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June 12, 2009

Beth Salak, Director
Regulatory Compliance
Florida Public Service Commission
Attn: Tariff Section
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Dear Ms. Salak:

Pursuant to Florida Statute 364.051, attached for filing with the Commission are the following pages of the General Subscriber Service Tariff and the Private Line Services Tariff:

General Subscriber Service Tariff

Section A40
- Fourth Revised Page 44.4
- Original Page 44.4.1
- Second Revised Page 44.5
- First Revised Page 44.6

Private Line Services Tariff

Section B7
- Second Revised Page 59.2
- Original Page 59.2.0.1
- First Revised Page 59.2.1
- Fifth Revised Page 63.1
- Original Page 63.2
- Fifth Revised Page 67
- Original Page 67.0.1

The purpose of this filing is to introduce the capability to carry Metro Ethernet data over SMARTRing Service. This filing will become effective on June 15, 2009.

Acknowledgment, date of receipt and authority number of this filing are requested.

Your consideration and approval will be appreciated.

Yours very truly,

Jerry D. Hendrix (slg)

Regulatory Vice President

Attachments

AT&T Florida
Attachment

Executive Summary

Description of Proposed Tariff

This tariff filing introduces a new capability to carry Metro Ethernet data over SMARTRing Service. This new functionality will allow customers to transport BellSouth Metro Ethernet Service over SMARTRing Metro Ethernet Access Links. Connections between Metro Ethernet and SMARTRing are at SMARTRing central office nodes.

Revenue Impact

The revenue for this service will cover its costs.

A40. FAST PACKET TRANSPORT SERVICES

A40.13 BellSouth Metro Ethernet Service (Cont'd)

A40.13.2 Regulations (Cont'd)

C. Provision of Service (Cont'd)

11. Basic, Premium and Virtual BellSouth Metro Ethernet Service Connections of 10 Mbps or higher may alternatively be provided to a customer premises over the customer's LightGate service or SMARTRing service.

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

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

    When the LightGate service or SMARTRing service central office node is located greater than 10 miles from the BellSouth Metro Ethernet Service wire center, BellSouth Metro Ethernet Service Additional Mileage charges will also be applicable.

    Metro Ethernet connections to SMARTRing can be either point-to-point or they can connect to Basic Shared Ethernet LAN service via Metro Ethernet Access Links. (N)

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

Point-to-Point Metro Ethernet Connection to SMARTRing Service (N)

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

~~(M)~~

~~Material previously appearing on this page now appears on page(s) 44.5 of this section.~~

A40. FAST PACKET TRANSPORT SERVICES (N)

A40.13 BellSouth Metro Ethernet Service (Cont'd) (N)

A40.13.2 Regulations (Cont'd) (N)

C. Provision of Service (Cont'd) (N)

12. As of June 15, 2009, Metro Ethernet customers will be able to use SMARTRing as a transport facility and connect to the Basic Shared Ethernet LAN service Virtual Packet Ring (VPR) via Metro Ethernet Access Links. The Virtual Packet ring creates a dedicated allotment of synchronous transmission signals (STS1's) on the SMARTRing that are connected via the Metro Ethernet Access Links. This combination of VPR and Access Links with the Metro Ethernet circuit will create a multi-point circuit on the SMARTRing. All Metro Ethernet transmissions will be broadcast to all Metro Ethernet Access Links associated with the specific VPR. Metro Ethernet Access Links are considered Layer 1 ports on the SMARTRing and do not interact with Layer 2 information transmitted by the Metro Ethernet switch, specifically Class of Service, priority or 802.1q. This Metro Ethernet Layer 2 information will pass through the Metro Ethernet Access Links to the customer equipment. (N)

The connection at the Central Office between Metro Ethernet and SMARTRing is Optical. The mixing of Access Link traffic and Metro Ethernet Access Link traffic on the same VPR is not supported. When the customer requests conversion of Access Links to Metro Ethernet Access Links, an out of service condition will occur until the conversion is complete, and the service will not be available for use during this time. (N)

Reconfiguration associated with Customer Network Management will not be allowed on Metro Ethernet Access Links. (N)

Additional rules for connecting Metro Ethernet to SMARTRing service are stated in the Private Line Price List, B7.7.7. (N)

Metro Ethernet connections to SMARTRing Metro Ethernet Access Links are limited to the following connections and speeds: (N)

Metro Ethernet Connection	SMARTRing Metro Ethernet Access Link Fractional 1000 Mbps at – Central Office	SMARTRing Metro Ethernet Access Link Fractional 1000 Mbps at – Customer Premises	
Basic 1000 Mbps	1000 Mbps	1000 Mbps	(N)
Premium 100 Mbps Optical (Fixed)	150 Mbps	150 Mbps	(N)
Premium 250 Mbps (Fixed)	300 Mbps	300 Mbps	(N)
Premium 500 Mbps (Fixed)	600 Mbps	600 Mbps	(N)
Premium 100, 250, 500, 900 Mbps (Burst)	1000 Mbps	1000 Mbps	(N)
Premium 900 Mbps, 1000 Mbps	1000 Mbps	1000 Mbps	(N)
Virtual Ethernet Service 100 Mbps	150 Mbps	150 Mbps	(N)
Virtual Ethernet Service 200 Mbps	300 Mbps	300 Mbps	(N)
Virtual Ethernet Service 300 Mbps	300 Mbps	300 Mbps	(N)
Virtual Ethernet Service 450 Mbps	450 Mbps	450 Mbps	(N)
Virtual Ethernet Service 600 Mbps	600 Mbps	600 Mbps	(N)
Virtual Ethernet Service 750, 900, 1000 Mbps	1000 Mbps	1000 Mbps	(N)

A40. FAST PACKET TRANSPORT SERVICES

A40.13 BellSouth Metro Ethernet Service (Cont'd)

A40.13.2 Regulations (Cont'd)

C. Provision of Service (Cont'd)

~~12~~13. Basic, Premium and Virtual BellSouth Metro Ethernet Service Connections of 100 Mbps and 1000 Mbps may alternatively be provided to a customer premises over a customer's BellSouth Wavelength service Dedicated Ring Arrangement. (T)

The customer is required to purchase the appropriate BellSouth Wavelength service Dedicated Ring Arrangement Wavelength Channel for the specific type and speed of BellSouth Metro Ethernet Service Connection serving that customer premises. (A chart is provided herein which sets forth the Wavelength Channel associated with the 100 Mbps and 1000 Mbps BellSouth Metro Ethernet Service Connection.)

For such applications using BellSouth Wavelength service as alternate transport, the BellSouth Metro Ethernet Service Connection will provide data channel transport from the BellSouth Metro Ethernet Service wire center associated with the BellSouth Metro Ethernet Service Connection (i.e., the central office of the Metro Ethernet Service switch) to the central office Node Location of the customer's BellSouth Wavelength service Dedicated Ring Arrangement.

When the central office Node Location of the customer's BellSouth Wavelength service Dedicated Ring Arrangement is located greater than 10 miles from the BellSouth Metro Ethernet Service wire center, BellSouth Metro Ethernet Service Additional Mileage charges will also be applicable.

Metro Ethernet Connection	Wavelength Dedicated Ring Arrangement Wavelength Channel
Basic 100 Mbps	Fast Ethernet at 100 Mbps
Basic 1000 Mbps	Gigabit Ethernet at 1 Gbps
Premium 10 Mbps, 20 Mbps and 50 Mbps (fixed and burst)	Fast Ethernet at 100 Mbps (C)
Premium 100 Mbps (fixed) (provisioned via a physical 100 Mbps port)	Fast Ethernet at 100 Mbps
Premium 100 Mbps (fixed) (provisioned via a physical 1000 Mbps port)	Gigabit Ethernet at 1 Gbps
Premium 100 Mbps (burst)	Gigabit Ethernet at 1 Gbps
Premium 250 Mbps and 500 Mbps (fixed and burst)	Gigabit Ethernet at 1 Gbps
Premium 1000 Mbps (fixed)	Gigabit Ethernet at 1 Gbps
Virtual 10~~,~~ Mbps, 20 Mbps, 50 Mbps and 80 Mbps	Fast Ethernet at 100 Mbps (C)
Virtual 100 Mbps (provisioned via a physical 100 Mbps port)	Fast Ethernet at 100 Mbps
Virtual 100 Mbps (provisioned via a physical 1000 Mbps port)	Gigabit Ethernet at 1 Gbps
Virtual 200 Mbps, 300 Mbps, 450 Mbps, 600 Mbps 750 Mbps, 900 Mbps and 1000 Mbps	Gigabit Ethernet at 1 Gbps

~~13~~14. In some cases, the Telephone Company and an Independent Telephone Company (ICO) may agree to jointly provide a customer Metro Ethernet Service. The rates and charges for the BellSouth Metro Ethernet Service Connection are applicable for such connectivity; charges for BellSouth Metro Ethernet Additional Mileage are also applicable when the mileage from the BellSouth/ICO meet-point to the BellSouth Metro Ethernet wire center associated with the service is over 10 miles. The Telephone Company is only responsible for the ordering, provisioning, maintaining and billing of such service up to the meet-point (i.e., demarcation point with the ICO). BellSouth Metro Ethernet Service SLA credits shall only be applicable for the portion of the service provided within the territory of the Telephone Company; such credits are appropriate only for missed commitments determined to be the fault of the Telephone Company. (T)

A40. FAST PACKET TRANSPORT SERVICES (N)

A40.13 BellSouth Metro Ethernet Service (Cont'd) (N)

A40.13.2 Regulations (Cont'd) (N)

C. Provision of Service (Cont'd) (N)

~~14~~15. Core Trunk Automatic Failover (CTAF) is an optional feature that is available, where facilities exist for Basic, Premium and Virtual BellSouth Metro Ethernet Arrangements. The CTAF feature provides customers with the option of having an Automatic Failover SLA on the data channel survivability between Bellsouth Metro Ethernet wire centers within a BellSouth Metro Ethernet core network area through the use of a secondary transport path. (N) (T)

If a Metro Ethernet Connection talks to only one other Metro Ethernet Connection (a Point-to-Point network configuration), the CTAF feature is billed based upon the actual total airline miles in a customer's specific CTAF design, as determined by the Company. The term "airline miles" is defined for this application to be the airline distance or length rounded up to the next whole mile, of the unique CTAF facility designed for each individual customer's service configuration. Total airline miles are measured between the BellSouth Metro Ethernet core network wire centers associated with the customer's service. (N)

If a Metro Ethernet Connection talks to more than one other Metro Ethernet Connection (such as a Point-to-Multipoint or Multipoint-to-Multipoint network configuration), the CTAF feature is billed once on the Metro Ethernet Connection at the 'greater than 25 through 35 airline miles' rate basis. (N)

B7. DIGITAL NETWORK SERVICE

B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)

B7.7.1 General (Cont'd)

K. (Cont'd)

10 Mbps Basic Shared Ethernet LAN, 100 Mbps Basic Shared Ethernet LAN and/or Fractional 1000 Mbps Basic Shared Ethernet LAN Customer Channel Interfaces provide multipoint functionality, i.e., Ethernet frames are delivered to two or more locations on a customer's SMARTRing service on a best effort basis. This is a multipoint connection with a bandwidth defined by a Virtual Packet Ring. A Virtual Packet Ring Connection is the medium by which two or more locations exchange Ethernet frames. The bandwidth of the Virtual Packet Ring Connection is determined by the number of STS1's reserved for the Virtual Packet Ring Connection. In order for a customer to access the Virtual Packet Ring, SMARTRing service Customer Nodes must have a 10 Mbps Basic Shared Ethernet LAN, 100 Mbps Basic Shared Ethernet LAN and/or Fractional 1000 Mbps Basic Shared Ethernet LAN interface.

SMARTRing service Basic Shared Ethernet LAN Access Links are available as follows:

	CUSTOMER NODES							
~~*Basic Shared Ethernet LAN* Access~~ Links	OC-3	OC-3+	OC-12	OC-48	OC-48+	OC-192	OC-192+	(T)
10 Mbps ~~Basic Shared Ethernet LAN Access Link -~~ Electrical	~~No~~Yes	No	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	(C)
100 Mbps ~~Basic Shared Ethernet LAN Access Link -~~ Electrical	No	No	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	(T)
100 Mbps ~~Basic Shared Ethernet LAN Access Link -~~ Optical	No	No	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	(T)
Fractional 1000 Mbps – Optical at 50 Mbps	Yes	No	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	(N)
Fractional 1000 Mbps ~~Basic Shared Ethernet LAN Access Link -~~ – Optical at ~~50 Mbps,~~ 150 Mbps, 300 Mbps or 450 Mbps	No	No	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	(T)
Fractional 1000 Mbps ~~Basic Shared Ethernet LAN Access Link –~~ Optical at 600 Mbps or 1000 Mbps	No	No	No	Yes[1]	Yes[1]	Yes[1]	Yes[1]	(C) (T)

A connection to a Basic Shared Ethernet Access Link at a Central Office Node on a ring may be made utilizing a comparable Fractional 1000 Mbps Central Office Channel Interface. (N)

The Virtual Packet Ring sizes available for the various SMARTRing service rings capacities and the Basic Shared Ethernet Access Links available on a Virtual Packet Ring are as follows:

	VIRTUAL PACKET RING SIZE (MBPS)						
SMARTRing Service Ring Capacity	50	150	300	450	600	1000	
OC-3	Yes	No	No	No	No	No	(N)
OC-12	Yes	Yes	Yes	Yes	No	No	
OC-48 or OC-48+	Yes	Yes	Yes	Yes	Yes	Yes	
OC-192 or OC-192+	Yes	Yes	Yes	Yes	Yes	Yes	

	VIRTUAL PACKET RING SIZE (MBPS)						
Basic Shared Ethernet Channel Interfaces	50	150	300	450	600	1000	
10 Mbps Basic Shared Ethernet LAN Access Link - Electrical	Yes	Yes	Yes	Yes	Yes	Yes	
100 Mbps Basic Shared Ethernet LAN Access Link - Electrical	~~Yes~~*No*	Yes	Yes	Yes	Yes	Yes	(C) (C)
100 Mbps Basic Shared Ethernet LAN Access Link - Optical	~~Yes~~*No*	Yes	Yes	Yes	Yes	Yes	(C)
Fractional 1000 Mbps Basic Shared Ethernet LAN Access Link :							(C)
– Optical at 50 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	(C)
– Optical at 150 Mbps	~~Yes~~*No*	Yes	Yes	Yes	Yes	Yes	(C)
– Optical at 300 Mbps	~~Yes~~*No*	*No*~~Yes~~	Yes	Yes	Yes	Yes	(C)
– Optical at 450 Mbps	~~Yes~~*No*	*No*~~Yes~~	*No*~~Yes~~	Yes	Yes	Yes	(C)

– Optical at 600 Mbps	~~Yes~~*No*	*No*~~Yes~~	*No*~~Yes~~	*No*~~Yes~~	Yes	Yes	~~(C)~~
– Optical at 1000 Mbps	~~Yes~~*No*	*No*~~Yes~~	*No*~~Yes~~	*No*~~Yes~~	*No*~~Yes~~	Yes	~~(N)~~

Note 1: Available for rings installed on or after May 12, 2006.

B7. DIGITAL NETWORK SERVICE (N)

B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd) (N)

B7.7.1 General (Cont'd) (N)

L. SMARTRing service ordered on or after June 15, 2009 will have an optional feature and function associated with Virtual Packet Rings (VPR). Customers will be able to transport BellSouth Metro Ethernet Service (see A40.13 in the General Exchange Price List) over SMARTRing Metro Ethernet Access Links. Connections between Metro Ethernet and SMARTRing are at SMARTRing central office nodes. The VPR will broadcast the Metro Ethernet to all Metro Ethernet Access Links associated with a specific VPR. Since this is a best effort service, the Company does not guarantee any performance levels including packet loss, latency or jitter of the customer's network if the customer chooses to oversubscribe their network. Problems associated with throughput due to the best effort service capabilities of a Virtual Packet Ring do not constitute a service interruption for which a credit allowance would apply. (N)

Virtual Packet Ring will continue to function as a Best Effort service as described in K. proceeding. (N)

The connection at the central office between Metro Ethernet and SMARTRing is Optical. The mixing of Access Link traffic and Metro Ethernet Access Link traffic on the same VPR is not supported. An out of service condition occurs when an existing Access Link is converted to a Metro Ethernet Access Link. Each node on the SMARTRing will connect to the metro Ethernet circuit via the Virtual Packet Ring and Metro Ethernet Access Links. Metro Ethernet Access Links will provide the equipment essential to Metro Ethernet reporting, statistics and customer network management. (N)

Reconfiguration associated with Customer Network Management will not be allowed on Metro Ethernet Access Links. (N)

SMARTRing service Basic Shared Ethernet LAN - Metro Ethernet Access Links are available as follows: (N)

	NODES							
Metro Ethernet Access Links – Fractional 1000 Mbps at:	**OC-3**	**OC-3+**	**OC-12**	**OC-48**	**OC-48+**	**OC-192**	**OC-192+**	(N)
150 Mbps	No	No	Yes	Yes	Yes	Yes	Yes	(N)
300 Mbps	No	No	Yes	Yes	Yes	Yes	Yes	(N)
450 Mbps	No	No	Yes	Yes	Yes	Yes	Yes	(N)
600 Mbps	No	No	No	Yes	Yes	Yes	Yes	(N)
1000 Mbps	No	No	No	Yes	Yes	Yes	Yes	(N)

B7. DIGITAL NETWORK SERVICE

B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)

B7.7.1 General (Cont'd)

(N)

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

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

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

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

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

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)

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

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

- SMARTRing service Virtual Packet Rings may be established to work with either electrical or optical Basic Shared Ethernet LAN Access Links. A Virtual Packet Ring established associated with electrical access links will only work with electrical Basic Shared Ethernet LAN Access Links and a Virtual Packet Ring established associated with optical access links will only work with optical Basic Shared Ethernet LAN Access Links. Electrical and optical access links may not be mixed on the same Virtual Packet Ring.
- Individual Basic Shared Ethernet LAN Access Links associated with a VPR may be any size, as chosen by the customer. Based on a customer oversubscribing Access Links or a VPR, (i.e., placing an amount of traffic on an Access Link(s) or a VPR that is greater than the capacity of the Access Link(s) or VPR that is subscribed to by the customer), the performance levels including packet loss, latency or jitter of the customer's network may be affected. An individual SMARTRing service arrangement may have multiple Virtual Packet Rings, up to and including the capacity of the ring. ~~(C)~~
- -Metro Ethernet Access Links must be Optical and must work with an optical VPR. Metro Ethernet Access Links are sized in a static configuration, meaning that they will not allow bursting up to the line speed. This is important when configuring Metro Ethernet, VPR and the Metro Ethernet Access Link. If the Metro Ethernet circuit supports bursting then each Metro Ethernet Access Link needs to be configured to match the maximum bandwidth allowed. The VPR will also need to be configured to match the burst capability. (N)
- -Metro Ethernet Access Link service uses the SMARTRing service as transport and broadcasts the Metro Ethernet to all Metro Ethernet Access Links associated with a specific VPR. Connection with the Metro Ethernet circuit at the SMARTRing central office node is limited to optical connections. (N)

Material previously appearing on this page now appears on page(s) 63.2 of this section.

(M)

~~- Customer requested upgrades of SMARTRing service will involve a service outage associated with Basic Shared Ethernet LAN Access Links, for which a credit for service outage shall not apply.~~

~~- Shared Node Interconnection (SNI) is available, based on equipment capability, whereby two SMARTRing service arrangements belonging to the same customer may share a node in a central office that is common to both rings.~~

Material previously appearing on this page now appears on page(s) 63.2 of this section.

B7. DIGITAL NETWORK SERVICE (N)

B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd) (N)

B7.7.3 Architecture (Cont'd) (N)

A. SMARTRing Service (Cont'd) (N)

- Metro Ethernet and SMARTRing Metro Ethernet Access Links are limited to the following connections: (N)

Metro Ethernet Connection	SMARTRing Metro Ethernet Access Link Fractional 1000 Mbps at – Central Office	SMARTRing Metro Ethernet Access Link Fractional 1000 Mbps at – Customer Premises	(N)
Basic 1000 Mbps	1000 Mbps	1000 Mbps	(N)
Premium 100 Mbps Optical (Fixed)	150 Mbps	150 Mbps	(N)
Premium 250 Mbps (Fixed)	300 Mbps	300 Mbps	(N)
Premium 500 Mbps (Fixed)	600 Mbps	600 Mbps	(N)
Premium 100, 250, 500 Mbps (Burst)	1000 Mbps	1000 Mbps	(N)
Premium 900 Mbps, 1000 Mbps	1000 Mbps	1000 Mbps	(N)
Virtual Ethernet Service 100 Mbps	150 Mbps	150 Mbps	(N)
Virtual Ethernet Service 200 Mbps	300 Mbps	300 Mbps	(N)
Virtual Ethernet Service 300 Mbps	300 Mbps	300 Mbps	(N)
Virtual Ethernet Service 450 Mbps	450 Mbps	450 Mbps	(N)
Virtual Ethernet Service 600 Mbps	600 Mbps	600 Mbps	(N)
Virtual Ethernet Service 750, 900, 1000 Mbps	1000 Mbps	1000 Mbps	(N)

- Customer requested upgrades of SMARTRing service will involve a service outage associated with Basic Shared Ethernet LAN Access Links, for which a credit for service outage shall not apply. (M)
- Shared Node Interconnection (SNI) is available, based on equipment capability, whereby two SMARTRing service arrangements belonging to the same customer may share a node in a central office that is common to both rings. (M)

Material appearing on this page previously appeared on page(s) 63.1 of this section.

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)

9. Channel Interface Capacity Reallocation

	Nonrecurring Charge	USOC
(a) Per Node, Per occurrence	**$290.00**	**SHRBC**

10. Concatenation Rearrangement Charge

	Monthly Rate	Nonrecurring Charge Initial	Nonrecurring Charge Subsequent	USOC
(a) Per OC-3, OC-12 or OC-48 optical circuit rearranged as concatenated or non-concatenated subsequent to the initial installation of the circuit	**$-**	**$-**	**$500.00**	**NRCCN**

11. SMARTRing Service Rearrangement

(a) Surveillance, Per Node, per SMARTRing service	-	-	**255.00**	**SHNRR**
(b) Reconfiguration, Per STS-1 group, per Node	-	-	**365.00**	**SHNR1**

12. Basic Shared- Ethernet LAN Access Link (T)

(a) Customer Premises Access ***Link~~s~~ Connection*** (N)

	Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC	
(1) Per 10 Mbps Basic Shared Ethernet LAN Access Link - Electrical[1]	$2,050.00	**$730.00**	**$250.00**	**$220.00**	**$200.00**	**SHN1G**	(T)
(2) Per 100 Mbps Basic Shared Ethernet LAN Access Link - Electrical[1]	2,050.00	**780.00**	**300.00**	**280.00**	**250.00**	**SHN1H**	(T)
(3) Per 100 Mbps Basic Shared Ethernet LAN Access Link – Optical 1310 nm Single-mode[1]	2,050.00	**780.00**	**300.00**	**280.00**	**250.00**	**SHN11**	(T)
(4) Per Fractional 1000 Mbps Basic Shared Ethernet LAN Access Link - Optical[1]							(T)
- 50 Mbps 850 nm Multi-mode	**2,050.00**	**750.00**	**280.00**	**250.00**	**240.00**	**SHN1S**	
- 50 Mbps 1310 nm Single-mode	**2,050.00**	**750.00**	**280.00**	**250.00**	**240.00**	**SHN3S**	
- 150 Mbps 850 nm Multi-mode	**2,050.00**	**810.00**	**330.00**	**300.00**	**280.00**	**SHN1W**	
- 150 Mbps 1310 nm Single-mode	**2,050.00**	**810.00**	**330.00**	**300.00**	**280.00**	**SHN3W**	
- 300 Mbps 850 nm Multi-mode	**2,050.00**	**870.00**	**440.00**	**410.00**	**380.00**	**SHN1X**	
- 300 Mbps 1310 nm Single-mode	**2,050.00**	**870.00**	**440.00**	**410.00**	**380.00**	**SHN3X**	
- 450 Mbps 850 nm Multi-mode	**2,050.00**	**930.00**	**490.00**	**450.00**	**420.00**	**SHN1Y**	
- 450 Mbps 1310 nm Single-mode	**2,050.00**	**930.00**	**490.00**	**450.00**	**420.00**	**SHN3Y**	
- 600 Mbps 850 nm Multi-mode	**2,050.00**	**1,020.00**	**550.00**	**490.00**	**460.00**	**SHN1Z**	
- 600 Mbps 1310 nm Single-mode	**2,050.00**	**1,020.00**	**550.00**	**490.00**	**460.00**	**SHN3Z**	
- 1000 Mbps 850 nm Multi-mode	**2,050.00**	**1,120.00**	**650.00**	**590.00**	**560.00**	**SHNJA**	(N)
- 1000 Mbps 1310 nm Single-mode	**2,050.00**	**1,120.00**	**650.00**	**590.00**	**560.00**	**SHNKA**	(N)

~~13. Virtual Packet Ring Rearrangement Charge~~ (M)

	~~Monthly Rate~~	~~Nonrecurring Charge Initial~~	~~Nonrecurring Charge Subsequent~~	~~USOC~~
~~(a) Per service order associated with a rearrangement to increase or decrease a virtual packet ring subsequent to the initial setup of the virtual packet ring~~	~~-~~	~~-~~	~~$500.00~~	~~SHNRP~~

Note 1: Basic Shared Ethernet LAN Access Link interfaces are available based on equipment capability and only at Customer Nodes.

Material previously appearing on this page now appears on page(s) 67.0.1 of this section.

B7. DIGITAL NETWORK SERVICE (N)

B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd) (N)

B7.7.4 Rates and Charges (Cont'd) (N)

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

12. Basic Shared Ethernet LAN Access Link (Cont'd) (N)

(b) Metro Ethernet Access Link Connection (N)

	Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC	
(1) Per Fractional 1000 Mbps Access Link – Metro Ethernet Customer Premises							(N)
- 150 Mbps 850 nm Multi-mode	$2,050.00	$980.00	$800.00	$500.00	$400.00	SHNMA	(N)
- 150 Mbps 1310 nm Single-mode	2,050.00	980.00	800.00	500.00	400.00	SHNSA	(N)
- 300 Mbps 850 nm Multi-mode	2,050.00	1,220.00	930.00	580.00	540.00	SHNMB	(N)
- 300 Mbps 1310 nm Single-mode	2,050.00	1,220.00	930.00	580.00	540.00	SHNSB	(N)
- 450 Mbps 850 nm Multi-mode	2,050.00	1,310.00	990.00	630.00	590.00	SHNMC	(N)
- 450 Mbps 1310 nm Single-mode	2,050.00	1,310.00	990.00	630.00	590.00	SHNSC	(N)
- 600 Mbps 850 nm Multi-mode	2,050.00	1,430.00	1,075.00	690.00	650.00	SHNMD	(N)
- 600 Mbps 1310 nm Single-mode	2,050.00	1,430.00	1,075.00	690.00	650.00	SHNSD	(N)
- 1000 Mbps 850 nm Multi-mode	2,050.00	1,570.00	1,200.00	830.00	790.00	SHNME	(N)
- 1000 Mbps 1310 nm Single-mode	2,050.00	1,570.00	1,200.00	830.00	790.00	SHNSE	(N)
(2) Per Fractional 1000 Mbps Access Link – Metro Ethernet Central Office							(N)
- 150 Mbps	2,050.00	980.00	800.00	500.00	400.00	SHNOA	(N)
- 300 Mbps	2,050.00	1,220.00	930.00	580.00	540.00	SHNOB	(N)
- 450 Mbps	2,050.00	1,310.00	990.00	630.00	590.00	SHNOC	(N)
- 600 Mbps	2,050.00	1,430.00	1,075.00	690.00	650.00	SHNOD	(N)
- 1000 Mbps	2,050.00	1,570.00	1,200.00	830.00	790.00	SHNOE	(N)

13. Virtual Packet Ring Rearrangement Charge (M)

	Monthly Rate	Nonrecurring Charge Initial	Nonrecurring Charge Subsequent	USOC	
(a) Per service order associated with a rearrangement to increase or decrease a virtual packet ring subsequent to the initial setup of the virtual packet ring	-	-	$500.00	SHNRP	(M)

A40. FAST PACKET TRANSPORT SERVICES

A40.13 BellSouth Metro Ethernet Service (Cont'd)

A40.13.2 Regulations (Cont'd)

C. Provision of Service (Cont'd)

11. Basic, Premium and Virtual BellSouth Metro Ethernet Service Connections of 10 Mbps or higher may alternatively be provided to a customer premises over the customer's LightGate service or SMARTRing service.

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

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

When the LightGate service or SMARTRing service central office node is located greater than 10 miles from the BellSouth Metro Ethernet Service wire center, BellSouth Metro Ethernet Service Additional Mileage charges will also be applicable.

Metro Ethernet connections to SMARTRing can be either point-to-point or they can connect to Basic Shared Ethernet LAN service via Metro Ethernet Access Links. (N)

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

Point-to-Point Metro Ethernet Connection to SMARTRing Service (N)

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

A40. FAST PACKET TRANSPORT SERVICES (N)

A40.13 BellSouth Metro Ethernet Service (Cont'd) (N)

A40.13.2 Regulations (Cont'd) (N)

C. Provision of Service (Cont'd) (N)

12. As of June 15, 2009, Metro Ethernet customers will be able to use SMARTRing as a transport facility and connect to the Basic Shared Ethernet LAN service Virtual Packet Ring (VPR) via Metro Ethernet Access Links. The Virtual Packet ring creates a dedicated allotment of synchronous transmission signals (STS1's) on the SMARTRing that are connected via the Metro Ethernet Access Links. This combination of VPR and Access Links with the Metro Ethernet circuit will create a multi-point circuit on the SMARTRing. All Metro Ethernet transmissions will be broadcast to all Metro Ethernet Access Links associated with the specific VPR. Metro Ethernet Access Links are considered Layer 1 ports on the SMARTRing and do not interact with Layer 2 information transmitted by the Metro Ethernet switch, specifically Class of Service, priority or 802.1q. This Metro Ethernet Layer 2 information will pass through the Metro Ethernet Access Links to the customer equipment. (N)

    The connection at the Central Office between Metro Ethernet and SMARTRing is Optical. The mixing of Access Link traffic and Metro Ethernet Access Link traffic on the same VPR is not supported. When the customer requests conversion of Access Links to Metro Ethernet Access Links, an out of service condition will occur until the conversion is complete, and the service will not be available for use during this time. (N)

    Reconfiguration associated with Customer Network Management will not be allowed on Metro Ethernet Access Links. (N)

    Additional rules for connecting Metro Ethernet to SMARTRing service are stated in the Private Line Price List, B7.7.7. (N)

    Metro Ethernet connections to SMARTRing Metro Ethernet Access Links are limited to the following connections and speeds: (N)

Metro Ethernet Connection	**SMARTRing Metro Ethernet Access Link Fractional 1000 Mbps at – Central Office**	**SMARTRing Metro Ethernet Access Link Fractional 1000 Mbps at – Customer Premises**	(N)
Basic 1000 Mbps	1000 Mbps	1000 Mbps	(N)
Premium 100 Mbps Optical (Fixed)	150 Mbps	150 Mbps	(N)
Premium 250 Mbps (Fixed)	300 Mbps	300 Mbps	(N)
Premium 500 Mbps (Fixed)	600 Mbps	600 Mbps	(N)
Premium 100, 250, 500, 900 Mbps (Burst)	1000 Mbps	1000 Mbps	(N)
Premium 900 Mbps, 1000 Mbps	1000 Mbps	1000 Mbps	(N)
Virtual Ethernet Service 100 Mbps	150 Mbps	150 Mbps	(N)
Virtual Ethernet Service 200 Mbps	300 Mbps	300 Mbps	(N)
Virtual Ethernet Service 300 Mbps	300 Mbps	300 Mbps	(N)
Virtual Ethernet Service 450 Mbps	450 Mbps	450 Mbps	(N)
Virtual Ethernet Service 600 Mbps	600 Mbps	600 Mbps	(N)
Virtual Ethernet Service 750, 900, 1000 Mbps	1000 Mbps	1000 Mbps	(N)

A40. FAST PACKET TRANSPORT SERVICES

A40.13 BellSouth Metro Ethernet Service (Cont'd)

A40.13.2 Regulations (Cont'd)

C. Provision of Service (Cont'd)

13. Basic, Premium and Virtual BellSouth Metro Ethernet Service Connections of 100 Mbps and 1000 Mbps may alternatively be provided to a customer premises over a customer's BellSouth Wavelength service Dedicated Ring Arrangement. (T)

The customer is required to purchase the appropriate BellSouth Wavelength service Dedicated Ring Arrangement Wavelength Channel for the specific type and speed of BellSouth Metro Ethernet Service Connection serving that customer premises. (A chart is provided herein which sets forth the Wavelength Channel associated with the 100 Mbps and 1000 Mbps BellSouth Metro Ethernet Service Connection.)

For such applications using BellSouth Wavelength service as alternate transport, the BellSouth Metro Ethernet Service Connection will provide data channel transport from the BellSouth Metro Ethernet Service wire center associated with the BellSouth Metro Ethernet Service Connection (i.e., the central office of the Metro Ethernet Service switch) to the central office Node Location of the customer's BellSouth Wavelength service Dedicated Ring Arrangement.

When the central office Node Location of the customer's BellSouth Wavelength service Dedicated Ring Arrangement is located greater than 10 miles from the BellSouth Metro Ethernet Service wire center, BellSouth Metro Ethernet Service Additional Mileage charges will also be applicable.

Metro Ethernet Connection	**Wavelength Dedicated Ring Arrangement Wavelength Channel**
Basic 100 Mbps	Fast Ethernet at 100 Mbps
Basic 1000 Mbps	Gigabit Ethernet at 1 Gbps
Premium 10 Mbps, 20 Mbps and 50 Mbps (fixed and burst)	Fast Ethernet at 100 Mbps
Premium 100 Mbps (fixed) (provisioned via a physical 100 Mbps port)	Fast Ethernet at 100 Mbps
Premium 100 Mbps (fixed) (provisioned via a physical 1000 Mbps port)	Gigabit Ethernet at 1 Gbps
Premium 100 Mbps (burst)	Gigabit Ethernet at 1 Gbps
Premium 250 Mbps and 500 Mbps (fixed and burst)	Gigabit Ethernet at 1 Gbps
Premium 1000 Mbps (fixed)	Gigabit Ethernet at 1 Gbps
Virtual 10 Mbps, 20 Mbps, 50 Mbps and 80 Mbps	Fast Ethernet at 100 Mbps
Virtual 100 Mbps (provisioned via a physical 100 Mbps port)	Fast Ethernet at 100 Mbps
Virtual 100 Mbps (provisioned via a physical 1000 Mbps port)	Gigabit Ethernet at 1 Gbps
Virtual 200 Mbps, 300 Mbps, 450 Mbps, 600 Mbps 750 Mbps, 900 Mbps and 1000 Mbps	Gigabit Ethernet at 1 Gbps

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

A40. FAST PACKET TRANSPORT SERVICES

A40.13 BellSouth Metro Ethernet Service (Cont'd)

A40.13.2 Regulations (Cont'd)

C. Provision of Service (Cont'd)

15. Core Trunk Automatic Failover (CTAF) is an optional feature that is available, where facilities exist for Basic, Premium and Virtual BellSouth Metro Ethernet Arrangements. The CTAF feature provides customers with the option of having an Automatic Failover SLA on the data channel survivability between Bellsouth Metro Ethernet wire centers within a BellSouth Metro Ethernet core network area through the use of a secondary transport path. (T)

If a Metro Ethernet Connection talks to only one other Metro Ethernet Connection (a Point-to-Point network configuration), the CTAF feature is billed based upon the actual total airline miles in a customer's specific CTAF design, as determined by the Company. The term "airline miles" is defined for this application to be the airline distance or length rounded up to the next whole mile, of the unique CTAF facility designed for each individual customer's service configuration. Total airline miles are measured between the BellSouth Metro Ethernet core network wire centers associated with the customer's service.

If a Metro Ethernet Connection talks to more than one other Metro Ethernet Connection (such as a Point-to-Multipoint or Multipoint-to-Multipoint network configuration), the CTAF feature is billed once on the Metro Ethernet Connection at the 'greater than 25 through 35 airline miles' rate basis.

B7. DIGITAL NETWORK SERVICE

B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)

B7.7.1 General (Cont'd)

K. (Cont'd)

10 Mbps Basic Shared Ethernet LAN, 100 Mbps Basic Shared Ethernet LAN and/or Fractional 1000 Mbps Basic Shared Ethernet LAN Customer Channel Interfaces provide multipoint functionality, i.e., Ethernet frames are delivered to two or more locations on a customer's SMARTRing service on a best effort basis. This is a multipoint connection with a bandwidth defined by a Virtual Packet Ring. A Virtual Packet Ring Connection is the medium by which two or more locations exchange Ethernet frames. The bandwidth of the Virtual Packet Ring Connection is determined by the number of STS1's reserved for the Virtual Packet Ring Connection. In order for a customer to access the Virtual Packet Ring, SMARTRing service Customer Nodes must have a 10 Mbps Basic Shared Ethernet LAN, 100 Mbps Basic Shared Ethernet LAN and/or Fractional 1000 Mbps Basic Shared Ethernet LAN interface.

SMARTRing service Basic Shared Ethernet LAN Access Links are available as follows:

	CUSTOMER NODES							
***Basic Shared Ethernet LAN* Access Links**	**OC-3**	**OC-3+**	**OC-12**	**OC-48**	**OC-48+**	**OC-192**	**OC-192+**	(T)
10 Mbps - Electrical	Yes	No	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	(C)
100 Mbps - Electrical	No	No	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	(T)
100 Mbps - Optical	No	No	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	(T)
Fractional 1000 Mbps – Optical at 50 Mbps	Yes	No	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	(N)
Fractional 1000 Mbps – Optical at 150 Mbps, 300 Mbps or 450 Mbps	No	No	Yes[1]	Yes[1]	Yes[1]	Yes[1]	Yes[1]	(T)
Fractional 1000 Mbps – Optical at 600 Mbps or 1000 Mbps	No	No	No	Yes[1]	Yes[1]	Yes[1]	Yes[1]	(T)

A connection to a Basic Shared Ethernet Access Link at a Central Office Node on a ring may be made utilizing a comparable Fractional 1000 Mbps Central Office Channel Interface.

The Virtual Packet Ring sizes available for the various SMARTRing service rings capacities and the Basic Shared Ethernet Access Links available on a Virtual Packet Ring are as follows:

	VIRTUAL PACKET RING SIZE (MBPS)					
SMARTRing Service Ring Capacity	**50**	**150**	**300**	**450**	**600**	**1000**
OC-3	Yes	No	No	No	No	No
OC-12	Yes	Yes	Yes	Yes	No	No
OC-48 or OC-48+	Yes	Yes	Yes	Yes	Yes	Yes
OC-192 or OC-192+	Yes	Yes	Yes	Yes	Yes	Yes

	VIRTUAL PACKET RING SIZE (MBPS)						
Basic Shared Ethernet Channel Interfaces	**50**	**150**	**300**	**450**	**600**	**1000**	
10 Mbps Basic Shared Ethernet LAN Access Link - Electrical	Yes	Yes	Yes	Yes	Yes	Yes	
100 Mbps Basic Shared Ethernet LAN Access Link - Electrical	***No***	Yes	Yes	Yes	Yes	Yes	(C)
100 Mbps Basic Shared Ethernet LAN Access Link - Optical	***No***	Yes	Yes	Yes	Yes	Yes	(C)
Fractional 1000 Mbps Basic Shared Ethernet LAN Access Link :							
– Optical at 50 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	
– Optical at 150 Mbps	***No***	Yes	Yes	Yes	Yes	Yes	(C)
– Optical at 300 Mbps	***No***	***No***	Yes	Yes	Yes	Yes	(C)
– Optical at 450 Mbps	***No***	***No***	***No***	Yes	Yes	Yes	(C)
– Optical at 600 Mbps	***No***	***No***	***No***	***No***	Yes	Yes	(C)
– Optical at 1000 Mbps	***No***	***No***	***No***	***No***	***No***	Yes	(C)

Note 1: Available for rings installed on or after May 12, 2006.

B7. DIGITAL NETWORK SERVICE (N)

B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd) (N)

B7.7.1 General (Cont'd) (N)

L. SMARTRing service ordered on or after June 15, 2009 will have an optional feature and function associated with Virtual Packet Rings (VPR). Customers will be able to transport BellSouth Metro Ethernet Service (see A40.13 in the General Exchange Price List) over SMARTRing Metro Ethernet Access Links. Connections between Metro Ethernet and SMARTRing are at SMARTRing central office nodes. The VPR will broadcast the Metro Ethernet to all Metro Ethernet Access Links associated with a specific VPR. Since this is a best effort service, the Company does not guarantee any performance levels including packet loss, latency or jitter of the customer's network if the customer chooses to oversubscribe their network. Problems associated with throughput due to the best effort service capabilities of a Virtual Packet Ring do not constitute a service interruption for which a credit allowance would apply. (N)

Virtual Packet Ring will continue to function as a Best Effort service as described in K. proceeding. (N)

The connection at the central office between Metro Ethernet and SMARTRing is Optical. The mixing of Access Link traffic and Metro Ethernet Access Link traffic on the same VPR is not supported. An out of service condition occurs when an existing Access Link is converted to a Metro Ethernet Access Link. Each node on the SMARTRing will connect to the metro Ethernet circuit via the Virtual Packet Ring and Metro Ethernet Access Links. Metro Ethernet Access Links will provide the equipment essential to Metro Ethernet reporting, statistics and customer network management. (N)

Reconfiguration associated with Customer Network Management will not be allowed on Metro Ethernet Access Links. (N)

SMARTRing service Basic Shared Ethernet LAN - Metro Ethernet Access Links are available as follows: (N)

	NODES							
Metro Ethernet Access Links – Fractional 1000 Mbps at:	**OC-3**	**OC-3+**	**OC-12**	**OC-48**	**OC-48+**	**OC-192**	**OC-192+**	(N)
150 Mbps	No	No	Yes	Yes	Yes	Yes	Yes	(N)
300 Mbps	No	No	Yes	Yes	Yes	Yes	Yes	(N)
450 Mbps	No	No	Yes	Yes	Yes	Yes	Yes	(N)
600 Mbps	No	No	No	Yes	Yes	Yes	Yes	(N)
1000 Mbps	No	No	No	Yes	Yes	Yes	Yes	(N)

B7. DIGITAL NETWORK SERVICE

B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd)

B7.7.1 General (Cont'd)

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

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

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

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

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

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)

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

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

- SMARTRing service Virtual Packet Rings may be established to work with either electrical or optical Basic Shared Ethernet LAN Access Links. A Virtual Packet Ring established associated with electrical access links will only work with electrical Basic Shared Ethernet LAN Access Links and a Virtual Packet Ring established associated with optical access links will only work with optical Basic Shared Ethernet LAN Access Links. Electrical and optical access links may not be mixed on the same Virtual Packet Ring.
- Individual Basic Shared Ethernet LAN Access Links associated with a VPR may be any size, as chosen by the customer. Based on a customer oversubscribing Access Links or a VPR, (i.e., placing an amount of traffic on an Access Link(s) or a VPR that is greater than the capacity of the Access Link(s) or VPR that is subscribed to by the customer), the performance levels including packet loss, latency or jitter of the customer's network may be affected. An individual SMARTRing service arrangement may have multiple Virtual Packet Rings, up to and including the capacity of the ring.
- Metro Ethernet Access Links must be Optical and must work with an optical VPR. Metro Ethernet Access Links are sized in a static configuration, meaning that they will not allow bursting up to the line speed. This is important when configuring Metro Ethernet, VPR and the Metro Ethernet Access Link. If the Metro Ethernet circuit supports bursting then each Metro Ethernet Access Link needs to be configured to match the maximum bandwidth allowed. The VPR will also need to be configured to match the burst capability. (N)
- Metro Ethernet Access Link service uses the SMARTRing service as transport and broadcasts the Metro Ethernet to all Metro Ethernet Access Links associated with a specific VPR. Connection with the Metro Ethernet circuit at the SMARTRing central office node is limited to optical connections. (N)

(M)

Material previously appearing on this page now appears on page(s) 63.2 of this section.

B7. DIGITAL NETWORK SERVICE (N)

B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd) (N)

B7.7.3 Architecture (Cont'd) (N)

A. SMARTRing Service (Cont'd) (N)

- Metro Ethernet and SMARTRing Metro Ethernet Access Links are limited to the following connections: (N)

Metro Ethernet Connection	**SMARTRing Metro Ethernet Access Link Fractional 1000 Mbps at – Central Office**	**SMARTRing Metro Ethernet Access Link Fractional 1000 Mbps at – Customer Premises**	(N)
Basic 1000 Mbps	1000 Mbps	1000 Mbps	(N)
Premium 100 Mbps Optical (Fixed)	150 Mbps	150 Mbps	(N)
Premium 250 Mbps (Fixed)	300 Mbps	300 Mbps	(N)
Premium 500 Mbps (Fixed)	600 Mbps	600 Mbps	(N)
Premium 100, 250, 500 Mbps (Burst)	1000 Mbps	1000 Mbps	(N)
Premium 900 Mbps, 1000 Mbps	1000 Mbps	1000 Mbps	(N)
Virtual Ethernet Service 100 Mbps	150 Mbps	150 Mbps	(N)
Virtual Ethernet Service 200 Mbps	300 Mbps	300 Mbps	(N)
Virtual Ethernet Service 300 Mbps	300 Mbps	300 Mbps	(N)
Virtual Ethernet Service 450 Mbps	450 Mbps	450 Mbps	(N)
Virtual Ethernet Service 600 Mbps	600 Mbps	600 Mbps	(N)
Virtual Ethernet Service 750, 900, 1000 Mbps	1000 Mbps	1000 Mbps	(N)

- Customer requested upgrades of SMARTRing service will involve a service outage associated with Basic Shared Ethernet LAN Access Links, for which a credit for service outage shall not apply. (M)
- Shared Node Interconnection (SNI) is available, based on equipment capability, whereby two SMARTRing service arrangements belonging to the same customer may share a node in a central office that is common to both rings. (M)

Material appearing on this page previously appeared on page(s) 63.1 of this section.

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)

9. Channel Interface Capacity Reallocation

	Nonrecurring Charge	USOC
(a) Per Node, Per occurrence	**$290.00**	**SHRBC**

10. Concatenation Rearrangement Charge

	Monthly Rate	Nonrecurring Charge Initial	Nonrecurring Charge Subsequent	USOC
(a) Per OC-3, OC-12 or OC-48 optical circuit rearranged as concatenated or non-concatenated subsequent to the initial installation of the circuit	**$-**	**$-**	**$500.00**	**NRCCN**

11. SMARTRing Service Rearrangement

(a) Surveillance, Per Node, per SMARTRing service	-	-	**255.00**	**SHNRR**
(b) Reconfiguration, Per STS-1 group, per Node	-	-	**365.00**	**SHNR1**

12. Basic Shared Ethernet LAN Access Link

(a) Customer Premises Access ***Link Connection*** (T)

	Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC
(1) Per 10 Mbps Basic Shared Ethernet LAN Access Link - Electrical[1]	$2,050.00	**$730.00**	**$250.00**	**$220.00**	**$200.00**	**SHN1G**
(2) Per 100 Mbps Basic Shared Ethernet LAN Access Link - Electrical[1]	2,050.00	**780.00**	**300.00**	**280.00**	**250.00**	**SHN1H**
(3) Per 100 Mbps Basic Shared Ethernet LAN Access Link – Optical 1310 nm Single-mode[1]	2,050.00	**780.00**	**300.00**	**280.00**	**250.00**	**SHN11**
(4) Per Fractional 1000 Mbps Basic Shared Ethernet LAN Access Link - Optical[1]						
- 50 Mbps 850 nm Multi-mode	**2,050.00**	**750.00**	**280.00**	**250.00**	**240.00**	**SHN1S**
- 50 Mbps 1310 nm Single-mode	**2,050.00**	**750.00**	**280.00**	**250.00**	**240.00**	**SHN3S**
- 150 Mbps 850 nm Multi-mode	**2,050.00**	**810.00**	**330.00**	**300.00**	**280.00**	**SHN1W**
- 150 Mbps 1310 nm Single-mode	**2,050.00**	**810.00**	**330.00**	**300.00**	**280.00**	**SHN3W**
- 300 Mbps 850 nm Multi-mode	**2,050.00**	**870.00**	**440.00**	**410.00**	**380.00**	**SHN1X**
- 300 Mbps 1310 nm Single-mode	**2,050.00**	**870.00**	**440.00**	**410.00**	**380.00**	**SHN3X**
- 450 Mbps 850 nm Multi-mode	**2,050.00**	**930.00**	**490.00**	**450.00**	**420.00**	**SHN1Y**
- 450 Mbps 1310 nm Single-mode	**2,050.00**	**930.00**	**490.00**	**450.00**	**420.00**	**SHN3Y**
- 600 Mbps 850 nm Multi-mode	**2,050.00**	**1,020.00**	**550.00**	**490.00**	**460.00**	**SHN1Z**
- 600 Mbps 1310 nm Single-mode	**2,050.00**	**1,020.00**	**550.00**	**490.00**	**460.00**	**SHN3Z**
- 1000 Mbps 850 nm Multi-mode	**2,050.00**	**1,120.00**	**650.00**	**590.00**	**560.00**	**SHNJA**
- 1000 Mbps 1310 nm Single-mode	**2,050.00**	**1,120.00**	**650.00**	**590.00**	**560.00**	**SHNKA**

(M)

Note 1: Basic Shared Ethernet LAN Access Link interfaces are available based on equipment capability and only at Customer Nodes.

Material previously appearing on this page now appears on page(s) 67.0.1 of this section.

B7. DIGITAL NETWORK SERVICE (N)

B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (SMARTRing) Service (Cont'd) (N)

B7.7.4 Rates and Charges (Cont'd) (N)

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

12. Basic Shared Ethernet LAN Access Link (Cont'd) (N)

(b) Metro Ethernet Access Link Connection (N)

	Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC	
(1) Per Fractional 1000 Mbps Access Link – Metro Ethernet Customer Premises							(N)
- 150 Mbps 850 nm Multi-mode	**$2,050.00**	**$980.00**	**$800.00**	**$500.00**	**$400.00**	**SHNMA**	(N)
- 150 Mbps 1310 nm Single-mode	**2,050.00**	**980.00**	**800.00**	**500.00**	**400.00**	**SHNSA**	(N)
- 300 Mbps 850 nm Multi-mode	**2,050.00**	**1,220.00**	**930.00**	**580.00**	**540.00**	**SHNMB**	(N)
- 300 Mbps 1310 nm Single-mode	**2,050.00**	**1,220.00**	**930.00**	**580.00**	**540.00**	**SHNSB**	(N)
- 450 Mbps 850 nm Multi-mode	**2,050.00**	**1,310.00**	**990.00**	**630.00**	**590.00**	**SHNMC**	(N)
- 450 Mbps 1310 nm Single-mode	**2,050.00**	**1,310.00**	**990.00**	**630.00**	**590.00**	**SHNSC**	(N)
- 600 Mbps 850 nm Multi-mode	**2,050.00**	**1,430.00**	**1,075.00**	**690.00**	**650.00**	**SHNMD**	(N)
- 600 Mbps 1310 nm Single-mode	**2,050.00**	**1,430.00**	**1,075.00**	**690.00**	**650.00**	**SHNSD**	(N)
- 1000 Mbps 850 nm Multi-mode	**2,050.00**	**1,570.00**	**1,200.00**	**830.00**	**790.00**	**SHNME**	(N)
- 1000 Mbps 1310 nm Single-mode	**2,050.00**	**1,570.00**	**1,200.00**	**830.00**	**790.00**	**SHNSE**	(N)
(2) Per Fractional 1000 Mbps Access Link – Metro Ethernet Central Office							(N)
- 150 Mbps	**2,050.00**	**980.00**	**800.00**	**500.00**	**400.00**	**SHNOA**	(N)
- 300 Mbps	**2,050.00**	**1,220.00**	**930.00**	**580.00**	**540.00**	**SHNOB**	(N)
- 450 Mbps	**2,050.00**	**1,310.00**	**990.00**	**630.00**	**590.00**	**SHNOC**	(N)
- 600 Mbps	**2,050.00**	**1,430.00**	**1,075.00**	**690.00**	**650.00**	**SHNOD**	(N)
- 1000 Mbps	**2,050.00**	**1,570.00**	**1,200.00**	**830.00**	**790.00**	**SHNOE**	(N)

13. Virtual Packet Ring Rearrangement Charge (M)

	Monthly Rate	Nonrecurring Charge			
		Initial	Subsequent	USOC	
(a) Per service order associated with a rearrangement to increase or decrease a virtual packet ring subsequent to the initial setup of the virtual packet ring	-	-	**$500.00**	**SHNRP**	(M)

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