

TARIFF DISTRIBUTION

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Approved

PURPOSE: Introduce new interface and transport capabilities for LightGate and
 SMARTRing services

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PRIVATE LINE SERVICES TARIFF

Fourth Revised Page 23.1
Cancels Third Revised Page 23.1

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Atlanta, Georgia

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B7. DIGITAL NETWORK SERVICE**B7.4 LightGate® Service****B7.4.1 General**

- A. LightGate® service is an intraLATA fiber optic based, digital service which provides channelization capability for the customer in packages based on systems consisting of DS1, DS3, STS-1, OC-3, OC-12, OC-48 and OC-192 channels. It will provide local channels and/or interoffice channels in the following system sizes:

- Asynchronous – LightGate® 1
- Synchronous - STS-1, OC-3, OC-12, OC-48 and OC-192 LightGate® service

Asynchronous systems are capable of transporting DS1 and DS3 channels. Synchronous systems are capable of transporting all channels. The capacity of each LightGate® service System is shown in the following table:

<u>LightGate® System</u>	<u>DS1</u>	<u>DS3</u>	<u>STS-1</u>	<u>OC-3</u>	<u>OC-12</u>	<u>OC-48</u>
LightGate® 1	28	1				
LightGate® STS-1	28		1			
LightGate® OC-3	84	3	3	1		
LightGate® OC-12	336	12	12	4	1	
LightGate® OC-48	1344	48	48	16	4	1
LightGate® OC-192	5376	192	192	64	16	4

- B. Channelization is provided by LightGate® service Systems which furnish fiber optic transport from the central office to a customer's premises. Channel interfaces are offered to provide individual DS1, DS3, STS-1, OC-3, OC-12, OC-48 and **1000 Mbps** channels. The customer may channelize all or part of a LightGate® service package to activate data facilities for interconnection with the exchange network, voice grade and data facilities for private line channels, as well as other LightGate® services. The customer may also choose not to channelize all or part of a LightGate® service package allowing direct connection to other LightGate® services, DS3 or DS1 services as provided in this Tariff or the General Subscriber Service Tariff. (OC-12, OC-48 and OC-192 LightGate® service local channel systems and OC-192 interoffice channel systems are only available as channelized.)

(C)

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B7. DIGITAL NETWORK SERVICE**B7.4 LightGate® Service (Cont'd)****B7.4.1 General (Cont'd)**

- C. Channel interface availability varies with system size and transport architecture (asynchronous vs. synchronous). The following table lists the channel interfaces available with each LightGate® service System.

Local Channel Systems:

	Asynchronous	Synchronous					
	LG1	STS-1	OC-3	OC-12	OC-48	OC-192	
Customer Channel Interfaces							
DS1	Yes	Yes	Yes	No	<i>Yes¹</i>	<i>Yes¹</i>	(C)
DS3	Yes	No	Yes	Yes	Yes	<i>Yes¹</i>	(C)
DS3 Asymmetrical with DS1	No	No	Yes	No	No	No	
STS-1	No	Yes	Yes	Yes	Yes	<i>Yes¹</i>	(C)
OC-3	No	No	Yes	Yes	Yes	Yes	
OC-12	No	No	No	No	Yes	Yes	
OC-48	No	No	No	No	No	Yes	
1000 Mbps	No	No	No	No	Yes ²	Yes ²	(N)
Central Office Channel Interfaces							
DS1	Yes	Yes	Yes	No	<i>Yes¹</i>	<i>Yes¹</i>	(C)
DS3	Yes	No	Yes	Yes	Yes	<i>Yes¹</i>	(C)
DS3 Asymmetrical with DS1	No	No	Yes	No	No	No	
STS-1	No	Yes	Yes	Yes	Yes	No	
OC-3	No	No	Yes	Yes	Yes	Yes	
OC-12	No	No	No	No	Yes	Yes	
OC-48	No	No	No	No	No	Yes	
28 DS1 Channel System	No	No	No	Yes	Yes	<i>Yes¹</i>	(C)
STS-1 Channel System	No	No	No	Yes	Yes	<i>Yes¹</i>	(C)
OC-3 Channel System	No	No	No	Yes	Yes	Yes	
OC-12 Channel System	No	No	No	No	No	Yes	
OC-48 Channel System	No	No	No	No	No	Yes	
1000 Mbps	No	No	No	No	Yes ²	Yes ²	(N)

Note 1: Available only for systems installed on or after October 30, 2003. The maximum number of DS1 circuits available in a system is 96. (M)
(N)

Note 2: Available only for systems installed on or after October 30, 2003 that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer. (N)

Material previously appearing on this page now appears on page(s) 23.3 of this section.

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B7. DIGITAL NETWORK SERVICE**B7.4 LightGate® Service (Cont'd)****B7.4.1 General (Cont'd)****C.** (Cont'd)

Interoffice Channel Systems:

	Asynchronous	Synchronous					
	LG1	STS-1	OC-3	OC-12	OC-48	OC-192	
Central Office Channel Interfaces							(M)
DS1	No	No	No	No	No	No	(M)
DS3	Yes	No	Yes	Yes	Yes	<i>Yes¹</i>	(C)(M)
STS-1	No	Yes	Yes	Yes	Yes	<i>Yes¹</i>	(C)(M)
OC-3	No	No	Yes	Yes	Yes	Yes	(M)
OC-12	No	No	No	Yes	Yes	Yes	(M)
OC-48	No	No	No	No	Yes	Yes	(M)
28 DS1 Channel System	Yes	No	Yes	Yes	Yes	<i>Yes¹</i>	(C)(M)
STS-1 Channel System	No	Yes	Yes	Yes	Yes	<i>Yes¹</i>	(C)(M)
OC-3 Channel System	No	No	Yes	Yes	Yes	Yes	(M)
OC-12 Channel System	No	No	No	No	No	Yes	(M)
OC-48 Channel System	No	No	No	No	No	Yes	(M)
1000 Mbps	No	No	No	No	Yes ²	Yes ²	(N)

Note 1: Available only for systems installed on or after October 30, 2003. The maximum number of DS1 circuits available in a system is 96. (N)

Note 2: Available only for systems installed on or after October 30, 2003 that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer. (N)

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B7. DIGITAL NETWORK SERVICE**B7.4 LightGate® Service (Cont'd)****B7.4.1 General (Cont'd)**

- R.** The technical specifications and standard network interfaces for LightGate® service, are contained in BellSouth Technical Reference #73501. This publication is available from BellSouth Telecommunications, Inc., Documentation Operations, North W5A1, 3535 Colonnade Parkway, Birmingham, Alabama 35243.

B7.4.2 Application of Rates

- A.** Monthly rates and charges as specified in B7.4.5 following apply for each LightGate® service. These rates apply regardless of the number of circuit equivalents within each package that are actually activated by the customer at a point in time.
1. Local channel systems furnished between a Serving Wire Center and the customer's premises are distance sensitive. Local channel systems include the transport common equipment, and first half air-mile of local channel facilities at rates specified in B7.4.5.A. following. Rates for additional lengths of local channel facilities are as specified in B7.4.5.B. following.
 2. Separate Alternate Facility Transport (SAFT) options for LightGate® service local channels are offered at the rates specified in B7.4.5.C. following. These rates are in addition to local channel system rates.
 3. Interoffice channel system mileage rates and charges are as specified in B7.4.5.D. following.
- B.** All usual and applicable Service Connection Charges and Nonrecurring Charges as specified in other tariffs apply to the activation, move or change of channel equivalents within LightGate® service packages as well as for installation of the basic system. Suspension of service is not permitted with LightGate® service.
- C.** Channel interfaces are required for LightGate® service based upon the following guidelines:
1. Channel interfaces are required at both the customer's location and the serving wire center for LightGate® service local channel systems and at both termination points of a LightGate® service interoffice channel, except as specified in 2. following.
 2. A LightGate® service central office channel interface is not required for a synchronous LightGate® service local channel system with optical termination in the serving wire center. A LightGate® service local channel system with optical termination in the serving wire center may connect in one of the following ways:
 - to another LightGate® service local channel or interoffice channel at the compatible optical level,
 - to a SMARTRing® service channel interface (CI) at the compatible optical level, or
 - to a compatible optical level channel interface from a higher level LightGate® service local channel or interoffice channel.
 3. LightGate® service channel interfaces are only offered in conjunction with a LightGate® service System.
 4. Company provided DS1 customer channel interfaces are offered with LightGate® 1, LightGate® STS-1 and LightGate® OC-3 Basic Systems. *Also, a maximum of 96 DS1 customer channel interfaces are available on LightGate® OC-48 and LightGate® OC-192 Basic Systems installed on or after October 30, 2003.* (C)
 5. OC-12 and OC-48 LightGate® service local channel systems require a 28 DS1, STS-1, or OC-3 channel system in addition to DS1 channel interfaces in the central office to derive DS1 channels in the serving wire center. OC-192 LightGate® service local channel systems require an OC-3 channel system in addition to DS1 channel interfaces to terminate DS1 channels in the serving wire center.
 6. OC-192 LightGate® service local channel systems, *installed prior to October 30, 2003*, require an OC-3, OC-12 or OC-48 channel system in addition to DS3 or STS-1 channel interfaces to terminate DS3 or STS-1 channels in the serving wire center. (C)
 7. OC-3 LightGate® service local channel systems which require a DS3 termination at one location and DS1 terminations at the other, have two options available:
 - A DS3 channel interface at the customer location and a 28 DS1 channel system in addition to DS1 channel interfaces at the serving wire center, or
 - A DS3 (asymmetrical with DS1) interface at one termination point and DS1 channel interfaces at the other termination point.

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B7. DIGITAL NETWORK SERVICE**B7.4 LightGate® Service (Cont'd)****B7.4.4 Rates and Charges (Obsoleted. See Section B107.) (Cont'd)****B7.4.5 Rates and Charges****A. LightGate® service Local Channel Systems**

The Basic System includes photonic common equipment and first one-half air mile of local channel fiber optic facilities.

1. LightGate® 1 Basic System¹

		Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC
	(a) Per System	\$300.00	\$2,070.00	\$1,590.00	\$1,440.00	\$1,290.00	HFSC7
2.	LightGate® STS-1 Basic System¹						
	(a) Per System	700.00	2,070.00	1,590.00	1,440.00	1,290.00	HFST1
3.	LightGate® OC-3 Basic System¹						
	(a) Per System	700.00	3,700.00	3,100.00	2,800.00	2,500.00	HFSO3
	(b) Per System with Optical Customer Termination	700.00	2,432.00	1,968.00	1,776.00	1,584.00	HFSOC
	(c) Per System with Optical Serving Wire Center Termination	700.00	2,432.00	1,968.00	1,776.00	1,584.00	HFSOW
4.	LightGate® OC-12 Basic System¹						
	(a) Per System	700.00	5,500.00	5,100.00	4,600.00	4,150.00	HFS12
	(b) Per System with Optical Customer Termination	700.00	3,840.00	3,504.00	3,200.00	2,880.00	HFS1C
	(c) Per System with Optical Serving Wire Center Termination	700.00	3,840.00	3,504.00	3,200.00	2,880.00	HFS1W
5.	LightGate® OC-48 Basic System¹						
	(a) Per System	700.00	13,000.00	11,000.00	10,000.00	9,000.00	HFS48
	(b) Per System with Optical Customer Termination	700.00	8,000.00	7,040.00	6,400.00	5,760.00	HFS4C
	(c) Per System with Optical Serving Wire Center Termination	700.00	8,000.00	7,040.00	6,400.00	5,760.00	HFS4W
6.	LightGate® OC-192 Basic System¹						
	(a) Per System	700.00	26,000.00	20,000.00	18,000.00	16,000.00	HFST2 (R)

Note 1: Month to month rates are only available at the end of a contract rate period.

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B7. DIGITAL NETWORK SERVICE**B7.4 LightGate® Service (Cont'd)****B7.4.5 Rates and Charges (Cont'd)****A. LightGate® service Local Channel Systems (Cont'd)**

The Basic System includes photonic common equipment and first one-half air mile of local channel fiber optic facilities.

7. Central Office Channel Interfaces

		Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC
(a)	Per DS1	\$125.00	\$24.00	\$20.00	\$17.00	\$16.00	1PQE8
(b)	Per DS3	125.00	115.00	95.00	90.00	85.00	1PQE3
(c)	Per DS3 (Asymmetrical with DS1 on OC-3 Local Channel System)	290.00	500.00	390.00	365.00	350.00	1PQEG
(d)	Per STS-1	125.00	175.00	140.00	130.00	120.00	1PQE4
(e)	Per OC-3 (2 Fiber)	200.00	240.00	190.00	175.00	160.00	1PQE5
(f)	Per OC-3 (4 Fiber)	200.00	425.00	330.00	300.00	270.00	1PQE6
(g)	Per OC-12 (2 Fiber)	360.00	640.00	495.00	450.00	405.00	1PQEE
(h)	Per OC-12 (4 Fiber)	400.00	1,280.00	990.00	900.00	810.00	1PQED
(i)	Per OC-48 (2 Fiber)	500.00	1,600.00	1,325.00	1,215.00	1,050.00	1PQEO
(j)	Per OC-48 (4 Fiber)	500.00	3,200.00	2,650.00	2,430.00	2,100.00	1PQEF
(k)	Per 28 DS1 Channel System	125.00	600.00	490.00	465.00	450.00	MQ3CO
(l)	Per DS1 on 28 DS1 Channel System	125.00	15.00	8.00	7.00	6.00	1PQEA
(m)	Per STS-1 Channel System	125.00	600.00	490.00	465.00	450.00	1PQE7
(n)	Per OC-3 Channel System	125.00	1,325.00	1,100.00	1,000.00	900.00	1PQE9
(o)	Per OC-12 Channel System	125.00	2,650.00	2,200.00	2,000.00	1,800.00	1PQ12
(p)	Per OC-48 Channel System	125.00	5,490.00	4,410.00	4,050.00	3,510.00	1PQ48
(q)	Per 1000 Mbps ¹	400.00	740.00	520.00	475.00	425.00	1PQEK

(N)

8. Customer Channel Interfaces

(a)	Per DS1	170.00	24.00	20.00	17.00	16.00	1PQF1
(b)	Per DS3	125.00	115.00	95.00	90.00	85.00	1PQF3
(c)	Per DS3 (Asymmetrical with DS1 on OC-3 Local Channel System)	280.00	500.00	390.00	365.00	350.00	1PQFG
(d)	Per STS-1	125.00	240.00	195.00	185.00	175.00	1PQF4
(e)	Per OC-3 (2 Fiber)	125.00	240.00	190.00	175.00	160.00	1PQF5
(f)	Per OC-3 (4 Fiber)	125.00	475.00	380.00	350.00	320.00	1PQF6
(g)	Per OC-12 (2 Fiber)	275.00	715.00	570.00	525.00	480.00	1PQF8
(h)	Per OC-12 (4 Fiber)	275.00	1,430.00	1,140.00	1,050.00	960.00	1PQF7
(i)	Per OC-48 (2 Fiber)	300.00	1,600.00	1,325.00	1,215.00	1,050.00	1PQF2
(j)	Per OC-48 (4 Fiber)	300.00	3,200.00	2,650.00	2,430.00	2,100.00	1PQFO
(k)	Per 1000 Mbps ¹	400.00	740.00	520.00	475.00	425.00	1PQFK

(N)

(T)

B. LightGate® service Local Channel Mileage²**1. Mileage for all LightGate® service Local Channel Systems**

(a)	First one-half mile (included in system charge)						NA
(b)	Each additional one-half mile	NA	225.00	190.00	170.00	150.00	1LPEA

Note 1: Available only for systems installed on or after October 30, 2003 that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer. (N)

Note 2: Month to month rates are only available at the end of a contract rate period. (T)

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B7. DIGITAL NETWORK SERVICE**B7.4 LightGate® Service (Cont'd)****B7.4.5 Rates and Charges (Cont'd)**

D. Interoffice Channels (Cont'd) (These channels are furnished between central offices. Rates are based upon airline distance between central offices.)

6. LightGate OC-192 service¹

a. Per OC-192

(1) 0-8 miles

	Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC	
(a) Fixed	\$190.00	\$19,000.00	\$15,500.00	\$13,800.00	\$12,500.00	1LPS8	(R)
(b) Per Mile	-	600.00	500.00	450.00	400.00	1LPE8	
(2) 9-25 miles							
(a) Fixed	190.00	19,900.00	15,900.00	14,200.00	12,700.00	1LPS9	(R)
(b) Per Mile	-	600.00	500.00	450.00	400.00	1LPE9	
(3) Over 25 miles							
(a) Fixed	190.00	22,000.00	17,700.00	15,800.00	14,100.00	1LPS6	(R)
(b) Per Mile	-	600.00	500.00	450.00	400.00	1LPE6	

7. Central Office Channel Interfaces

(a) Per DS1	125.00	24.00	20.00	17.00	16.00	1PQE8	
(b) Per DS3	125.00	115.00	95.00	90.00	85.00	1PQE3	
(c) Per STS-1	125.00	175.00	140.00	130.00	120.00	1PQE4	
(d) Per OC-3 (2 Fiber)	200.00	240.00	190.00	175.00	160.00	1PQE5	
(e) Per OC-3 (4 Fiber)	200.00	425.00	330.00	300.00	270.00	1PQE6	
(f) Per OC-12 (2 Fiber)	360.00	640.00	495.00	450.00	405.00	1PQEE	
(g) Per OC-12 (4 Fiber)	400.00	1,280.00	990.00	900.00	810.00	1PQED	
(h) Per OC-48 (2 Fiber)	500.00	1,600.00	1,325.00	1,215.00	1,050.00	1PQEO	
(i) Per OC-48 (4 Fiber)	500.00	3,200.00	2,650.00	2,430.00	2,100.00	1PQEF	
(j) Per 28 DS1 Channel System	125.00	600.00	490.00	465.00	450.00	MQ3CO	
(k) Per DS1 on 28 DS1 Channel System	125.00	15.00	8.00	7.00	6.00	1PQEA	
(l) Per STS-1 Channel System	125.00	600.00	490.00	465.00	450.00	1PQE7	
(m) Per OC-3 Channel System	125.00	1,325.00	1,100.00	1,000.00	900.00	1PQE9	
(n) Per OC-12 Channel System	125.00	2,650.00	2,200.00	2,000.00	1,800.00	1PQ12	
(o) Per OC-48 Channel System	125.00	5,490.00	4,410.00	4,050.00	3,510.00	1PQ48	
(p) Per 1000 Mbps ²	400.00	740.00	520.00	475.00	425.00	1PQEK	(N)

E. Concatenation Rearrangement Charge

1. Per OC-3, OC-12 or OC-48 optical circuit rearranged as concatenated or non-concatenated subsequent to the initial installation of the circuit

	Nonrecurring Charge		USOC
	Initial	Subsequent	
(a) Per circuit	\$-	\$500.00	NRCCN

F. C-Bit Parity

1. Per DS3 circuit rearranged to have C-Bit Parity added or removed subsequent to the initial installation of the circuit.

(a) Per circuit	-	500.00	NRCCB
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Note 1: Month to month rates are only available at the end of a contract rate period.

Note 2: Available only for systems installed on or after October 30, 2003 that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer. (N)

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B7. DIGITAL NETWORK SERVICE**B7.5 MegaLink® ISDN Service (Obsoleted. See Section B107.) (Cont'd)****B7.6 Reserved for Future Use****B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing®) Service****B7.7.1 General**

- A. SMARTRing® service 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 and/or OC-48 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 and/or OC-48 service quality, detect any failure within the system, and automatically self-heal itself around a point of failure to ensure the flow of DS1, DS3, STS-1, OC-3, OC-12 and/or OC-48 Services between locations within the self-healing network. For locations where a customer requests SMARTRing service and facilities are not available, construction charges will apply as set forth in Section B5. preceding for cases involving extraordinary cost.
- B. SMARTRing® service is available at OC-3, OC-3+, OC-12, OC-48, OC-48+, **OC-192** and OC-192+ capacities. (C)
- OC-3 SMARTRing service is available as an individual service or in an Overlay Ring Arrangement riding the customer's host OC-12, OC-48, OC-48+, **OC-192** or OC-192+ SMARTRing service. OC-3 SMARTRing service provides an equivalent capacity of 3 DS3s, or any combination thereof not to exceed an OC-3 capacity. (C)
- Channel Interface Capacity Reallocation allows the customer to reallocate channel interfaces on a node subsequent to the initial installation of the channel interfaces.
- OC-3+ SMARTRing service is available as an individual service, or in combination with OC-12 SMARTRing, or in an Overlay Ring Arrangement riding the customer's host OC-48, OC-48+, **OC-192** or OC-192+ SMARTRing service. OC-3+ SMARTRing service 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. (C)
- When a customer orders OC-3+ SMARTRing service in combination with OC-12 SMARTRing service, capacity and channel interface availability at each Customer Node and Central Office Node location is determined by the size node ordered by the customer.
- OC-12 SMARTRing service is available as an individual service, or in combination with OC-3+ SMARTRing service, or in an Overlay Ring Arrangement riding the customer's host OC-48, OC-48+, **OC-192** or OC-192+ SMARTRing service. OC-12 SMARTRing service provides an equivalent capacity of 12 DS3s. (C)
- OC-48 SMARTRing service is available as an individual service, or with overlaying rings in capacities of OC-3, OC-3+ and/or OC-12, or in an Overlay Ring Arrangement riding the customer's **OC-192 or** OC-192+ SMARTRing service. OC-48 SMARTRing service provides an equivalent capacity of 48 DS3s. (C)
- OC-48+ SMARTRing service is available as an individual bi-directional service, or with overlaying rings in capacities of OC-3, OC-3+ and/or OC-12, or in an Overlay Ring Arrangement riding the customer's OC-192+ SMARTRing service. It provides equivalent capacity of 24 DS3s between consecutive node locations on the ring. The maximum capacity of the OC-48+ SMARTRing service is determined by the number of Customer and Central Office nodes on the ring.
- OC-192 SMARTRing service is available as an individual service, or with overlaying rings in capacities of OC-3, OC-3+, OC-12 and/or OC-48. OC-192 SMARTRing service provides an equivalent capacity of 192 DS3s. (N)
- OC-192+ SMARTRing service is available as an individual bi-directional service, or with overlaying rings in capacities of OC-3, OC-3+, OC-12, OC-48 and/or OC-48+. It provides equivalent capacity of 96 DS3s between consecutive node locations on the ring. The maximum capacity of the OC-192+ SMARTRing service is determined by the number of Customer and Central Office nodes on the ring.

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B7. DIGITAL NETWORK SERVICE**B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing®) Service (Cont'd)****B7.7.1 General (Cont'd)****B. (Cont'd)**

SMARTRing® service Channel Interfaces are available as follows:

<u>Channel Interfaces</u>	<u>NODES</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	No ¹	Yes ¹	No ¹	Yes	No ¹	(C)
DS3	Yes	Yes	Yes	Yes	Yes	Yes	Yes ¹	(C)
STS-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes ¹	(C)
OC-3	No	No	Yes	Yes	Yes	Yes	Yes	(C)
OC-12	No	No	No	Yes	Yes	Yes	Yes	(C)
OC-48	No	No	No	No	No	Yes	Yes	(C)
28 DS1 Channel System (DS3)	Yes	Yes	Yes	Yes	Yes	Yes	Yes ²	(C)
28 DS1 Channel System (STS-1)	Yes	Yes	Yes	Yes	Yes	Yes	Yes ²	(C)
DS3 (Asymmetrical with DS1)	Yes	Yes	No	No	No	No	No	(C)
DS1 Within an STS-1 Asymmetrical Arrangement	Yes	Yes	No	No	No	No	No	(C)
1000 Mbps	No	No	No	Yes ²	Yes ²	Yes	Yes ²	(N)

SMARTRing service OC-3, OC-12, or OC-48 channel interfaces are associated with optical circuits within a SMARTRing service arrangement. These optical circuits may be provisioned as concatenated. When an optical circuit is provisioned as concatenated, the multiple STS-1s within the optical circuit are provided as a single entity with a single overhead channel.

SMARTRing service interfaces may be ordered as asymmetrical (i.e., a circuit enters one node at a lower level interface and exits at another node at a higher level interface) For example, a customer may have a service that connects to a ring via an OC-3 interface at a node. That service is then transported around the ring and connects via an OC-12 interface to another of the customer's services. The allowable asymmetrical interface arrangements for the various ring sizes are as shown in Technical Reference TR-73582.

The DS3 (Asymmetrical with DS1) interface allows a customer to aggregate DS1s originating from multiple nodes on a ring into a single DS3 interface at a designated node. A DS3 (Asymmetrical with DS1) interface has the capacity to aggregate 28 DS1s.

The DS1 within an STS-1 Asymmetrical Arrangement interface rate element applies in lieu of the STS-1 interface for the higher level termination of an asymmetrical arrangement when the lower level interface is a DS1.

SMARTRing service Overlay Ring Arrangements are available as follows:

<u>OVERLAYING SMARTRing Service</u>	<u>Host SMARTRing Service</u>					
	<u>OC-12</u>	<u>OC-48</u>	<u>OC-48+</u>	<u>OC-192</u>	<u>OC-192+</u>	
OC-3	X	X	X	X	X	(C)
OC-3+		X	X	X	X	(C)
OC-12		X	X	X	X	(C)
OC-48				X	X	(C)
OC-48+					X	(C)

Note 1: DS1 interfaces are available via OC-3, OC-3+ or 28 DS1 Channel System arrangements only for OC-12, OC-48+ and OC-192+ nodes and for OC-48, OC-48+ and OC-192+ SMARTRing service Nodes installed prior to October 30, 2003. For OC-48 and OC-192 nodes, installed on or after that date, DS1 interfaces are available with a maximum quantity per node of 96. (C)

Note 2: DS3, STS-1, channel systems and 1000 Mbps interfaces are only available for nodes installed after October 30, 2003. 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer. (N)

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B7. DIGITAL NETWORK SERVICE**B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing®) Service (Cont'd)****B7.7.2 Application of Rates (Cont'd)****G. (Cont'd)****7. (Cont'd)**

In addition, termination liability charges are also waived for upgrades to SMARTRing® services, under the terms and conditions set forth in B2.4.9 preceding. Specific requirements must be satisfied in order for charges to be waived as follows:

- a. Nonrecurring charges set forth in B3.3 of this Tariff will be waived when a customer reconfigures existing Company provided network services that are groomed or rolled over onto a new SMARTRing® service or upgraded from existing SMARTRing® service.
- b. The customer's SMARTRing® service, to which the network services are reconfigured, must be ordered under a CSPP. However, individual DS1 and/or DS3 channel interfaces associated with SMARTRing® service may be provided under month-to-month terms if the existing services were provided under month-to-month rates.
- c. Special promotional waivers will be processed as projects for each customer designated location, and all associated connect and disconnect orders must be placed at the same time. Reconfiguration work must be completed within twelve months of the customer order date. Only one reconfiguration plan will be permitted per customer location.
- d. Special promotional waivers shall not apply when the service is moved by the customer from one location to another.
- e. In the event the SMARTRing® service is disconnected at the customer's request prior to the expiration of the CSPP, full nonrecurring charges associated with ring level billing will apply.

H. SMARTRing® service Local Channel, Alternate Central Office Channel and Internodal Channel rates are 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 F.C.C. 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. For channels which are less than one quarter mile, a minimum charge of one quarter mile applies.

I. The SMARTRing® service 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 F.C.C. 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. For channels which are less than one quarter mile, a minimum charge of one quarter mile applies.

B7.7.3 Architecture**A. SMARTRing® Service**

The SMARTRing® service configuration utilizes a multi-nodal ring architecture which is specified jointly by the Company and the customer. The minimum configuration provides dedicated DS3 (44.736 Mbps) and/or DS1 digital services and must include at least three nodes. One node must be a Central Office Node in Company Central Office. The remaining two nodes may be either Central Office Nodes in a Company Central Offices or Customer Nodes at customer designated locations, or one of each. Additional nodes above the three node minimum may be any combination thereof. The maximum number of nodes will be determined based on equipment capability. The nodes are connected by SMARTRing® service Local Channels, Alternate Central Office Channels, Interoffice Channels and Internodal Channels as applicable. SMARTRing® service may be connected to other high capacity services only at Central Office Nodes.

Applicable rate elements for this service are:

- Customer Nodes provide ring switching capabilities at customer designated locations other than Telephone Company Premises that are part of SMARTRing service. This rate element offers OC-3, OC-3+, OC-12, OC-48, OC-48+, **OC-192** or OC-192+ network capacities. A summary of the channel interfaces available with each node are specified in B7.7.1 preceding.

(C)

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B7. DIGITAL NETWORK SERVICE**B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing®) Service (Cont'd)****B7.7.3 Architecture (Cont'd)****A. SMARTRing® Service (Cont'd)**

- Customer Channel Interface provides DS1, DS3, STS-1, OC-3, OC-12, OC-48 and/or **1000 Mbps** connectivity that may take place at each Customer Node of SMARTRing service. The Customer Channel Interface rate element applies for every interface capacity that originates or terminates at a Customer Node. (C)
- Central Office Node provides ring switching capabilities at Company Central Offices that are a part of SMARTRing service. This rate element offers OC-3, OC-3+, OC-12, OC-48, OC-48+, **OC-192** or OC-192+ network capacities. A summary of the channel interfaces available with each node are specified in B7.7.1 preceding. (C)
- Central Office Channel Interface provides DS1, DS3, STS-1, OC-3, OC-12, OC-48 and/or **1000 Mbps** connectivity that may take place at each Central Office Node located on SMARTRing service. The Central Office Channel Interface rate element applies for every interface capacity that originates or terminates at a Central Office Node. 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. STS-1 interfaces may only connect to other compatible STS-1 services. (C)
- Local Channel (at least one for each Customer Node which is directly connected to the serving wire center), provides for the communications path between a Customer Node and the serving wire center of the premises where located.
- Local Channel (at least one for each Customer Node which is directly connected to the serving wire center), provides for the communications path between a Customer Node and the serving wire center of the premises where located.
- Alternate Central Office Channel (at least one for each Customer Node which is directly connected to an Alternate Central Office), provides for the communications path, where requested, between a Customer Node and an Alternate Central Office.
- Interoffice Channel (one for each path between each two directly connected Company Central Offices), provides for the communications path between directly connected Company Central Offices located on a SMARTRing service.
- Internodal Channel (one for each path between two directly connected Customer Nodes), provides for the communications path, where requested, between two directly connected Customer Nodes 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.
- Channel Interface Capacity Reallocation (one per node per occurrence), allows the customer to reallocate channel interfaces on a node subsequent to the initial installation of the channel interfaces. For example, a customer may initially allocate, activated or spare, eighty-four DS1s at each node on the ring and may subsequently request Channel Interface Capacity Reallocation to drop one DS3 and fifty-six DS1s at each node, or other combination of DS3s and/or DS1s equivalent to an OC-3 Network Capacity.
- SMARTRing service OC-3, OC-12, or OC-48 channel interfaces are associated with optical circuits within a SMARTRing service arrangement. These optical circuits may be provisioned as concatenated. When an optical circuit is provisioned as concatenated, the multiple STS-1s within the optical circuit are provided as a single entity with a single overhead channel.
- SMARTRing service interfaces may be ordered as asymmetrical (i.e., a circuit enters one node at a lower level interface and exits at another node at a higher level interface) For example, a customer may have a service that connects to a ring via an OC-3 interface at a node. That service is then transported around the ring and connects via an OC-12 interface to another of the customer's services. The allowable asymmetrical interface arrangements for the various ring sizes are as shown in Technical Reference TR-73582.

B7.7.4 Rates and Charges**A. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing® Service)**

1. Local Channel Mileage Rates
(All Capacities)

		Nonrecurring	Month	24 to	49 to	73 to	
		Charge	To	48	72	96	
		Month	Month	Months	Months	Months	USOC
(a)	Per Local Channel	\$500.00	\$-	\$-	\$-	\$-	1HVXX
(b)	Per quarter air mile	-	105.00	\$83.00	\$73.00	\$68.00	1HVAX

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B7. DIGITAL NETWORK SERVICE**B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing®) Service (Cont'd)****B7.7.4 Rates and Charges (Cont'd)****A. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing® Service) (Cont'd)**

2. Alternate Central Office Channel Mileage Rates
(All capacities)

		Nonrecurring Charge \$500.00	Month to Month \$-	24 to 48 Months \$-	49 to 72 Months \$-	73 to 96 Months \$-	USOC 1HAXX	
	(a) Alternate C.O. Channel, per channel							
	(b) Per quarter air mile	-	685.00	280.00	175.00	140.00	1HAAX	
3.	Interoffice Channel Mileage Rates							
	(a) Fixed, OC-3 capacity	200.00	50.00	36.00	32.00	27.00	1HXFX	
	(b) Fixed, OC-12 capacity	200.00	145.00	130.00	115.00	105.00	1HXFX	
	(c) Per quarter air mile (OC-3 capacity)	-	55.00	36.00	30.00	23.00	1HXAX	
	(d) Per quarter air mile (OC-12 capacity)	-	55.00	36.00	30.00	23.00	1HXAX	
	(e) Fixed, OC-3+ capacity	200.00	145.00	130.00	115.00	105.00	1HXFX	
	(f) Fixed, OC-48 and OC-48+ capacity	200.00	340.00	270.00	260.00	250.00	1HXFX	
	(g) Fixed, OC-192 and OC-192+ capacity	200.00	770.00	635.00	610.00	590.00	1HXFX	(C)
	(h) Per quarter air mile (OC-3+ capacity)	-	55.00	36.00	30.00	23.00	1HXAX	
	(i) Per quarter air mile (OC-48 and 48+ capacity)	-	55.00	36.00	30.00	23.00	1HXAX	
	(j) Per quarter air mile (OC-192 and OC192+ capacity)	-	55.00	36.00	30.00	23.00	1HXAX	(C)
4.	Internodal Channel Mileage Rates (All Capacities)							
	(a) Per Internodal Channel, Same Wire Center area	500.00	-	-	-	-	1HNXX	
	(b) Per quarter air mile, Same Wire Center	-	1,795.00	690.00	415.00	345.00	1HNWX	
	(c) Per Internodal Channel, Same Office Park/Campus Environment in Contiguous Serving Wire Center areas	500.00	-	-	-	-	1HNZX	
	(d) Per quarter air mile, same Office Park/Campus Environment in contiguous Serving Wire Center areas	-	2,000.00	780.00	465.00	390.00	1HNCX	
5.	Customer Node (per Node)							
	(a) OC-3 capacity	430.00	2,300.00	990.00	900.00	810.00	SHNC3	
	(b) OC-3+ capacity	430.00	2,700.00	1,845.00	1,575.00	1,350.00	SHNN5	
	(c) OC-12 capacity	460.00	3,590.00	1,980.00	1,800.00	1,575.00	SHNC1	
	(d) OC-48 capacity	460.00	5,220.00	4,410.00	4,050.00	3,510.00	SHNN8	
	(e) OC-48+ capacity	460.00	5,850.00	4,410.00	4,050.00	3,510.00	SHNN9	
	(f) OC-192 capacity	540.00	25,000.00	9,375.00	8,250.00	7,300.00	SHNN6	(N)
	(g) OC-192+ capacity	540.00	25,000.00	9,375.00	8,250.00	7,300.00	SHNN2	(T)(R)

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B7. DIGITAL NETWORK SERVICE**B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing®) Service (Cont'd)****B7.7.4 Rates and Charges (Cont'd)****A. Self-healing Multi-nodal Alternate Route Topology Ring (SMARTRing® Service) (Cont'd)****6. Customer Channel Interface (per Node)**

		Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC	
	(a) Per DS1	\$185.00	\$45.00	\$34.00	\$27.00	\$25.00	SHNBB	
	(b) Per DS3	145.00	170.00	135.00	130.00	125.00	SHNZT	
	(c) Per STS-1	190.00	220.00	170.00	150.00	140.00	SHN13	
	(d) Per OC-3, 2 fiber	190.00	255.00	190.00	170.00	160.00	SHN1D	
	(e) Per OC-3, 4 fiber	190.00	515.00	380.00	340.00	320.00	SHN15	
	(f) Per OC-12, 2 fiber	340.00	745.00	515.00	475.00	440.00	SHN1F	
	(g) Per OC-12, 4 fiber	340.00	1,490.00	1030.00	950.00	880.00	SHN19	
	(h) Per OC-48, 2 fiber	420.00	1,600.00	1,325.00	1,215.00	1,050.00	SHN1A	
	(i) Per OC-48, 4 fiber	420.00	3,200.00	2,650.00	2,430.00	2,100.00	SHN1B	
	(j) Per DS1 within an STS-1 Asymmetrical Arrangement	330.00	25.00	22.00	20.00	18.00	SHNBS	
	(k) Per DS3 (Asymmetrical with DS1)	360.00	550.00	450.00	400.00	350.00	SHN1T	
	(l) Per 1000 Mbps	400.00	740.00	520.00	475.00	425.00	SHN1K	(N)
7.	Central Office Node (per Node)							
	(a) OC-3 capacity	400.00	1,400.00	990.00	900.00	810.00	SHNH3	
	(b) OC-3+ capacity	400.00	2,250.00	1,845.00	1,575.00	1,350.00	SHNH5	
	(c) OC-12 capacity	460.00	2,680.00	1,980.00	1,800.00	1,575.00	SHNH1	
	(d) OC-48 capacity	460.00	4,860.00	4,410.00	4,050.00	3,510.00	SHNH8	
	(e) OC-48+ capacity	460.00	5,490.00	4,410.00	4,050.00	3,510.00	SHNH9	
	(f) OC-192 capacity	540.00	25,000.00	9,375.00	8,250.00	7,300.00	SHNH7	(N)
	(g) OC-192+ capacity	540.00	25,000.00	9,375.00	8,250.00	7,300.00	SHNH6	(T)(R)
8.	Central Office Channel Interface (per Central Office Node)							
	(a) Per DS1	145.00	40.00	30.00	25.00	20.00	SHNCB	
	(b) Per DS3	210.00	115.00	85.00	80.00	75.00	SHNYT	
	(c) Per STS-1	210.00	150.00	105.00	100.00	90.00	SHNO2	
	(d) Per OC-3, 2 fiber	340.00	255.00	190.00	170.00	160.00	SHNCD	
	(e) Per OC-3, 4 fiber	340.00	515.00	380.00	340.00	320.00	SHNO4	
	(f) Per OC-12, 2 fiber	535.00	745.00	515.00	475.00	440.00	SHNCF	
	(g) Per OC-12, 4 fiber	535.00	1,490.00	1030.00	950.00	880.00	SHNC9	
	(h) Per OC-48, 2 fiber	650.00	1,600.00	1,325.00	1,215.00	1,050.00	SHNCJ	
	(i) Per OC-48, 4 fiber	650.00	3,200.00	2,650.00	2,430.00	2,100.00	SHNCK	
	(j) Per 28 DS1 Channel System (DS3)	205.00	700.00	550.00	500.00	450.00	SHNW8	
	(k) Per 28 DS1 Channel System (STS-1)	205.00	750.00	650.00	600.00	575.00	SHNCS	
	(l) Per DS1 on 28 DS1 Channel System (DS3)	175.00	18.00	12.00	9.00	8.00	SHNCA	
	(m) Per DS1 on 28 DS1 Channel System (STS-1)	175.00	40.00	35.00	30.00	25.00	SHNCG	
	(n) Per DS1 within an STS-1 Asymmetrical Arrangement	360.00	25.00	22.00	20.00	18.00	SHNCH	
	(o) Per DS3 (Asymmetrical with DS1)	400.00	550.00	450.00	400.00	350.00	SHNCT	
	(p) Per 1000 Mbps	400.00	740.00	520.00	475.00	425.00	SHNCW	(N)
9.	Channel Interface Capacity Reallocation							

	Nonrecurring Charge	USOC
(a) Per Node, Per occurrence	\$365.00	SHRBC

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E6. BELLSOUTH SWA SERVICE

E6.2 Provision and Description of BellSouth SWA Service Arrangements (Cont'd)

E6.2.10 BellSouth SWA 500 Service (Cont'd)

- I. Premise Interface Codes as set forth in E6.1.3.A.2 preceding for BellSouth SWA FGD and BellSouth SWA TSBSA 3 also apply to BellSouth SWA 500 service.

E6.2.11 BellSouth Dedicated Ring

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

1. BellSouth Dedicated Ring is a dedicated, high capacity, network designed to provide increased reliability and functionality via a self-healing Ring topology between multiple customer designated locations and Telephone Company Central Offices where facilities can be made available as determined by the Company. This network consists of fiber routed through local, alternate central office, internodal and/or interoffice channel facilities that transmit DS1, DS3, STS-1, OC-3, OC-12 and/or **OC-48** channel services simultaneously over primary and alternate paths between customer designated locations and Telephone Company Central Offices. This Ring topology will continually monitor DS1, DS3, STS-1, OC-3, OC-12 and/or **OC-48** 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 and/or OC-12 Services between locations within the network. (C)
BellSouth Dedicated Ring is available at OC-1, OC-3, OC-3+ OC-12, OC-48, OC-48+, **OC-192** and **OC-192+** capacities. (C)
2. OC-1 BellSouth Dedicated Ring is available only in Overlay Ring Arrangements riding the customer's host OC-12, OC-48 or OC-48+ BellSouth Dedicated Ring. The OC-1 BellSouth Dedicated Ring shares the transport of its host BellSouth Dedicated Ring. OC-1 BellSouth Dedicated Ring provides an equivalent capacity of 28 DS1s or one STS-1. When an OC-1 BellSouth Dedicated Ring overlays an OC-12, OC-48, or OC-48+ BellSouth Dedicated Ring, an OC-1 channel interface is required. (C)
3. OC-3 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+** BellSouth Dedicated Ring. OC-3 BellSouth Dedicated Ring provides an equivalent capacity of 3 DS3s, or any combination thereof not to exceed an OC-3 capacity. (C)
Channel Interface Capacity 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.
4. OC-3+ BellSouth Dedicated Ring is available as an individual service, or in combination with OC-12 BellSouth Dedicated Ring, or in an Overlay Ring Arrangement riding the customer's host OC-48, **OC-48+, OC-192 or OC-192+** BellSouth Dedicated Ring. OC-3+ 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. (C)
When a customer orders OC-3+ BellSouth Dedicated Ring in combination with OC-12 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.
5. OC-12 BellSouth Dedicated Ring is available as an individual service, or in combination with OC-3+ BellSouth Dedicated Ring, or in an Overlay Ring Arrangement riding the customer's host OC-48, **OC-48+, OC-192 or OC-192+** BellSouth Dedicated Ring. OC-12 BellSouth Dedicated Ring provides an equivalent capacity of 12 DS3s. (C)
6. OC-48 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+ BellSouth Dedicated Ring**, or with overlaying rings in capacities of OC-1, OC-3, OC-3+ and/or OC-12. OC-48 BellSouth Dedicated Ring provides an equivalent capacity of 48 DS3s. (C)
7. OC-48+ BellSouth Dedicated Ring is available as an individual bi-directional service, **or in an Overlay Ring Arrangement riding the customer's host OC-192+ 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+ BellSouth Dedicated Ring is determined by the number of Customer and Central Office nodes on the Ring. (C)
8. OC-192 BellSouth Dedicated Ring service 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 BellSouth Dedicated Ring provides an equivalent capacity of 192 DS3s. (N)
9. OC-192+ BellSouth Dedicated Ring service 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+ BellSouth Dedicated Ring service is determined by the number of Customer and Central Office nodes on the ring. (N)

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E6. BELLSOUTH SWA SERVICE**E6.2 Provision and Description of BellSouth SWA Service Arrangements (Cont'd)****E6.2.11 BellSouth Dedicated Ring (Cont'd)**

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

8. BellSouth Dedicated Ring Channel Interfaces are available as follows:

Channel Interfaces	Nodes								
	OC-1	OC-3	OC-3+	OC-12	OC-48	OC-48+	OC-192	OC-192+	
DS1	Yes	Yes	Yes	No	No ¹	No ¹	No ¹	No ¹	(C)
DS3	No	Yes	Yes	Yes	Yes	Yes	Yes ¹	Yes ¹	(C)
STS-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes ¹	Yes ¹	(C)
OC-1 ²	No	No	No	Yes	Yes	Yes	Yes ¹	Yes ¹	(C)
OC-3	No	No	No	Yes	Yes	Yes	Yes ¹	Yes ¹	(C)
OC-12	No	No	No	No	Yes	Yes	Yes ¹	Yes ¹	(C)
OC-48	No	No	No	No	No	No	Yes ¹	Yes ¹	(N)
28 DS1 Channel System (DS3)	No	Yes	Yes	Yes	Yes	Yes	Yes ¹	Yes ¹	(C)
28 DS1 Channel System (STS-1)	No	Yes	Yes	Yes	Yes	Yes	Yes ¹	Yes ¹	(C)

9. BellSouth Dedicated Ring Overlay Ring Arrangements are available as follows:

Overlaying BellSouth Dedicated Ring	Host BellSouth Dedicated Ring					
	OC-12	OC-48	OC-48+	OC-192	OC-192+	
OC-1	X	X	X	X	X	(C)
OC-3	X	X	X	X	X	(C)
OC-3+		X	X	X	X	(C)
OC-12		X	X	X	X	(C)
OC-48				X	X	(N)
OC-48+					X	(N)

10. BellSouth Dedicated Ring is connectable at Telephone Company Central Offices to any 44.736 Mbps and/or 1.544 Mbps services as provided in Section E6. of this tariff. Rates and charges for such other services are as set forth in the applicable sections of this tariff for such other services.
11. Shared Network Arrangements will not be provided with BellSouth Dedicated Ring at the Ring level. Shared Network Arrangements as defined in E2.6 apply to DS1 channel interfaces only.
12. The customer must provide suitable floor space, controlled environment, and source of non-switched suitable power to support this service.
13. Where the customer provides two separate entrance facility cable routes for BellSouth Dedicated Ring, the primary and alternate entrance facilities will be separate and will enter the customer node over such different routes. When the customer requests a connection at a Customer Node via two local channels and Telephone Company facilities do not exist for the second Local Channel, the Telephone Company may provide an equivalent second Local Channel via an existing alternate route. When facilities become available for the second Local Channel, the Telephone Company may rearrange the alternate route at any time.

Note 1: DS1 interfaces and are available via OC-1, OC-3, and OC-3+ Overlay Ring Arrangements or 28 DS1 Channel Systems only. *DS3 and STS-1 interfaces and DS3 and STS-1 Channel Systems are available for rings installed on or after October 30, 2003.* (C)

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

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E6. BELLSOUTH SWA SERVICE**E6.7 Rate Regulations (Cont'd)****E6.7.25 BellSouth Dedicated Ring**

- A. Monthly rates and charges as specified in E6.8.1 following apply for each 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 BellSouth Dedicated Ring rides the customer's host 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-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. Rate categories for OC-1 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 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. (C)
- B. 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 are ordered under TPP arrangements.
- C. BellSouth Dedicated Ring ring 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 for TPP customers. When the customer requests two separate routes and the routing is provided as described in E6.2.11.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.
- D. For Internodal Channels, charges apply as appropriate either for the same wire center area or contiguous serving wire center areas, as specified in E6.8.1.
- E. 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.
- F. When the customer orders an OC-1 BellSouth Dedicated Ring Overlay Ring Arrangement riding the customer's host OC-12, OC-48, or OC-48+ 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.
- G. When the customer orders an OC-3 BellSouth Dedicated Ring Overlay Ring Arrangement riding the customer's host OC-12, OC-48, OC-48+, **OC-192** or **OC-192+** BellSouth Dedicated Ring, recurring charges apply per OC-3 Customer Node and/or OC-3 Central Office Node, in addition to the recurring and nonrecurring charges for associated Channel Interfaces. Nonrecurring charges only apply for month-to-month customers. (C)
- H. When the customer orders an **OC-3**, OC-3+ or OC-12 Overlay Ring Arrangement riding the customer's host OC-48 or **OC-48+** BellSouth Dedicated Ring, recurring charges apply per **OC-3**, OC-3+ and/or OC-12 Customer Node and/or per **OC-3**, OC-3+ and/or OC-12 Central Office Node, in addition to the charges for associated Channel Interfaces. Nonrecurring charges only apply for month-to-month customers. (C)
- I. When the customer orders an OC-3, OC-3+, OC-12 or OC-48 Overlay Ring Arrangement riding the customer's host OC-192 or OC-192+ BellSouth Dedicated Ring, recurring charges apply per OC-3+, OC-12 and/or OC-48 Customer Node and/or per OC-3+, OC-12 and/or OC-48 Central Office Node, in addition to the charges for associated Channel Interfaces. Nonrecurring charges only apply for month-to-month customers. (N)

(M)

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E6. BELLSOUTH SWA SERVICE**E6.7 Rate Regulations (Cont'd)****E6.7.25 BellSouth Dedicated Ring (Cont'd)**

(N)

- J.** In all Overlay Ring Arrangements, the number of OC-1, OC-3, OC-12, and/or **OC-48** Channel Interfaces required will be based upon the characteristics of the overlaying ring. (C)(M)
- K.** 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, and/or **OC-48** at the Customer Node. Nonrecurring charges are established on a per order basis for the first DS1, DS3, STS-1, OC-3, OC-12, and/or **OC-48** which originates or terminates at a Customer Node and for each additional DS1, DS3, STS-1, OC-3, OC-12, and/or **OC-48** which originates or terminates at the same Customer Node. The recurring rate applies on a per Customer Node basis for each origination and for each termination of an activated *interface* at a Customer Node. (C)(M)

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E6. BELLSOUTH SWA SERVICE**E6.7 Rate Regulations (Cont'd)****E6.7.25 BellSouth Dedicated Ring (Cont'd)**

- L.** 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. 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, nonrecurring charges only apply for month-to-month customers. The recurring rate applies for each 28 DS1 Channel System and each DS1 Channel Interface activated per Central Office Node. (T)
- M.** In order to accommodate more flexible customer situations, BellSouth Dedicated Ring is available under several TPP arrangements: Plan A (12-36 Months), Plan B (37-60 Months) or Plan C (61-96 Months). Month-to-month arrangements (with a minimum of four months) are available for BellSouth Dedicated Ring. (T)
- N.** TPP arrangements are provided under the terms and conditions specified in E2.4.9 preceding, except as modified following. (T)
- For all payment plans, the following regulations apply:
1. BellSouth Dedicated Ring, whether initially or subsequently ordered, in conjunction with SMARTRing[®] service (a.k.a. BellSouth SPA Dedicated Ring) must be provided under the same TPP payment plan with the same service period and both services are to be coterminous.

All rate elements, for a given 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 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 BellSouth Dedicated Ring.

In a shared network arrangement, where the host subscriber and the connecting service user subscribes to services under 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.
 2. The rates applicable to a month-to-month payment plan are subject to Telephone Company initiated charges.
 3. Termination liability charges for BellSouth Dedicated Ring TPP customers are applicable as specified in E2.4.9.C preceding.
 4. When a service period under a TPP arrangement is completed and a customer elects to revert to a month-to-month payment option, no minimum period is applicable.

The TPP customer of record will have a 60 day grace period after which month-to-month rates will apply.
 5. Customers may upgrade from a lower capacity BellSouth Dedicated Ring to a higher capacity BellSouth Dedicated Ring without incurring any termination charges if the following conditions are met:
 - a. the order for the upgraded BellSouth Dedicated Ring and the order for the disconnect of the existing BellSouth Dedicated Ring are received by the Telephone Company at the same time,
 - b. the new BellSouth Dedicated Ring is provided between the same customer and Central Office locations as the discontinued BellSouth Dedicated Ring,
 - c. the number of Channel Interfaces activated under the new capacity BellSouth Dedicated Ring is greater than the number of Channel Interfaces activated under the existing capacity BellSouth Dedicated Ring,
 - d. the expiration date of the new BellSouth Dedicated Ring payment plan is subsequent to the payment plan of the ring being discontinued.
 6. Customers may also upgrade existing BellSouth Dedicated Ring to a new 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 BellSouth Dedicated Ring and if the conditions set forth in 5. preceding are met.
 7. BellSouth Dedicated Ring and the applicable rates will commence beginning with the date a customer orders service. However, where ordering and billing processes have not yet been converted to BellSouth Dedicated Ring, the customer must order any additional services to be provided under BellSouth Dedicated Ring as existing tariffed services and be billed under tariff rates which would apply for such services, with monthly billing adjustments made to such billing to assure application of the appropriate BellSouth Dedicated Ring rates.

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E6. BELLSOUTH SWA SERVICE**E6.8 Rates and Charges (Cont'd)****E6.8.1 BellSouth SWA Transport (Cont'd)****K. BellSouth Dedicated Ring - Self-healing Multi-nodal Alternate Route Topology Ring - Month-to-Month****1. Local Channel (All capacities except OC-1)**

		Month-to-Month	Nonrecurring Charge	USOC	
	(a) Per Local Channel	\$ -	\$380.00	1HSLC	
	(b) Per Quarter Air Mile	95.00	-	1HSLC	
2. Alternate Central Office (All capacities except OC-1)					
	(a) Per Alternate C.O. Channel	-	415.00	1HSAC	
	(b) Per Quarter Air Mile	1,500.00	-	1HSAC	
3. Interoffice Channel (All capacities except OC-1)					
	(a) Per Channel, <i>except OC-192 and OC-192+ Capacity</i>	-	125.00	1HS1C	(C)
	(b) Fixed, OC-3 Capacity	45.00	-	1HS1C	(T)
	(c) Fixed, OC-3+, OC-12, OC-48 or OC-48+ Capacity	158.00	-	1HS1C	(T)
	(d) Fixed, OC-192 or OC-192+ Capacity	600.00	300.00	1HS1C	(N)
	(e) Per Quarter Air Mile, OC-3 Capacity	41.00	-	1HS1C	(T)
	(f) Per Quarter Air Mile, OC-3+, OC-12, OC-48 or OC-48+ Capacity	50.00	-	1HS1C	(T)
	(g) Per Quarter Air Mile, OC-192 or OC-192+ Capacity	55.00	-	1HS1C	(N)
4. Internodal Channel (All capacities except OC-1)					
	(a) Per Internodal Channel, Same Wire Center Area, Per Quarter Air Mile	3,000.00	435.00	1HSSC	
	(b) Per Internodal Channel, Same Office Park/Campus Environment in Contiguous Serving Wire Center Areas, Per Quarter Air Mile	3,500.00	435.00	1HSCC	
5. Customer Node (Per Customer Node)					
	(a) OC-1 Capacity	720.00	390.00	SHSC4	(T)
	(b) OC-3 Capacity	1,980.00	410.00	SHSC3	(T)
	(c) OC-3+ Capacity	2,700.00	410.00	SHSN5	(T)
	(d) OC-12 Capacity	3,060.00	420.00	SHSC1	(T)
	(e) OC-48 Capacity	5,220.00	420.00	SHSN8	(T)
	(f) OC-48+ Capacity	5,850.00	420.00	SHSN9	(T)
	(g) OC-192 Capacity	25,000.00	540.00	SHSN6	(N)
	(h) OC-192+ Capacity	25,000.00	540.00	SHSC2	(N)
					(M)

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E6. BELLSOUTH SWA SERVICE**E6.8 Rates and Charges (Cont'd)****E6.8.1 BellSouth SWA Transport (Cont'd)**

K. BellSouth Dedicated Ring - Self-healing Multi-nodal Alternate Route Topology Ring - Month-to-Month (Cont'd)					(N)
6.	Customer Channel Interface (Per Customer Node)				(M)
		Month-to-	Nonrecurring	USOC	
		Month	Charge		
(a)	Per DS1	\$35.00	\$245.00	SHSBB	(T)(M)
(b)	Per DS3	170.00	110.00	SHSZT	(M)
(c)	Per STS-1	220.00	105.00	SHS13	(M)
(d)	Per OC-1	100.00	115.00	SHS1C	(M)
(e)	Per OC-3, 2-Fiber	240.00	110.00	SHS1D	(M)
(f)	Per OC-3, 4-Fiber	475.00	110.00	SHS15	(M)
(g)	Per OC-12, 2-Fiber	715.00	115.00	SHS1F	(M)
(h)	Per OC-12, 4-Fiber	1,430.00	115.00	SHS19	(M)
(i)	Per OC-48, 2-Fiber	1,600.00	420.00	SHS1A	(N)
(j)	Per OC-48, 4-Fiber	3,200.00	420.00	SHS1B	(N)
7.	Central Office Node (Per Central Office Node)				(M)
(a)	OC-1 Capacity	540.00	385.00	SHSH4	(T)(M)
(b)	OC-3 Capacity	1,260.00	410.00	SHSH3	(T)(M)
(c)	OC-3+ Capacity	2,250.00	410.00	SHSH5	(T)(M)
(d)	OC-12 Capacity	2,340.00	420.00	SHSH1	(T)(M)
(e)	OC-48 Capacity	4,860.00	420.00	SHSH8	(T)(M)
(f)	OC-48+ Capacity	5,490.00	420.00	SHSH9	(T)(M)
(g)	OC-192 Capacity	25,000.00	540.00	SHSH7	(N)
(h)	OC-192+ Capacity	25,000.00	540.00	SHSH2	(N)

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E6. BELLSOUTH SWA SERVICE**E6.8 Rates and Charges (Cont'd)****E6.8.1 BellSouth SWA Transport (Cont'd)****K. BellSouth Dedicated Ring - Self-healing Multi-nodal Alternate Route Topology Ring - Month-to-Month (Cont'd)****8. Central Office Channel Interface (Per Central Office Node)**

		Month-to-Month	Nonrecurring Charge	USOC	
(a)	Per DS1	\$35.00	\$100.00	SHSCB	
(b)	Per DS3	115.00	150.00	SHSYT	
(c)	Per STS-1	150.00	155.00	SHSO2	
(d)	Per OC-1	100.00	170.00	SHSCC	
(e)	Per OC-3, 2-Fiber	240.00	99.00	SHSCD	
(f)	Per OC-3, 4-Fiber	425.00	99.00	SHSO4	
(g)	Per OC-12, 2-Fiber	640.00	99.00	SHSCF	
(h)	Per OC-12, 4-Fiber	1,280.00	99.00	SHSC9	
(i)	Per OC-48, 2-Fiber	1,600.00	600.00	SHSCJ	(N)
(j)	Per OC-48, 4-Fiber	3,200.00	600.00	SHSCK	(N)
(k)	Per 28 DS1 Channel System - DS3	650.00	130.00	SHSW8	(T)
(l)	Per 28 DS1 Channel System - STS-1	750.00	130.00	SHSCS	(T)
(m)	Per DS1 on 28 DS1 Channel System - DS3	12.00	130.00	SHSCA	(T)
(n)	Per DS1 on 28 DS1 Channel System - STS-1	40.00	83.00	SHSCG	(T)

L. BellSouth Dedicated Ring - 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	
		Months	Months	Months	
(a)	Per Quarter Air Mile	\$83.00	\$73.00	\$68.00	1HSLC (T)
2.	Alternate Central Office (All capacities except OC-1)				
(a)	Per Quarter Air Mile	280.00	175.00	140.00	1HSAC (T)
3.	Interoffice Channel (All capacities except OC-1)				
(a)	Fixed, OC-3 Capacity	36.00	32.00	27.00	1HS1C (T)
(b)	Fixed, OC-3+, OC-12, OC-48 or OC-48+ Capacity	140.00	126.00	117.00	1HS1C (T)
(c)	Fixed, OC-192 or OC-192+ Capacity	450.00	400.00	380.00	1HS1C (N)
(d)	Per Quarter Air Mile, OC-3 Capacity	32.00	23.00	18.00	1HS1C (T)
(e)	Per Quarter Air Mile, OC-3+, OC-12, OC-48 or OC-48+ Capacity	36.00	30.00	23.00	1HS1C (T)
(f)	Per Quarter Air Mile, OC-192 or OC-192+ Capacity	40.00	33.00	25.00	1HS1C (N)
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	1HSSC
(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	1HSCC
5.	Customer Node (Per Customer Node)				
(a)	OC-1 Capacity	360.00	315.00	270.00	SHSC4 (T)
(b)	OC-3 Capacity	990.00	900.00	810.00	SHSC3 (T)
(c)	OC-3+ Capacity	1,845.00	1,575.00	1,350.00	SHSN5 (T)
(d)	OC-12 Capacity	1,980.00	1,800.00	1,575.00	SHSC1 (T)
(e)	OC-48 Capacity	4,410.00	4,050.00	3,510.00	SHSN8 (T)
(f)	OC-48+ Capacity	4,410.00	4,050.00	3,510.00	SHSN9 (T)
(g)	OC-192 Capacity	9,375.00	8,250.00	7,300.00	SHSN6 (N)
(h)	OC-192+ Capacity	9,375.00	8,250.00	7,300.00	SHSC2 (N)

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E6. BELLSOUTH SWA SERVICE**E6.8 Rates and Charges (Cont'd)****E6.8.1 BellSouth SWA Transport (Cont'd)****L. BellSouth Dedicated Ring - Self-healing Multi-nodal Alternate Route Topology Ring - Transport Payment Plan (Cont'd)****6. Customer Channel Interface (Per Customer Node)**

		Per Month Rates			USOC	
		A	B	C		
		12-36	37-60	61-96		
	Months	Months	Months	Months		
(a)	Per DS1	\$34.00	\$27.00	\$21.00	SHSBB	
(b)	Per DS3	135.00	130.00	125.00	SHSZT	
(c)	Per STS-1	170.00	150.00	140.00	SHS13	
(d)	Per OC-1	90.00	80.00	75.00	SHS1C	
(e)	Per OC-3, 2-Fiber	170.00	150.00	140.00	SHS1D	(T)
(f)	Per OC-3, 4-Fiber	340.00	300.00	280.00	SHS15	(T)
(g)	Per OC-12, 2-Fiber	484.00	446.00	408.00	SHS1F	(T)
(h)	Per OC-12, 4-Fiber	969.00	893.00	816.00	SHS19	(T)
(i)	Per OC-48, 2-Fiber	1,325.00	1,215.00	1,050.00	SHS1A	(N)
(j)	Per OC-48, 4-Fiber	2,650.00	2,430.00	2,100.00	SHS1B	(N)
7. Central Office Node (Per Central Office Node)						
(a)	OC-1 Capacity	360.00	315.00	270.00	SHSH4	(T)
(b)	OC-3 Capacity	990.00	900.00	810.00	SHSH3	(T)
(c)	OC-3+ Capacity	1,845.00	1,575.00	1,350.00	SHSH5	(T)
(d)	OC-12 Capacity	1,980.00	1,800.00	1,575.00	SHSH1	(T)
(e)	OC-48 Capacity	4,410.00	4,050.00	3,510.00	SHSH8	(T)
(f)	OC-48+ Capacity	4,410.00	4,050.00	3,510.00	SHSH9	(T)
(g)	OC-192 Capacity	9,375.00	8,250.00	7,300.00	SHSH7	(N)
(h)	OC-192+ Capacity	9,375.00	8,250.00	7,300.00	SHSH2	(N)
8. Central Office Channel Interface (Per Central Office Node)						
(a)	Per DS1	30.00	25.00	20.00	SHSCB	
(b)	Per DS3	85.00	80.00	75.00	SHSYT	
(c)	Per STS-1	105.00	100.00	90.00	SHSO2	
(d)	Per OC-1	90.00	80.00	75.00	SHSCC	
(e)	Per OC-3, 2-Fiber	170.00	150.00	140.00	SHSCD	(T)
(f)	Per OC-3, 4-Fiber	320.00	280.00	260.00	SHSO4	(T)
(g)	Per OC-12, 2-Fiber	420.00	382.00	344.00	SHSCF	(T)
(h)	Per OC-12, 4-Fiber	841.00	765.00	688.00	SHSC9	(T)
(i)	Per OC-48, 2-Fiber	1,325.00	1,215.00	1,050.00	SHSCJ	(N)
(j)	Per OC-48, 4-Fiber	2,650.00	2,430.00	2,100.00	SHSCK	(N)
(k)	Per 28 DS1 Channel System - DS3	550.00	500.00	450.00	SHSW8	(T)
(l)	Per 28 DS1 Channel System - STS-1	650.00	600.00	575.00	SHSCS	(T)
(m)	Per DS1 on 28 DS1 Channel System - DS3	12.00	9.00	7.00	SHSCA	(T)
(n)	Per DS1 on 28 DS1 Channel System - STS-1	35.00	30.00	25.00	SHSCG	(T)

M. BellSouth Dedicated Ring - Self-healing Multi-nodal Alternate Route Topology Ring**1. Channel Interface Reallocation**

	Nonrecurring Charge	USOC
(a) Per Node, Per Occurrence	\$225.00	SHSBC

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E7. DEDICATED ACCESS SERVICES**E7.5 Rates and Charges (Cont'd)****E7.5.18 SmartRing[®] service (a.k.a BellSouth Dedicated Ring) (Cont'd)****B. Self-healing Multi-nodal Alternate Route Topology Ring - Transport Payment Plan**

(M)

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

(M)

		Per Month Rates			
		A	B	C	
		12-36	37-60	61-96	USOC
		Months	Months	Months	
(a)	Per Quarter Air Mile	\$85.00	\$75.00	\$70.00	1HVXX
					(M)
2.	Alternate Central Office (All capacities except OC-1)				
					(M)
(a)	Per Quarter Air Mile	400.00	250.00	200.00	1HAXX
					(M)
3.	Interoffice Channel (All capacities except OC-1)				
					(M)
(a)	Fixed, OC-3 Capacity	40.00	35.00	30.00	1HXFX
					(M)
(b)	Fixed, OC-3+, OC-12, OC-48 or OC-48+ Capacity	155.00	140.00	130.00	1HXFX
					(M)
(c)	Fixed, OC-192 or OC-192+ Capacity	450.00	400.00	380.00	1HXFX
					(N)
(d)	Per Quarter Air Mile, OC-3 Capacity	35.00	25.00	20.00	1HXFX
					(T)(M)
(e)	Per Quarter Air Mile, OC-3+, OC-12, OC-48 or OC-48+ Capacity	40.00	33.00	25.00	1HXFX
					(T)(M)
(f)	Per Quarter Air Mile, OC-192 or OC-192+ Capacity	40.00	33.00	25.00	1HXFX
					(N)
4.	Internodal Channel (All capacities except OC-1)				
					(M)
(a)	Per Internodal Channel, Same Wire Center Area, Per Quarter Air Mile	690.00	415.00	345.00	1HNXX
					(M)
(b)	Per Internodal Channel, Same Office Park/Campus Environment in Contiguous Serving Wire Center Areas, Per Quarter Air Mile	780.00	465.00	390.00	1HNZX
					(M)
5.	Customer Node (Per Customer Node)				
					(M)
(a)	OC-1 Capacity	400.00	350.00	300.00	SHNC4
					(M)
(b)	OC-3 Capacity	1,100.00	1,000.00	900.00	SHNC3
					(M)
(c)	OC-3+ Capacity	2,050.00	1,750.00	1,500.00	SHNN5
					(M)
(d)	OC-12 Capacity	2,200.00	2,000.00	1,750.00	SHNC1
					(M)
(e)	OC-48 Capacity	4,900.00	4,500.00	3,900.00	SHNN8
					(M)
(f)	OC-48+ Capacity	4,900.00	4,500.00	3,900.00	SHNN9
					(M)
(g)	OC-192 Capacity	9,375.00	8,250.00	7,300.00	SHNN6
					(N)
(h)	OC-192+ Capacity	9,375.00	8,250.00	7,300.00	SHNN2
					(N)

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

E7.2 Service Descriptions (Cont'd)

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

B. (Cont'd)

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

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

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

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

(M)

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

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

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

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

(T)

<u>Channel Interfaces</u>	<u>Nodes</u>								
	<u>OC-1</u>	<u>OC-3</u>	<u>OC-3+</u>	<u>OC-12</u>	<u>OC-48</u>	<u>OC-48+</u>	<u>OC-192</u>	<u>OC-192+</u>	
DS1	Yes	Yes	Yes	No ¹	No ¹	No ¹	No ¹	No ¹	(C)
DS3	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	(C)
STS-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	(C)
OC-1 ²	No	No	No	Yes	Yes	Yes	Yes	Yes	(C)
OC-3	No	No	No	Yes	Yes	Yes	Yes	Yes	(C)
OC-12	No	No	No	No	Yes	Yes	Yes	Yes	(C)
28 DS1 Channel System (DS3)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	(C)
28 DS1 Channel System (STS-1)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	(C)
1000 Mbps	No	No	No	No	Yes ³	Yes ³	Yes	Yes	(N)

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

(T)

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

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

	<u>OC-12</u>	<u>OC-48</u>	<u>OC-48+</u>	<u>OC-192</u>	<u>OC-192+</u>	
OC-1	X	X	X	X	X	(C)
OC-3	X	X	X	X	X	(C)
OC-3+		X	X	X	X	(C)
OC-12		X	X	X	X	(C)
OC-48				X	X	(N)
OC-48+					X	(N)

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

(T)

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

(T)

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

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

(T)

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.

(T)

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

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

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

(N)

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E7. SPECIAL ACCESS (A.K.A. BELLSOUTH SPA) SERVICE**E7.4 Rate Regulations (Cont'd)****E7.4.12 FlexServ[®] Service (a.k.a. BellSouth SPA Customer Reconfiguration) (Cont'd)****B. Application of Rates (Cont'd)****2. FlexServ[®] service (a.k.a. BellSouth SPA Customer Reconfiguration) Options****a. Additional Concurrent User Access**

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

b. Additional User Identification Codes

A nonrecurring charge applies for each additional ID requested.

c. Additional Customer Training

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

d. Multipoint Bridging

Multipoint Bridging (DMB)

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

Multipoint Junction Unit

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

e. Subrate Reconfiguration

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

f. Reconfigurations by the Company Personnel

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

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

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

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

E7.4.14 SMARTRing[®] Service (a.k.a. BellSouth Dedicated Ring)**A. Self-healing Multi-nodal Alternate Route Topology Ring**

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

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

E7.4 Rate Regulations (Cont'd)

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

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

1. (Cont'd)

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

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

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E7. DEDICATED ACCESS SERVICES**E7.5 Rates and Charges (Cont'd)****E7.5.18 SmartRing[®] service (a.k.a. BellSouth Dedicated Ring)****A. Self-healing Multi-nodal Alternate Route Topology Ring - Month-to-Month****1. Local Channel (All capacities except OC-1)**

	Month-to-Month	Nonrecurring Charge	USOC	
(a) Per Local Channel	-	\$405.00	1HVXX	
(b) Per Quarter Air Mile	\$95.00	-	1HVXX	
2. Alternate Central Office (All capacities except OC-1)				
(a) Per Alternate C.O. Channel	-	470.00	1HAXX	
(b) Per Quarter Air Mile	1,500.00	-	1HAXX	
3. Interoffice Channel (All capacities except OC-1)				
(a) Per Channel, <i>except OC-192 and OC-192+ Capacity</i>	-	160.00	1HXFX	(C)
(b) Fixed, OC-3 Capacity	50.00	-	1HXFX	
(c) Fixed, OC-3+, OC-12, OC-48 or OC-48+ Capacity	175.00	-	1HXFX	
(d) Fixed, OC-192 or OC-192+ Capacity	600.00	300.00	1HXFX	(N)
(e) Per Quarter Air Mile, OC-3 Capacity	45.00	-	1HXFX	(T)
(f) Per Quarter Air Mile, OC-3+, OC-12, OC-48 or OC-48+ Capacity	55.00	-	1HXFX	(T)
(g) Per Quarter Air Mile, OC-192 or OC-192+ Capacity	55.00	-	1HXFX	(N)
4. Internodal Channel (All capacities except OC-1)				
(a) Per Internodal Channel, Same Wire Center Area, Per Quarter Air Mile	3,000.00	430.00	1HNXX	
(b) Per Internodal Channel, Same Office Park/Campus Environment in Contiguous Serving Wire Center Areas, Per Quarter Air Mile	3,500.00	430.00	1HNZX	

(M)

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E7. DEDICATED ACCESS SERVICES**E7.5 Rates and Charges (Cont'd)****E7.5.18 SmartRing® service (a.k.a. BellSouth Dedicated Ring) (Cont'd)****A. Self-healing Multi-nodal Alternate Route Topology Ring - Month-to-Month (Cont'd)**

5. Customer Node (Per Customer Node)					(M)
		Month-to-	Nonrecurring		(N)
		Month	Charge	USOC	
(a)	OC-1 Capacity	\$800.00	\$425.00	SHNC4	(T)(M)
(b)	OC-3 Capacity	2,200.00	490.00	SHNC3	(M)
(c)	OC-3+ Capacity	3,000.00	490.00	SHNN5	(M)
(d)	OC-12 Capacity	3,400.00	485.00	SHNC1	(M)
(e)	OC-48 Capacity	5,800.00	485.00	SHNN8	(M)
(f)	OC-48+ Capacity	6,500.00	485.00	SHNN9	(M)
(g)	OC-192 Capacity	25,000.00	640.00	SHNN6	(N)
(h)	OC-192+ Capacity	25,000.00	640.00	SHNN2	(N)
6. Customer Channel Interface (Per Customer Node)					(M)
(a)	Per DS1	35.00	235.00	SHNBB	(M)
(b)	Per DS3	170.00	105.00	SHNZT	(M)
(c)	Per STS-1	220.00	105.00	SHN13	(M)
(d)	Per OC-1	100.00	115.00	SHN1C	(M)
(e)	Per OC-3, 2-Fiber	240.00	110.00	SHN1D	(M)
(f)	Per OC-3, 4-Fiber	475.00	110.00	SHN15	(M)
(g)	Per OC-12, 2-Fiber	715.00	115.00	SHN1F	(M)
(h)	Per OC-12, 4-Fiber	1,430.00	115.00	SHN19	(M)
(i)	Per OC-48, 2-Fiber	1,600.00	640.00	SHN1A	(N)
(j)	Per OC-48, 4-Fiber	3,200.00	640.00	SHN1B	(N)
(k)	Per 1000 Mbps	740.00	540.00	SHN1K	(N)
7. Central Office Node (Per Central Office Node)					(M)
(a)	OC-1 Capacity	600.00	415.00	SHNH4	(M)
(b)	OC-3 Capacity	1,400.00	490.00	SHNH3	(M)
(c)	OC-3+ Capacity	2,500.00	490.00	SHNH5	(M)
(d)	OC-12 Capacity	2,600.00	485.00	SHNH1	(M)
(e)	OC-48 Capacity	5,400.00	485.00	SHNH8	(M)
(f)	OC-48+ Capacity	6,100.00	485.00	SHNH9	(M)
(g)	OC-192 Capacity	25,000.00	640.00	SHNH7	(N)
(h)	OC-192+ Capacity	25,000.00	640.00	SHNH6	(N)

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E7. DEDICATED ACCESS SERVICES**E7.5 Rates and Charges (Cont'd)****E7.5.18 SmartRing® service (a.k.a. BellSouth Dedicated Ring) (Cont'd)**

(T)

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

(T)

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

	Month-to- Month	Nonrecurring Charge	USOC	
(a) Per DS1	\$35.00	\$98.00	SHNCB	
(b) Per DS3	115.00	150.00	SHNYT	
(c) Per STS-1	150.00	155.00	SHNO2	
(d) Per OC-1	100.00	170.00	SHNCC	
(e) Per OC-3, 2-Fiber	240.00	99.00	SHNCD	
(f) Per OC-3, 4-Fiber	425.00	99.00	SHNO4	
(g) Per OC-12, 2-Fiber	640.00	99.00	SHNCF	
(h) Per OC-12, 4-Fiber	1,280.00	99.00	SHNC9	
(i) Per OC-48, 2-Fiber	1,600.00	640.00	SHNCJ	(N)
(j) Per OC-48, 4-Fiber	3,200.00	640.00	SHNCK	(N)
(k) Per 28 DS1 Channel System - DS3	650.00	130.00	SHNW8	(T)
(l) Per 28 DS1 Channel System - STS-1	750.00	130.00	SHNCS	(T)
(m) Per DS1 on 28 DS1 Channel System - DS3	12.00	125.00	SHNCA	(T)
(n) Per DS1 on 28 DS1 Channel System - STS-1	40.00	81.00	SHNCG	(T)
(o) Per 1000 Mbps	740.00	400.00	SHNCW	(N)
				(M)

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E7. DEDICATED ACCESS SERVICES**E7.5 Rates and Charges (Cont'd)****E7.5.18 SmartRing® service (a.k.a BellSouth Dedicated Ring) (Cont'd)****B. Self-healing Multi-nodal Alternate Route Topology Ring - Transport Payment Plan**

(M)

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

(M)

		Per Month Rates			
		A	B	C	
		12-36	37-60	61-96	
		Months	Months	Months	USOC
	(a) Per Quarter Air Mile	\$85.00	\$75.00	\$70.00	1HVXX (M)
2.	Alternate Central Office (All capacities except OC-1)				(M)
	(a) Per Quarter Air Mile	400.00	250.00	200.00	1HAXX (M)
3.	Interoffice Channel (All capacities except OC-1)				(M)
	(a) Fixed, OC-3 Capacity	40.00	35.00	30.00	1HXFX (M)
	(b) Fixed, OC-3+, OC-12, OC-48 or OC-48+ Capacity	155.00	140.00	130.00	1HXFX (M)
	(c) Fixed, OC-192 or OC-192+ Capacity	450.00	400.00	380.00	1HXFX (N)
	(d) Per Quarter Air Mile, OC-3 Capacity	35.00	25.00	20.00	1HXFX (T)(M)
	(e) Per Quarter Air Mile, OC-3+, OC-12, OC-48 or OC-48+ Capacity	40.00	33.00	25.00	1HXFX (T)(M)
	(f) Per Quarter Air Mile, OC-192 or OC-192+ Capacity	40.00	33.00	25.00	1HXFX (N)
4.	Internodal Channel (All capacities except OC-1)				(M)
	(a) Per Internodal Channel, Same Wire Center Area, Per Quarter Air Mile	690.00	415.00	345.00	1HNXX (M)
	(b) Per Internodal Channel, Same Office Park/Campus Environment in Contiguous Serving Wire Center Areas, Per Quarter Air Mile	780.00	465.00	390.00	1HNZX (M)
5.	Customer Node (Per Customer Node)				(M)
	(a) OC-1 Capacity	400.00	350.00	300.00	SHNC4 (M)
	(b) OC-3 Capacity	1,100.00	1,000.00	900.00	SHNC3 (M)
	(c) OC-3+ Capacity	2,050.00	1,750.00	1,500.00	SHNN5 (M)
	(d) OC-12 Capacity	2,200.00	2,000.00	1,750.00	SHNC1 (M)
	(e) OC-48 Capacity	4,900.00	4,500.00	3,900.00	SHNN8 (M)
	(f) OC-48+ Capacity	4,900.00	4,500.00	3,900.00	SHNN9 (M)
	(g) OC-192 Capacity	9,375.00	8,250.00	7,300.00	SHNN6 (N)
	(h) OC-192+ Capacity	9,375.00	8,250.00	7,300.00	SHNN2 (N)

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E7. DEDICATED ACCESS SERVICES**E7.5 Rates and Charges (Cont'd)****E7.5.18 SmartRing® service (a.k.a BellSouth Dedicated Ring) (Cont'd)**

(T)

B. Self-healing Multi-nodal Alternate Route Topology Ring - Transport Payment Plan (Cont'd)**6. Customer Channel Interface (Per Customer Node)**

		Per Month Rates			USOC	
		A	B	C		
		12-36	37-60	61-96		
		Months	Months	Months		
(a)	Per DS1	\$34.00	\$27.00	\$21.00	SHNBB	
(b)	Per DS3	135.00	130.00	125.00	SHNZT	
(c)	Per STS-1	170.00	150.00	140.00	SHN13	
(d)	Per OC-1	90.00	80.00	75.00	SHN1C	
(e)	Per OC-3, 2-Fiber	190.00	175.00	160.00	SHN1D	
(f)	Per OC-3, 4-Fiber	380.00	350.00	320.00	SHN15	
(g)	Per OC-12, 2-Fiber	570.00	525.00	480.00	SHN1F	
(h)	Per OC-12, 4-Fiber	1,140.00	1,050.00	960.00	SHN19	
(i)	Per OC-48, 2-Fiber	1,325.00	1,215.00	1,050.00	SHN1A	(N)
(j)	Per OC-48, 4-Fiber	2,650.00	2,430.00	2,100.00	SHN1B	(N)
(k)	Per 1000 Mbps	520.00	475.00	425.00	SHN1K	(N)
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	(N)
(h)	OC-192+ Capacity	9,375.00	8,250.00	7,300.00	SHNH6	(N)
8. Central Office Channel Interface (Per Central Office Node)						
(a)	Per DS1	30.00	25.00	20.00	SHNCB	
(b)	Per DS3	85.00	80.00	75.00	SHNYT	
(c)	Per STS-1	105.00	100.00	90.00	SHNO2	
(d)	Per OC-1	90.00	80.00	75.00	SHNCC	
(e)	Per OC-3, 2-Fiber	190.00	175.00	160.00	SHNCD	
(f)	Per OC-3, 4-Fiber	330.00	300.00	270.00	SHNO4	
(g)	Per OC-12, 2-Fiber	495.00	450.00	405.00	SHNCF	
(h)	Per OC-12, 4-Fiber	990.00	900.00	810.00	SHNC9	
(i)	Per OC-48, 2-Fiber	1,325.00	1,215.00	1,050.00	SHNCJ	(N)
(j)	Per OC-48, 4-Fiber	2,650.00	2,430.00	2,100.00	SHNCK	(N)
(k)	Per 28 DS1 Channel System - DS3	550.00	500.00	450.00	SHNW8	(T)
(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	(T)
(n)	Per DS1 on 28 DS1 Channel System - STS-1	35.00	30.00	25.00	SHNCG	(T)
(o)	Per 1000 Mbps	520.00	475.00	425.00	SHNCW	(N)

C. Self-healing Multi-nodal Alternate Route Topology Ring**1. Channel Interface Reallocation**

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