARTRing<sup>®</sup> Service (a.k.a. BellSouth Dedicated Ring) (Cont'd)**

- A. Self-healing Multi-nodal Alternate Route Topology Ring (Cont'd) (C)
- 9. OC-48+ SMARTRing<sup>®</sup> 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring), or with overlaying rings in capacities of OC-1, and/or OC-3. It provides equivalent capacity of 24 DS3s between consecutive node locations on the ring. The maximum capacity of the OC-48+ SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) is determined by the number of Customer and Central Office nodes on the ring. (M1)
- 10. OC-192 SMARTRing<sup>®</sup> 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) provides an equivalent capacity of 192 DS3s. (M1)
- 11. OC-192+ SMARTRing<sup>®</sup> 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) is determined by the number of Customer and Central Office nodes on the ring. (M1)
- 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 <sup>1</sup>	No <sup>1</sup>	No <sup>1</sup>	No <sup>1</sup>	No <sup>1</sup>
DS3	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
STS-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OC-1 <sup>2</sup>	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 <sup>3</sup>	Yes <sup>3</sup>	Yes	Yes
100 Mbps BellSouth Metro Ethernet <sup>6</sup> Backbone <sup>4</sup>	No	No	No	Yes	Yes	Yes	Yes	Yes
1000 Mbps BellSouth Metro Ethernet <sup>6</sup> Backbone	No	No	No	No	Yes	Yes	Yes	Yes
Fractional 1000 Mbps at 150 Mbps, 300 Mbps or 450 Mbps BellSouth Metro Ethernet <sup>6</sup> Backbone <sup>5</sup>	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fractional 1000 Mbps at 600 Mbps BellSouth Metro Ethernet <sup>6</sup> Backbone <sup>5</sup>	No	No	No	No	Yes	Yes	Yes	Yes

- 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 November 28, 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.
  - Note 6:** Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.
  - Note 7:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (N)
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

M1 Material appearing on this page previously appeared on page(s) 21.4 of this section.  
 M2 Material previously appearing on this page now appears on page(s) 21.5.1 of this section.



## E7. SPECIAL ACCESS (A.K.A. BELL SOUTH SPA) SERVICE

### E7.2 Service Descriptions (Cont'd)

#### E7.2.16 SMARTRing<sup>1</sup> Service (a.k.a. BellSouth Dedicated Ring) (Cont'd) (C)

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

13. SMARTRing service (a.k.a. BellSouth Dedicated Ring) Overlay Ring Arrangements are available as follows: (M1)

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

**Host SMARTRing service  
(a.k.a. BellSouth Dedicated Ring)** (M1)

	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 Company Central Offices to any 44.736 Mbps and/or 1.544 Mbps services as provided in Section E7. Rates and charges for such other services are as set forth in the applicable sections 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 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 Company facilities do not exist for the second Local Channel, the Company may provide an equivalent second Local Channel via an existing alternate route. When facilities become available for the second Local Channel, the Company may rearrange the alternate route at any time.

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, BellSouth SPA CNM - FlexServ service may not be ordered with a Regeneration Node, however, a customer may monitor a Regeneration Node via the BellSouth SPA CNM - FlexServ 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 SPA CNM - FlexServ service Surveillance. Regeneration Node and Regeneration Node Surveillance, as applicable, will appear on a customer's records as non-rated USOC(s), as follows:

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

**Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (M2)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

M1 Material appearing on this page previously appeared on page(s) 21.5 of this section.

M2 Material previously appearing on this page now appears on page(s) 21.6 of this section.

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

### E7.2 Service Descriptions (Cont'd)

#### E7.2.16 SMARTRing<sup>1</sup> Service (a.k.a. BellSouth Dedicated Ring) (Cont'd)

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

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:

<u>Shared Node Interconnection Primary Ring Capacity</u>	<u>Shared Node Interconnection Secondary Ring Capacity Available For Use With Primary Rings</u>			
	OC-3	OC-12	OC-48	OC-48+
OC-12	X			
OC-48	X	X		
OC-192	X	X	X	X

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.

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

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

**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

**Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

## 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)

The following list identifies the individual Special Access (a.k.a. BellSouth SPA) services provided under Section E7, which are eligible for credit of nonrecurring charges under "Service Installation Guarantee" found in E2.4.10. 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. (C)

- Voice Grade<sup>2</sup> (a.k.a. BellSouth SPA DS0 VG),
- Wired Music,
- Digital Data Access (a.k.a. BellSouth SPA DS0 Digital Data) service<sup>1, 2</sup>,
- High Capacity (a.k.a. BellSouth SPA High Capacity) service
- SMARTRing<sup>4</sup> service (a.k.a. BellSouth Dedicated Ring)

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

- BellSouth SPA CNM - FlexServ service
- Derived Data Channel<sup>2</sup> (a.k.a. BellSouth SPA Derived Data Channel) service
- BellSouth Metro Ethernet<sup>3</sup> service
- Service rearrangements

##### 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.

##### 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.

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

**Note 2:** Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

**Note 3:** Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

**Note 4:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

## 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)

- 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<sup>1</sup> (a.k.a. BellSouth SPA DS0 VG) service, a charge equal to the Voice Grade<sup>1</sup> (a.k.a. BellSouth SPA DS0 VG) Local Channel rate element nonrecurring charge will apply. The charge will apply per service termination affected. (C)

-If the change involves a customer requested change of data transmission rate for an existing Digital Data Access<sup>1</sup> (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.6. following. This charge shall apply per local channel on each circuit where 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.) (C)

-If the change involves changing (reconfiguring) an existing BellSouth Metro Ethernet<sup>2</sup> service Connection, appropriate charges provided in E7.4.32 following apply. (C)

- If the change involves the addition of a DS3 Network Interface Unit (NIU) to a SMARTRing<sup>3</sup> service (a.k.a. BellSouth SPA Dedicated Ring) the rates and charges shown in E13.3.25. (C)

- 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.

##### 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.

#### 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 Service. The Special Access Surcharge compensates the Company for use of the local exchange network when Special Access Service is connected to a PBX or equivalent device which is capable of interconnecting the Special Access Service with local exchange service.

The Company will automatically bill the surcharge on each Special Access Service installed irrespective of whether the interconnection capability exists in the customer's premises equipment or in a Centrex Type Services switch unless written certification is received from the customer certifying exemption status as set forth in B. following. (M)

(M)

(M)

(C)

(C)

(C)

(C)

(C)

(C)

(C)

(C)

(N)

(N)

(N)

(N)

(N)

(N)

(N)

(N)

(N)

## 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)

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

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: (M)

1. An open-end termination in a Company switch on an FX line, including CCSA and CCSA-equivalent ONALs; or (M)
2. an analog Local Channel that is used for radio or television program transmission; or (M)
3. a termination used for TELEX service; or (M)
4. a termination that by the nature of its operating characteristics could not make use of Company common lines, or (M)
5. a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line charges<sup>1</sup> 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 (M)
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.

**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 service 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.

**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 (a.k.a. BellSouth SPA) 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 Service (a.k.a. BellSouth SPA)	Voice Grade Equivalent	Surcharge	Monthly Charge
Voice Grade (a.k.a. BellSouth SPA DS0 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.

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

## E7. SPECIAL ACCESS (A.K.A. BELL SOUTH SPA) SERVICE

### E7.4 Rate Regulations (Cont'd)

#### E7.4.3 Reserved For Future Use

#### E7.4.4 Minimum Periods

Except under conditions specified in E2.4.9 of this Tariff and following, the minimum service period for all services is one month.

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 SMARTRing<sup>2</sup> service (a.k.a. BellSouth Dedicated Ring) and BellSouth Metro Ethernet<sup>1</sup> service is four (4) months. (C)

#### 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
- 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. of this Tariff.

#### 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 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.

**Note 1:** Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

**Note 2:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

## E7. SPECIAL ACCESS (A.K.A. BELL SOUTH SPA) SERVICE

### E7.4 Rate Regulations (Cont'd)

#### E7.4.6 Mileage Measurement (Cont'd)

- 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<sup>®</sup> 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. (C)
- E. The SMARTRing<sup>®</sup> 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. (C)

(M)

- Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (N)
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

## E7. SPECIAL ACCESS (A.K.A. BELL SOUTH SPA) SERVICE

### E7.4 Rate Regulations (Cont'd)

#### E7.4.7 Facility Hubs

A customer has the option of ordering voice grade<sup>1</sup> (a.k.a. BellSouth SPA DS0 VG) 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., Voice<sup>1</sup> (a.k.a. BellSouth SPA DS0 VG), etc.). (M1)

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. (M1)

Some of the types of channelization available include the following: (M1)

- 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<sup>1</sup> (a.k.a. BellSouth SPA DS0 VG), not High Capacity (a.k.a. BellSouth SPA High Capacity) (M1)

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<sup>1</sup> (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 (a.k.a. BellSouth SPA DS1) and DS0<sup>1</sup> (a.k.a. BellSouth SPA DS0 Digital Data) Basic Channelization Systems require a Central Office Channel Interface for activation of each lesser capacity channel. DS3 (a.k.a. BellSouth SPA DS3) to DS1 (a.k.a. BellSouth SPA DS1) channelization arrangements, for transport of intrastate DS1 (a.k.a. BellSouth SPA DS1) service high capacity channels via LightGate<sup>®</sup> services (a.k.a. BellSouth SPA Point to Point Network) and SMARTRing<sup>®2</sup> services (a.k.a. BellSouth SPA Dedicated Ring), require 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. (M1) (C)

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. (M1)

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<sup>1</sup> (a.k.a. BellSouth SPA DS0 Digital Data) Central Office Channel Interface are required for high speed or low speed DDAS<sup>1</sup> (a.k.a. BellSouth SPA DS0 Digital Data) activations when channelized from a DS1 (1.544 Mbps) channel. A DS0 Basic Channelization System<sup>1</sup> and Subrate Central Office Channel Interface<sup>1</sup> are required for subrate activations of 2.4, 4.8 and 9.6 Kbps when channelized from a DS0<sup>1</sup> (64 Kbps) channel. When cascading channelization is performed at different Hubbing locations, Interoffice Channel charges also apply between the Hubs. (M2)

**Note 1:** Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

**Note 2:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

M1 Material appearing on this page previously appeared on page(s) 32 of this section.

M2 Material previously appearing on this page now appears on page(s) 32.2 of this section.



## 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 service are provided over the same High Capacity (a.k.a. BellSouth SPA High Capacity) facility through a common interface. When the customer orders Special Access (a.k.a. BellSouth SPA) service, the facility will be 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 service. As each individual channel is activated for BellSouth SWA service the Special Access (a.k.a. BellSouth SPA) Local Channel rates, and Interoffice Channel rates will be reduced accordingly (e.g., 1/24th for a DS1 service, etc.). The customer must place an order for each individual BellSouth SWA service Channel utilizing the Shared Use Facilities and specify the channel assignment for each such service. BellSouth SWA service rates and charges as set forth in E6.8 will apply for each channel of the shared use facility that is used to provide BellSouth SWA service. 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<sup>1</sup> (a.k.a. BellSouth SPA DS0 VG), etc.). The applicable rates and charges will include a Local Channel and Interoffice Channel, and appropriate channelization elements, if applicable. (M)

Access Collocation Cross-Connects provide a means for customers to interconnect their BellSouth Shared Use and 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. (M)

The capability exists for a customer to utilize all or part of a SMARTRing<sup>2</sup> service (a.k.a. BellSouth Dedicated Ring) to transport switched access provided the SMARTRing<sup>2</sup> service (a.k.a. BellSouth Dedicated Ring) channel interface transporting the BellSouth SWA service does not have BellSouth SPA CNM - FlexServ 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<sup>2</sup> 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<sup>1</sup> (a.k.a. BellSouth SPA DS0 VG) equivalent trunks/lines of that rate element used for BellSouth SWA access. (M) (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<sup>2</sup> 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. (M) (C)

**Note 1:** Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024. (M)

**Note 2:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

## **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)**

The system reduction factor will be derived by dividing the number of activated BellSouth SWA access circuits by the voice grade<sup>1</sup> (a.k.a. BellSouth SPA DS0 VG) channel equivalent capacity of the self-healing ring. An OC-1 SMARTRing<sup>2</sup> service (a.k.a. BellSouth Dedicated Ring) has 672 voice grade<sup>1</sup> (a.k.a. BellSouth SPA DS0 VG) equivalent channels. An OC-3 SMARTRing<sup>2</sup> service (a.k.a. BellSouth Dedicated Ring) has 2,016 voice grade<sup>1</sup> (a.k.a. BellSouth SPA DS0 VG) equivalent channels. An OC-3+ or OC-12 SMARTRing<sup>2</sup> service (a.k.a. BellSouth Dedicated Ring) has 8,064 voice grade<sup>1</sup> equivalent channels. An OC-48 SMARTRing<sup>2</sup> service (a.k.a. BellSouth Dedicated Ring) or OC-48+ SMARTRing<sup>2</sup> service (a.k.a. BellSouth Dedicated Ring) with 48 or less activated DS3s has 32,256 voice grade<sup>1</sup> (a.k.a. BellSouth SPA DS0 VG) equivalent channels. However, when an OC-48+ SMARTRing<sup>2</sup> 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<sup>1</sup> (a.k.a. BellSouth SPA DS0 VG) equivalent capacity of the DS3 channel. A DS3 has 672 voice grade<sup>1</sup> (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<sup>1</sup> (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.

#### **E7.4.9 Reserved For Future Use**

#### **E7.4.10 Reserved For Future Use**

#### **E7.4.11 Reserved For Future Use**

#### **E7.4.12 BellSouth SPA CNM - FlexServ Service**

##### **A. General**

BellSouth SPA CNM - FlexServ 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.

##### **1. Basic BellSouth SPA CNM - FlexServ service**

Basic BellSouth SPA CNM - FlexServ service includes monitoring and reconfiguration of the customer's private line services equipped with BellSouth SPA CNM - FlexServ service.

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 SPA CNM - FlexServ 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.

Reconfiguration provides the customer with the ability to direct the Company to connect or disconnect circuits equipped with BellSouth SPA CNM - FlexServ service options to or from each others of like kind at a central office or central offices where the customer has purchased BellSouth SPA CNM - FlexServ 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.

**Note 1:** Effective June 30, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after June 30, 2024.

**Note 2:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

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

### E7.4 Rate Regulations (Cont'd)

#### E7.4.14 SMARTRing<sup>®</sup> Service (a.k.a. BellSouth Dedicated Ring)

(C)

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

1. Monthly rates and charges as specified in E7.5.17 following apply for each SMARTRing<sup>®</sup> 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) rides the customer's host SMARTRing<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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 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<sup>®</sup> 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<sup>®</sup> 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 E7.5.17.A.4.

(M)

**Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

(N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(N)

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

### E7.4 Rate Regulations (Cont'd)

#### E7.4.14 SMARTRing<sup>1</sup> Service (a.k.a. BellSouth Dedicated Ring) Cont'd

- A. Self-healing Multi-nodal Alternate Route Topology Ring (Cont'd) (C)
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. (M1)
  5. When the customer orders an OC-1 SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) Overlay Ring Arrangement riding the customer's host OC-12, OC-48, or OC-48+ SMARTRing<sup>®</sup> 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. (M1)
  6. When the customer orders an OC-3 SMARTRing<sup>®</sup> 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<sup>®</sup> 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. (M1)
  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<sup>®</sup> 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. 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. (M1)
  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. (M2)
  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 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. (N)
- Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (N)
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

M1 Material appearing on this page previously appeared on page(s) 33.3.1 of this section.

M2 Material previously appearing on this page now appears on page(s) 33.3.3 of this section.

## E7. SPECIAL ACCESS (A.K.A. BELL SOUTH SPA) SERVICE

### E7.4 Rate Regulations (Cont'd)

#### E7.4.14 SMARTRing<sup>®2</sup> Service (a.k.a. BellSouth Dedicated Ring) (Cont'd)

- A. Self-healing Multi-nodal Alternate Route Topology Ring (Cont'd)
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 BellSouth SPA CNM - FlexServ service 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. (M1)
  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. (M1)
  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<sup>1, 2</sup>), Plan B (49-72 Months<sup>1, 2</sup>) or Plan C (73-96 Months<sup>1, 2</sup>). 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<sup>2</sup>), Plan B (37-60 Months<sup>1, 2</sup>) or Plan C (61-96 Months<sup>1, 2</sup>). Month-to-month arrangements (with a minimum of four months) are available for SMARTRing service (a.k.a. BellSouth Dedicated Ring). (M1)(C)
  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: (M1)
    - 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. (M1)
    - 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. (M1)
    - 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. (M2)

**Note 1:** All term plans for SMARTRing<sup>®</sup> Service which are established, renewed or extended after December 25, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates. (M1)

**Note 2:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

M1 Material appearing on this page previously appeared on page(s) 33.3.2 of this section.

M2 Material previously appearing on this page now appears on page(s) 33.3.4 of this section.

<sup>®</sup> Registered Service Mark of BellSouth Corporation

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

### E7.4 Rate Regulations (Cont'd)

#### E7.4.14 SMARTRing<sup>®</sup> Service (a.k.a. BellSouth Dedicated Ring) (Cont'd)

- A. Self-healing Multi-nodal Alternate Route Topology Ring (Cont'd)
15. The rates applicable to a month-to-month payment plan are subject to Company initiated charges. (M)
  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<sup>®</sup> 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. (M)
 

Termination liability charges for SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) TPP customers are applicable as specified in E2.4.9.C. preceding. (M)
  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. (M)
  18. The TPP customer of record will have a 60 day grace period after which month-to-month rates will apply. (M)
  19. Customers may upgrade from a lower capacity SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) to a higher capacity SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) without incurring any termination charges if the following conditions are met: (M)
    - a. the order for the upgraded SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) and the order for the disconnect of the existing SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) are received by the Company at the same time, (M)
    - b. the new SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) is provided between the same customer and Central Office locations as the discontinued SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring), (M)
    - c. the number of Channel Interfaces activated under the new capacity SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) is greater than the number of Channel Interfaces activated under the existing capacity SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring). (M)
    - d. the expiration date of the new SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) payment plan is subsequent to the payment plan of the ring being discontinued. (M)
  20. Customers may also upgrade existing SMARTRing<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) to a new SMARTRing<sup>®</sup> 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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring) and if the conditions set forth in 19. preceding are met. (M)
  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<sup>®</sup> service (a.k.a. BellSouth Dedicated Ring). (M)
  22. If the Service Establishment Date extends beyond one year from the customer's order date due to 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. (M)
- Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (N)
- Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

**E7. SPECIAL ACCESS (A.K.A. BELL SOUTH SPA) SERVICE**

**E7.4 Rate Regulations (Cont'd)**

**E7.4.32 BellSouth Metro Ethernet Service (Cont'd)<sup>1</sup>**

**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<sup>2</sup> service (a.k.a. BellSouth SPA Dedicated Ring). (C)  
 The customer is required to purchase the appropriate SMARTRing<sup>2</sup> 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. (C)  
 For such applications using SMARTRing<sup>2</sup> 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<sup>2</sup> 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). (C)  
 When the SMARTRing<sup>2</sup> 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. (C)  
 For BellSouth Metro Ethernet Service Connections utilizing the customer’s LightGate service or SMARTRing<sup>2</sup> service as alternate transport, the committed bandwidth for select speeds will be as shown in BellSouth Technical Reference TR-73632. (C)

<b><u>Metro Ethernet Connection</u></b>	<b><u>Metro Ethernet Backbone Bandwidth</u></b>
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 900 Mbps (Fixed)	1000 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

**Note 1:** Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

**Note 2:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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. (N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted. (N)

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

### E7.5 Rates and Charges (Cont'd)

#### E7.5.18 SMARTRing<sup>1</sup> service (a.k.a. BellSouth Dedicated Ring)

(C)

##### A. Self-healing Multi-nodal Alternate Route Topology Ring - Month-to-Month

	Month-to-Month	Nonrecurring Charge	USOC
1. Local Channel (All capacities except OC-1)			
(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	-	445.00	1HAXX
(b) Per Quarter Air Mile	1,500.00	-	1HAXX
3. Interoffice Channel (All capacities except OC-1)			
(a) Per Channel, except OC-192 and OC-192+ Capacity	-	135.00	1HXFX
(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
(e) Per Quarter Air Mile, OC-3 Capacity	45.00	-	1HXFX
(f) Per Quarter Air Mile, OC-3+, OC-12, OC-48 or OC-48+ Capacity	55.00	-	1HXFX
(g) Per Quarter Air Mile, OC-192 or OC-192+ Capacity	55.00	-	1HXFX
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
5. Customer Node (Per Customer Node)			
(a) OC-1 Capacity	800.00	425.00	SHNC4
(b) OC-3 Capacity	2,200.00	465.00	SHNC3
(c) OC-3+ Capacity	3,000.00	465.00	SHNN5
(d) OC-12 Capacity	3,400.00	460.00	SHNC1
(e) OC-48 Capacity	5,800.00	460.00	SHNN8
(f) OC-48+ Capacity	6,500.00	460.00	SHNN9
(g) OC-192 Capacity	25,000.00	640.00	SHNN6
(h) OC-192+ Capacity	25,000.00	640.00	SHNN2

**Note 1:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

(N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(N)



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

**E7.5 Rates and Charges (Cont'd)**

**E7.5.18 SMARTRing<sup>2</sup> service (a.k.a. BellSouth Dedicated Ring)**

(C)

- A. Self-healing Multi-nodal Alternate Route Topology Ring - Month-to-Month (Cont'd)
  - 6. Customer Channel Interface (Per Customer Node)

	<b>Month-to-Month</b>	<b>Nonrecurring Charge</b>	<b>USOC</b>
(a) Per DS1	35.00	240.00	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 <sup>1</sup> Backbone	500.00	800.00	SHN1J
(m) Per 100 Mbps (3 STS-1) BellSouth Metro Ethernet <sup>1</sup> Backbone	540.00	800.00	SHN33
(n) Per 1000 Mbps BellSouth Metro Ethernet <sup>1</sup> Backbone	740.00	850.00	SHN34
(o) Per Fractional 1000 Mbps Metro Ethernet <sup>1</sup> 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

**Note 1:** Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

**Note 2:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

(N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(N)

**E7. SPECIAL ACCESS (A.K.A. BELL SOUTH SPA) SERVICE**

**E7.5 Rates and Charges (Cont'd)**

**E7.5.18 SMARTRing<sup>2</sup> service (a.k.a. BellSouth Dedicated Ring) (Cont'd)**

(C)

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

7. Central Office Node (Per Central Office Node)

	Month-to-Month	Nonrecurring Charge	USOC
(a) OC-1 Capacity	\$600.00	\$420.00	SHNH4
(b) OC-3 Capacity	1,400.00	465.00	SHNH3
(c) OC-3+ Capacity	2,500.00	465.00	SHNH5
(d) OC-12 Capacity	2,600.00	460.00	SHNH1
(e) OC-48 Capacity	5,400.00	460.00	SHNH8
(f) OC-48+ Capacity	6,100.00	460.00	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
8. Central Office Channel Interface (Per Central Office Node)			
(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 <sup>1</sup> Backbone	500.00	800.00	SHNOJ
(q) Per 100 Mbps (3 STS-1) BellSouth Metro Ethernet <sup>1</sup> Backbone	540.00	800.00	SHNCX
(r) Per 1000 Mbps BellSouth Metro Ethernet <sup>1</sup> Backbone	740.00	850.00	SHNC5
(s) Per Fractional 1000 Mbps Metro Ethernet <sup>1</sup> Backbone			
- 150 Mbps (3 STS-1)	560.00	850.00	SHND5
- 300 Mbps (6 STS-1)	600.00	850.00	SHND6
- 450 Mbps (9 STS-1)	640.00	850.00	SHND7
- 600 Mbps (12 STS-1)	700.00	850.00	SHND8

**Note 1:** Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

**Note 2:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

(N)

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

(N)

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

**E7.5 Rates and Charges (Cont'd)**

**E7.5.18 SMARTRing<sup>2</sup> service (a.k.a. BellSouth Dedicated Ring) (Cont'd)**

**B. Self-healing Multi-nodal Alternate Route Topology Ring - Transport Payment Plan**

1. Local Channel (All capacities except OC-1)

		Per Month Rates			
		A	B	C	
		12-36	37-60	61-96	USOC
		Months <sup>2</sup>	Months <sup>1, 2</sup>	Months <sup>1, 2</sup>	
	(a) Per Quarter Air Mile	\$85.00	\$75.00	\$70.00	1HVXX
2.	Alternate Central Office (All capacities except OC-1)				
	(a) Per Quarter Air Mile	400.00	250.00	200.00	1HAXX
3.	Interoffice Channel (All capacities except OC-1)				
	(a) Fixed, OC-3 Capacity	40.00	35.00	30.00	1HXFX
	(b) Fixed, OC-3+, OC-12, OC-48 or OC-48+ Capacity	155.00	140.00	130.00	1HXFX
	(c) Fixed, OC-192 or OC-192+ Capacity	450.00	400.00	380.00	1HXFX
	(d) Per Quarter Air Mile, OC-3 Capacity	35.00	25.00	20.00	1HXFX
	(e) Per Quarter Air Mile, OC-3+, OC-12, OC-48 or OC-48+ Capacity	40.00	33.00	25.00	1HXFX
	(f) Per Quarter Air Mile, OC-192 or OC-192+ Capacity	40.00	33.00	25.00	1HXFX
4.	Internodal Channel (All capacities except OC-1)				
	(a) Per Internodal Channel, Same Wire Center Area, Per Quarter Air Mile	690.00	415.00	345.00	1HNXX
	(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
5.	Customer Node (Per Customer Node)				
	(a) OC-1 Capacity	400.00	350.00	300.00	SHNC4
	(b) OC-3 Capacity	1,100.00	1,000.00	900.00	SHNC3
	(c) OC-3+ Capacity	2,050.00	1,750.00	1,500.00	SHNN5
	(d) OC-12 Capacity	2,200.00	2,000.00	1,750.00	SHNC1
	(e) OC-48 Capacity	4,900.00	4,500.00	3,900.00	SHNN8
	(f) OC-48+ Capacity	4,900.00	4,500.00	3,900.00	SHNN9
	(g) OC-192 Capacity	9,375.00	8,250.00	7,300.00	SHNN6
	(h) OC-192+ Capacity	9,375.00	8,250.00	7,300.00	SHNN2

**Note 1:** All term plans for SMARTRing® Service which are established, renewed or extended after December 25, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

**Note 2:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

MS-21-0046

EFFECTIVE: December 1, 2021

## E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICES

### E7.5 Rates and Charges (Cont'd)

#### E7.5.18 SMARTRing<sup>3</sup> 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			
		A	B	C	
		12-36	37-60	61-96	
		Months <sup>3</sup>	Months <sup>1,3</sup>	Months <sup>1,3</sup>	USOC
(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 <sup>2</sup> Backbone	175.00	155.00	140.00	SHN1J
(m)	Per 100 Mbps (3 STS-1) BellSouth Metro Ethernet <sup>2</sup> Backbone	210.00	190.00	170.00	SHN33
(n)	Per 1000 Mbps BellSouth Metro Ethernet <sup>2</sup> Backbone	520.00	475.00	425.00	SHN34
(o)	Per Fractional 1000 Mbps Metro Ethernet <sup>2</sup> Backbone				
	- 150 Mbps (3 STS-1)	230.00	210.00	190.00	SHN35
	- 300 Mbps (6 STS-1)	300.00	280.00	260.00	SHN36
	- 450 Mbps (9 STS-1)	340.00	310.00	290.00	SHN37
	- 600 Mbps (12 STS-1)	380.00	340.00	320.00	SHN38
7.	Central Office Node (Per Central Office Node)				
(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
(j)	OC-12 Shared Node Interconnection	1,390.00	1,260.00	1,100.00	SHNHE
(k)	OC-48 Shared Node Interconnection	2,880.00	2,840.00	2,460.00	SHNHE
(l)	OC-48+ Shared Node Interconnection	2,880.00	2,840.00	2,460.00	SHNHE

**Note 1:** All term plans for SMARTRing<sup>®</sup> Service which are established, renewed or extended after December 25, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

**Note 2:** Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

**Note 3:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.

**E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICES**

**E7.5 Rates and Charges (Cont'd)**

**E7.5.18 SMARTRing<sup>3</sup> service (a.k.a. BellSouth Dedicated Ring) (Cont'd)**

**B. Self-healing Multi-nodal Alternate Route Topology Ring - Transport Payment Plan (Cont'd)**

**8. Central Office Channel Interface (Per Central Office Node)**

		Per Month Rates			
		A	B	C	
		12-36	37-60	61-96	
		Months <sup>3</sup>	Months <sup>1,3</sup>	Months <sup>1,3</sup>	USOC
(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 <sup>2</sup> Backbone	175.00	155.00	140.00	SHNOJ
(q)	Per 100 Mbps (3 STS-1) BellSouth Metro Ethernet <sup>2</sup> Backbone	210.00	190.00	170.00	SHNCX
(r)	Per 1000 Mbps BellSouth Metro Ethernet <sup>2</sup> Backbone	520.00	475.00	425.00	SHNC5
(s)	Per Fractional 1000 Mbps Metro Ethernet <sup>2</sup> Backbone				
	- 150 Mbps (3 STS-1)	230.00	210.00	190.00	SHND5
	- 300 Mbps (6 STS-1)	300.00	280.00	260.00	SHND6
	- 450 Mbps (9 STS-1)	340.00	310.00	290.00	SHND7
	- 600 Mbps (12 STS-1)	380.00	340.00	320.00	SHND8

**C. Self-healing Multi-nodal Alternate Route Topology Ring**

**1. Channel Interface Reallocation**

		Nonrecurring Charge	USOC
(a)	Per Node, Per Occurrence	\$245.00	SHRBC

**Note 1:** All term plans for SMARTRing<sup>®</sup> Service which are established, renewed or extended after December 25, 2013, for term lengths which are scheduled to expire at any time after February 1, 2019, will instead expire on February 1, 2019. All such services existing on or after February 1, 2019, will be provided on a month-to-month basis at the applicable, then current month-to-month rates.

**Note 2:** Effective on or after August 22, 2021, this Service will no longer be available for purchase by new or existing customers. In addition, requests to move, add, change, or renew 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 Monthly rates until the service is discontinued. The Company currently plans to discontinue this service on or after March 31, 2023.

**Note 3:** Effective on or after December 1, 2021, neither new nor existing customers will be permitted to purchase new SMARTRing Service (Service). In addition, (A) Service Payment Plans greater than 12-months in length will no longer be available; and (B) requests to move, add, change, upgrade, or downgrade existing service arrangements will not be accepted, with the following exceptions: (1) existing customers will be permitted to modify their existing Service and will be able to add new circuits to their existing Service, but will not be permitted to add new nodes in any locations; and (2) any such new circuits will be subject to the customer's existing term payment plan or term agreement for the Service to which they are added. 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.

Effective November 30, 2023, unless specified to the contrary in their existing Service agreements, existing customers may not renew Term Payment Plans or term agreements for Service. In addition, no move, add, or change orders of any type will be accepted.