

## ACCESS SERVICE

## RATES, RULES AND CHARGES

Title Page and Pages 1 to 22-45, inclusive of this tariff are effective as of the date shown. Original and revised pages as named below and Supplement No. 6 contains all changes from the original tariff that are in effect on the date hereof.

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\* New or Revised

(This page filed under Transmittal No. 130)

Issued: May 26, 2006

Effective: June 10, 2006

Chief Marketing Officer  
Four AT&T Plaza, Dallas, Texas 75202

ACCESS SERVICE  
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\*New or Revised

(This page filed under Transmittal No. 130)

Issued: May 26, 2006

Effective: June 10, 2006

Four AT&amp;T Plaza, Dallas, Texas 75202

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24-11	Original	26-3	Original
24-12	1st	26-4	3rd*
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24-14	1st	26-6	1st
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\*New or Revised

(This page filed under Transmittal No. 130)

Issued: May 26, 2006

Effective: June 30, 2006

Four AT&amp;T Plaza, Dallas, Texas 75202

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RATES, RULES AND CHARGES  
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This page filed under Transmittal No. 130)

Issued: May 26, 2006

Effective: June 10, 2006

Four AT&amp;T Plaza, Dallas, Texas 75202

## ACCESS SERVICE

21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(3) OCN Point-to-Point Network Survivability

There are 4 components of OCN Network Survivability:

(C)

- (a) 1+1 Protection
- (b) 1+1 Protection with Cable Survivability
- (c) 1+1 Protection with Route Survivability
- (d) 1+1 Protection with Diversity

(N)

(a) 1+1 Protection

This option provides two identical fiber pairs that are placed in the same cable and follows the same route. If the working pair fails, traffic shifts to the protected fiber pair. This option does not protect against a fiber cable cut.

The protected OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192/OC-192c Services are offered with four fibers in the same cable and the protection card is activated when this option is ordered.

(b) 1+1 Protection with Cable Survivability

With this option, the working fiber pairs and the protected fiber pairs are located in two separate cables within the same conduit. If the working fiber pair cable experiences damages or a fiber cut, traffic will switch to the protected fiber pair in a separate cable. These cables are located in the same conduit, if the conduit is cut, there is no protection.

This option will provide 1+1 protection and additional loop survivability with the working fiber pair and protect fiber pair placed in separate cables within the same conduit.

(c) 1+1 Protection with Route Survivability

This option will provide 1+1 protection and offer additional protection from fiber cable cuts by routing the working fiber pair via the primary route and the protected fiber pair via a physically diverse alternate route.

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## ACCESS SERVICE

21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)

(N)

21.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(3) OCN Point-to-Point Network Survivability<sup>(1)</sup> (Cont'd)(d) 1+1 Protection with Diversity

This option will provide end-to-end diversity from A-Z for the second like service. It requires 1+1 Protection with Route Survivability for each customer premises or Local Distribution Channel (LDC). For the inter-office portion, the 1+1 Protection with Diversity rate will cover any additional air-line mileage between serving wire centers.

This is the only option that will assure 100% availability from end-to-end of the service. Any service interruption of both services at the same time will result in a credit of one month's bill for the second circuit. If the interruption occurs on a section of the service where commonality has been identified to the customer, normal terms and conditions for out of service credits, as stated in 2.4.4, preceding, will apply. An interruption period will start when an inoperative service is reported to the Telephone Company, and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element.

All other terms and conditions for Credit Allowances, as stated in 2.4.4, preceding, will apply.

Prior to confirming an order for service, the Telephone Company will provide a proposed route diagram to the customer. The diagram will include the number of quarter route miles and method used to support the number needed to provide the alternate route. In order to avoid compromising Route Survivability information, the Telephone Company will provide this information only to the ordering customer.

Installation of the 1+1 Protection with Diversity option will not begin until the customer has accepted the proposed routing by the Telephone Company.

<sup>(1)</sup>OCN Point-to-Point Network Survivability is available on OC-3/OC-3c, OC-12/OC-12c and OC-48/OC-48c Services only.

(N)

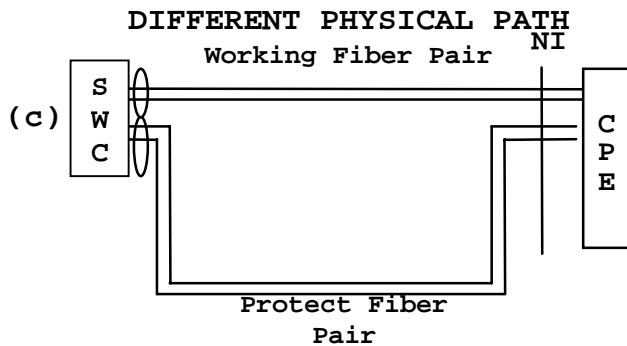
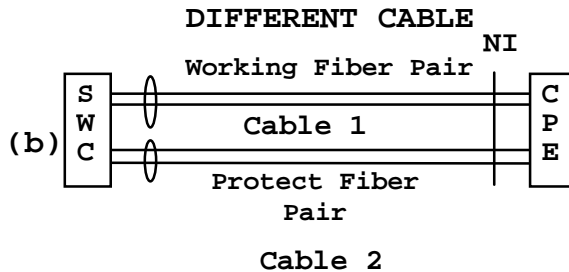
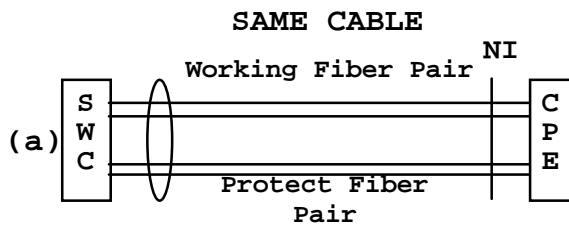
(This page filed under Transmittal No. 130)

## ACCESS SERVICE

21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(3) OCN Point-to-Point Network Survivability<sup>(1)</sup> (Cont'd)

The following diagrams provide an example of (a),  
(b), (c) and (d) above:

(T)



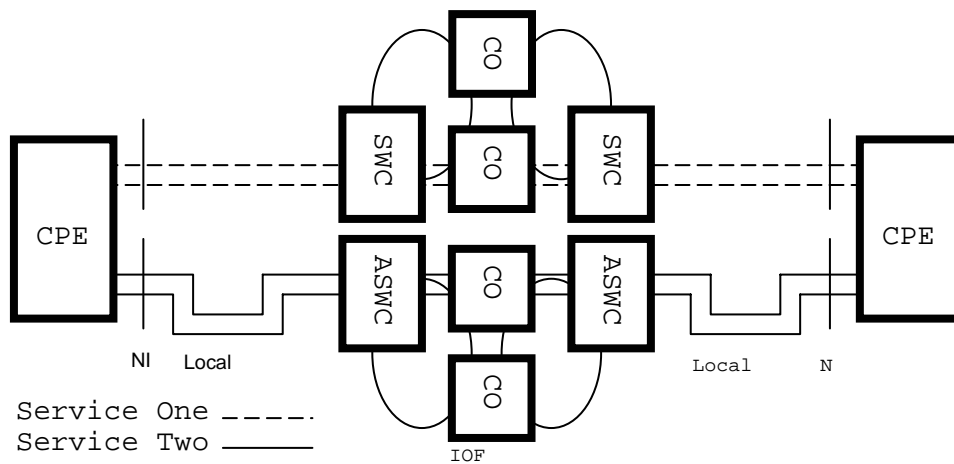
<sup>(1)</sup>OCN Point-to-Point Network Survivability is available on OC-3/OC-3c, OC-12/OC-12c and OC-48/OC-48c Services only.

(This page filed under Transmittal No. 130)

## ACCESS SERVICE

21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(3) OCN Point-to-Point Network Survivability<sup>(1)</sup> (Cont'd)

Diagram (d):

OC-N PTP Survivability with Diversity (Two Circuits Diverse E-E,  
same locations)

(This page filed under Transmittal No. 130)

Issued: May 26, 2006

Effective: June 10, 2006

Four AT&amp;T Plaza, Dallas, Texas 75202



## ACCESS SERVICE

21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.3 Rates and Charges (Cont'd)(A) OC-3/OC-3c (Cont'd)

	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>
(4) <u>Optional Features and Functions (Cont'd)</u>			
(f) <u>Shared Network Arrangement</u>			
-Processing Charge per Service Order	NRBOP	\$0	\$30.00
(g) 1+1 Protection with Diversity <sup>(1)</sup>			
-Per OC-3/OC-3c Local Distribution	P8T	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)	
-Per Quarter Route Mile	S2DXY	\$50.00	\$0
-Per OC-3/OC-3c	CPAPA	\$200.00	\$0

(N)  
|  
(N)(5) Moves (OC-3/OC-3c)(a) Service Rearrangement

See Section 7.2.4, preceding for rates and charges.

(b) Moves of Point of Termination

See Section 13.4, preceding for rates and charges.

(c) Moving Customer Premises

See Section 7.2.7, preceding for rates and charges.

<sup>(1)</sup> The 1+1 Protection with Route Survivability is required for each end of the second service.(N)  
(N)

(This page filed under Transmittal No. 130)

## ACCESS SERVICE

21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.3 Rates and Charges (Cont'd)(B) OC-12/OC-12c (Cont'd)

	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>	
(4) <u>Optional</u> <u>Features and</u> <u>Functions</u> (Cont'd)				
(f) <u>Shared</u> <u>Network</u> <u>Arrangement</u> -Processing Charge per Service Order	NRBOP	\$0	\$30.00	
(g) 1+1 Protection with Diversity <sup>(1)</sup> -Per OC-12/OC-12c Local Distribution	P8T	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)		(N)
-Per Quarter Route Mile	S2DXY	\$100.00	\$0	
-Per OC-12/OC-12c	CPAPB	\$300.00	\$0	(N)
(5) <u>Moves (OC-12/OC-12c)</u>				
(a) <u>Service Rearrangements</u> See Section 7.2.4, preceding for rates and charges.				
(b) <u>Moves of Point of Termination</u> See Section 13.4, preceding for rates and charges.				
(c) <u>Moving Customer Premises</u> See Section 7.2.7, preceding for rates and charges.				

<sup>(1)</sup> The 1+1 Protection with Route Survivability is required for each end of the second service.

(N)  
(N)

(This page filed under Transmittal No. 130)

## ACCESS SERVICE

21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.3 Rates and Charges (Cont'd)(C) OC-48/OC-48c (Cont'd)

	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>	
(4) <u>Optional Features and Functions</u> (Cont'd)				
(f) <u>Point-to-Point OC-48 Regenerator</u> -each	RGY48	\$5,500.00	\$0	
(g) <u>Shared Network Arrangement</u> -Processing Charge per Service Order	NRBOP	\$0	\$30.00	
(h) 1+1 Protection with Diversity <sup>(1)</sup> -Per OC-48/OC-48c Local Distribution	P8T	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)		(N)
-Per Quarter Route Mile	S2DXY	\$125.00	\$0	
-Per OC-48/OC-48c	CPAPC	\$700.00	\$0	(N)

(5) Moves (OC-48/OC-48c)(a) Service Rearrangement

See Section 7.2.2, preceding for rates and charges.

(b) Moves of Point of Termination

See Section 7.2.3, preceding for rates and charges.

(c) Moving Customer Premises

See Section 7.2.3, preceding for rates and charges.

<sup>(1)</sup> The 1+1 Protection with Route Survivability is required for each end of the second service.

(This page filed under Transmittal No. 130)

## ACCESS SERVICE

21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.3 Rates and Charges (Cont'd)(D) OC-192/OC-192c (Cont'd)

	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>	
(4) <u>Optional Feature and Functions (Cont'd)</u>				
(b) <u>Add/Drop Function (Cont'd)</u>				
-Per OC-12	MXJEX	\$625.00	\$0	
-Per OC-3	MXJCX	\$250.00	\$0	
(c) <u>1+1 Protection</u>				
-Per OC-192/OC-192c Local Distribution Channel	P8T	\$2,700.00	\$0	
(d) <u>1+1 Protection with Cable Survivability</u>				
-Per OC-192/OC-192c Local Distribution Channel	P3S	\$2,700.00	\$800.00	
(e) <u>1+1 Protection with Route Survivability</u>				
-Per OC-192/OC-192c Local Distribution Channel		(Apply P8T rate above, P8Tplus Per Quarter Route Mile below) (P8T + S2DXY)		
-Per Quarter Route Mile	S2DXY	\$150.00	\$0	
(f) <u>Point-to-Point OC-192 Regenerator</u>				
-each	RGY	\$11,000.00	\$0	
(g) <u>1+1 Protection with Diversity<sup>(1)</sup></u>				(N)
-Per OC-192/OC-192c Local Distribution	P8T	(Apply P8T rate above, plus Per Quarter Route Mile below) (P8T + S2DXY)		
-Per Quarter Route Mile	S2DXY	\$150.00	\$0	
-Per OC-192/OC-192c	CPAPD	\$1200.00	\$0	(N)

<sup>(1)</sup> The 1+1 Protection with Route Survivability is required for each end of the second service.

Certain material previously appearing on this page now appears on 3rd Revised Page 21-30.

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## ACCESS SERVICE

21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.3 Rates and Charges (Cont'd)(D) OC-192/OC-192c (Cont'd)

(N)

(5) Moves (OC-192/OC-192c)

(M)

(a) Service Rearrangement

See Section 7.2.2, preceding for rates and charges.

(b) Moves of Point of Termination

See Section 7.2.3, preceding for rates and charges.

(c) Moving Customer Premises

See Section 7.2.3, preceding for rates and charges.

(M)

(E) Installation and Rearrangement Charges

	Administrative Charge, per Order	Design and Central Office Connection Charge, per circuit	Customer Connection, Charge, per termination
USOC	ORCMX	NRBCL	NRBBL
OC-3/OC-3c	\$60.00	\$ 375.00	\$450.00
OC-12/OC-12c	60.00	375.00	450.00
OC-48/OC-48c	60.00	500.00	600.00
OC-192/OC-192c	60.00	2,250.00	600.00

Certain material appearing on this page previously appeared on 2nd Revised Page 29-29.2.

(This page filed under Transmittal No. 130)

Issued: May 26, 2006

Effective: June 10, 2006

Four AT&T Plaza, Dallas, Texas 75202

## ACCESS SERVICE

26. Dedicated SONET Ring Service (Cont'd)26.1 General Description (Cont'd)(E) Responsibility of Customer

The customer is responsible for providing compatible Customer Provided Equipment (CPE) that is used for connection to Dedicated SONET Ring Service.

26.2 Technical Specifications

Technical specifications for Dedicated SONET Ring Service are listed in the following Telephone Company publications:

- (1) TP 76839 SONET Transmission Requirements Performance and Interface Specifications
- (2) AM TR-NIS-000111 Ameritech OC-3, OC-12, OC-48 and OC-192 Service Interface Specifications
- (3) AM TR-TMO-000101 Ameritech Digital Service Transmission Parameters for Performance
- (4) SBC-TP-76412-000 Customer Interface Standards for 100 Mbps and Higher Excluding SONET Interfaces

Dedicated SONET Ring Service offers the following SONET (Synchronous Optical Network) based Interfaces:

DS1 1.544 Mbps  
DS3 44.736 Mbps  
EC-1 51.84 Mbps  
OC-3 155.520 Mbps  
OC-3c 155.520 Mbps (concatenated)  
OC-12 622.080 Mbps  
OC-12c 622.080 Mbps (concatenated)  
OC-48 2488.320 Mbps  
Ethernet 100 Mbps  
Ethernet 1 Gbps

(N)

26.3 Rate Regulations(A) Rate Elements(1) Nodes

The ring will provide connectivity to multiple customer designated locations (nodes). However, a ring must have a minimum of two nodes, excluding sub-ring nodes. At least one node must be a Telephone Company CO node. A maximum of 16 nodes, including regenerators, will be allowed per ring.

The Telephone Company reserves the right to determine the order of the nodes on the ring.

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## ACCESS SERVICE

26. Dedicated SONET Ring Service (Cont'd)26.3 Rate Regulations (Cont'd)(A) Rate Elements (Cont'd)(3) Ports

Lower speed channels are accessible at nodes via port terminations. Ports provide access to lower-speed services at each node (e.g. DS1, DS3, EC-1, OC-3, 100 Mbps Ethernet, 1 Gbps Ethernet, and possibly OC-12, depending on the bandwidth of the ring). Port configuration requirements are provided by the customer when the Dedicated SONET Ring service is ordered. The capacity of the selected OC-3, OC-12 or OC-48 Dedicated SONET Ring service is determined by the number of individual port-to-port connections available between all nodes on the ring.

(N)

Accepted interfaces are as follows:

	OC-3 Node	OC-12 Node	OC-48 Node
DS1 Ports	X (Max. 84/Node)	X <sup>(1)</sup> (Max. 84/OC-3 or OC-3c Port)	X <sup>(1)</sup> (Max. 84/OC-3, OC-3c Port)
DS3 Ports	X (Max. 3/Node)	X (Max. 12/Node)	X (Max. 48/Node)
EC-1 Ports	X (Max. 3/Node)	X (Max. 12/Node)	X (Max. 48/Node)
OC-3/3c Ports <sup>(2)</sup>	X (Max. 1/Node)	X (Max. 4/Node)	X (Max. 16/Node)
OC-12/12c Ports <sup>(2)</sup>	N/A	X (Max. 1/Node)	X (Max. 4/Node)
OC-48/48c Ports <sup>(2)</sup>	N/A	N/A	X (Max. 1/Node)
100 Mbps (STS-1) Ethernet Port	X (Max. 3/Node)	X (Max. 12/Node)	X (Max. 48/Node)
100 Mbps (STS-3c) Ethernet Port	N/A	X (Max. 4/Node)	X (Max. 16/Node)
1 Gbps (STS-1) Ethernet Port	N/A	X (Max. 12/Node)	X (Max. 32/Node)
1 Gbps (STS-3c) Ethernet Port	N/A	X (Max. 4/Node)	X (Max. 16/Node)
1 Gbps (STS-12c) Ethernet Port	N/A	N/A	X (Max. 4/Node)
1 Gbps (STS-24c) Ethernet Port	N/A	N/A	X (Max. 2/Node)

(N)

By using the existing OC-3 or OC-12 Service and cross-connection capability, OC-3 point-to-point service may connect to an OC-3 port of an OC-12 or OC-48 ring, or OC-12 point-to-point service may connect to an OC-12 port of an OC-48 ring located in a Telephone Company CO.

An OC-3 port will permit the connection of STS-1 channels to other STS-1 channels across the OC-12 or OC-48 Dedicated SONET Ring Service, subject to the overall ring capacity limits described in 26.3(A)(7), following. Also, an STS-1 channel with DS1 payload mapping accessing an OC-12 Dedicated SONET Ring using an OC-3 port may be connected to the Optical-to-Electrical DS1 Add/Drop Capability for the purpose of connecting up to 28 DS1 ports. An STS-1 channel with DS3 payload mapping accessing the OC-12 or OC-48 Dedicated SONET Ring using an OC-3 port may individually connect to a DS3 or EC-1 port.

(T)

(N)

<sup>(1)</sup> Optical to Electrical DS1 Add/Drop Capability as described in 26.3(A)(5) is needed along with an OC-3 port.

<sup>(2)</sup> OC-3 and OC-3c ports support both OC-3 and OC-3c bandwidths. OC-12 and OC-12c ports support both OC-12 and OC-12c bandwidths. OC-48 and OC-48c ports support both OC-48 and OC-48c bandwidths.

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## ACCESS SERVICE

26. Dedicated SONET Ring Service (Cont'd)26.3 Rate Regulations (Cont'd)(A) Rate Elements (Cont'd)(6) Dedicated SONET Ring Regenerator

Regenerators provide essential detection and retransmission of SONET Optical 155.52 Mbps, 622.08 Mbps and 2488.32 Mbps signals between nodes. Regenerators will only be provided as required by the Telephone Company when actual fiber facility distances between nodes exceed inter-nodal design limits (typically 20 to 25 miles). Regenerators will be located exclusively in Telephone Company COs, and do not allow ports to access customer service connections.

(7) Dedicated SONET Ring Connection Capacity

Maximum transport capacity of OC-3, OC-12 and OC-48 Dedicated SONET Ring Service is characterized by the total quantity of individual port-to-port connections allowed between all nodes on the ring. The DS3 Port connections shown below in this section can be exchanged with EC-1 Port connections. (N)  
(N)

For OC-3 Dedicated SONET Ring Service, the maximum ring capacity will be equal to one of the following combinations:

DS3 Port to DS3 Port Connections		DS1 Port to DS1 Port Connections
Three	and	None
Two	and	Up to 28
One	and	Up to 56
None	and	Up to 84

An OC-3 Sub-ring provided as part of OC-12 or OC-48 Dedicated SONET Ring Service has a maximum capacity equal to one of the above combinations.

For OC-3 Dedicated SONET Ring Service and OC-3 Sub-rings as part of OC-12 or OC-48 Dedicated SONET Ring Service, individual DS1 port-to-DS1 port and DS3 port-to-DS3 port connection capacities may be incrementally distributed between nodes on the ring in any manner.

(This page filed under Transmittal No. 130)



## ACCESS SERVICE

26. Dedicated SONET Ring Service (Cont'd)26.3 Rate Regulations (Cont'd)(A) Rate Elements (Cont'd)(7) Dedicated SONET Ring Connection Capacity (Cont'd)

OC-48 Dedicated SONET Ring Service also provides capability for node-to-node connections of STS-12c channels using OC-12 ports on the OC-48 ring. Each STS-12c to STS-12c channel connection requested by the customer reduces the remaining ring capacity by the equivalent of twelve DS3 port-to-DS3 port connections or 336 DS1 port-to-DS1 port connections.

An OC-12 Sub-ring provided as part of OC-48 Dedicated SONET Ring Service reduces the remaining OC-48 ring capacity by the equivalent of twelve DS3 port-to-DS3 port connections or 336 DS1 port-to-DS1 port connections.

Ethernet over SONET (EoS) allows the efficient transport of Ethernet frames using SONET. Ethernet ports will be available in bandwidths up to the Ethernet interface of 100 Mbps or 1 Gbps on Dedicated SONET Ring Service as set forth in Section 26. As SONET bandwidths will be preset, the customer will be unable to transmit data (including any bursts) beyond these preset SONET bandwidths. Interfaces of 100 Mbps Ethernet or 1 Gbps Ethernet are available only to customers with Next Generation SONET equipment.

(8) Electrical Connection - Level 1 (EC-1)

EC-1 is an electrical interface that can transport up to 51.84 Mb of bandwidth in a concatenated format. The EC-1 port is available on an OC-3, OC-12 and OC-48 ring. For the above connection capacity charts, the quantity of EC-1 ports is equivalent to the connection capacity of a DS-3.

(N)  
|  
(N)

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## ACCESS SERVICE

26. Dedicated SONET Ring Service (Cont'd)26.3 Rate Regulations (Cont'd)(F) Shared Network Arrangement<sup>(1)</sup>

A Shared Network Arrangement is a service offering that enables a customer ("Service User") to connect subtending services to an OC-3, OC-12 or OC-48 Dedicated SONET Ring service of another customer (the "Host Subscriber"), with the Telephone Company maintaining separate billing for each. Each customer will be billed for those rate elements associated with their own portion of the service configuration. The Host Subscriber will be responsible for all Dedicated SONET Ring Service rate elements (for example, node, ports and mileage, etc). Under no circumstances will the rates or charges for individual rate elements be split. This offering is limited to service configurations where a Service User orders a subtending service dropped from a Host Subscriber's Dedicated SONET Ring wire center node.

Under the Shared Network Arrangement, the Telephone Company may share record information with the Host Subscriber pertaining to the services of other users of the shared network. Such disclosure will be under the sole discretion of the Telephone Company and is necessary to perform billing reconciliation and/or other functions required in connection with maintaining account records.

(G) Re-Map Service

Re-Map Service is provided in conjunction with Dedicated SONET Ring Service and allows for a pre-defined set of services to be re-routed by the Telephone Company from one customer premises node to another customer premises node (defined as a "Re-Map node") in the event of a customer premises disaster. Re-Map service will be tested at initial installation and once each year thereafter. Additional testing can be requested and will be charged on a per test basis. Activation upon customer request in the event of an emergency will be charged on a per occurrence basis.

Once the customer notifies the Telephone Company that they are ready to receive signals to the Re-Map node site, the Telephone Company will Re-Map up to 50 circuits within the initial hours and 20 circuits every hour thereafter. The Emergency Activation Nonrecurring Charge will not be applied if the first 50 circuits are not Re-Mapped within 4 hours due to a Telephone Company-caused delay.

Re-Map Service is available on Self-Healing Uni-Directional Path Switched Rings (UPSR) only.

(C)  
(C)

(1) Effective 05/26/06, this regulation is limited to existing customers. For new customers purchasing Shared Network Arrangement, terms and conditions set forth in Section 5.2 (D), will apply.

## ACCESS SERVICE

26. Dedicated SONET Ring Service (Cont'd)26.4 Rates and Charges (Cont'd)(A) Node (Cont'd)

Description	USOC	Nonrecurring Charge
Nonrecurring charges for subsequent installation		
-Per Node		
Customer Premises	NRBS7	\$400.00
Customer Premises Re-Map	NRBS7	400.00
Central Office	NRBSV	325.00

(B) OC-48 Add/Drop Capability

Description	USOC	36 Months	60 Months	Monthly Extension
Per Arrangement	MPEFX	\$3,510.00	\$2,895.00	\$4,350.00
Re-Map				
per arrangement	M8RFX	3,510.00	2,895.00	4,350.00
Nonrecurring charges for subsequent installation				
per arrangement	NRBS8			490.00

(C) Ports

Description	USOC	36 Months	60 Months	Monthly Extension
- <u>Per Port (excluding Re-Map)</u>				
DS1 at OC-3 Node	SPRAX	\$ 50.00	\$ 45.00	\$ 65.00
DS3 at OC-3 Node	SPRBX	120.00	110.00	150.00
EC-1 at OC-3 Node	S9NSX	120.00	110.00	150.00
OC-3 at OC-3 Node	S9T1X	350.00	300.00	550.00
DS3 at OC-12 Node	SPRCX	120.00	110.00	150.00
EC-1 at OC-12 Node	S9NUX	120.00	110.00	150.00
OC-3 or OC-3c at OC-12 Node	SPREX	150.00	135.00	190.00
DS1 at OC-12 Node <sup>(1)(2)</sup>	SPRGX	50.00	45.00	65.00
OC-12 at OC-12 Node	S9T2X	850.00	725.00	1,050.00

(N)

(N)

<sup>(1)</sup>Optical to Electrical DS1 add/drop capability as described in 26.3(A)(5) is needed along with an OC-3 port.

<sup>(2)</sup>The Optical-to-Electrical DS1 add/drop capability will be charged when the 85th DS1 port is applied per OC-12 node.

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## ACCESS SERVICE

26. Dedicated SONET Ring Service (Cont'd)26.4 Rates and Charges (Cont'd)(C) Ports (Cont'd)

Description	USOC	36 Months	60 Months	Monthly Extension
<u>-Per Port (excluding Re-Map)</u>				
OC-12 or OC-12c at OC-48 Node	SPRHX	375.00	360.00	475.00
OC-3 or OC-3c at OC-48 Node	SPRJX	150.00	135.00	190.00
DS3 at OC-48 Node	SPRKX	120.00	110.00	150.00
EC-1 at OC-48 Node	S9NVX	120.00	110.00	150.00
DS1 at OC-48 Node <sup>(1)</sup>	SPRLX	50.00	45.00	65.00
OC-48 at OC-48 Node	S9T3X	1,900.00	1,650.00	2,850.00
DS3 w/Transmux <sup>(2)</sup>	S4NGX	250.00	200.00	300.00
100 Mbps Ethernet (STS-1) at OC-3 Node	S9TAX	145.00	130.00	225.00
100 Mbps Ethernet (STS-1) at OC-12 Node	S9TBX	145.00	130.00	225.00
100 Mbps Ethernet (STS- 3c) at OC-12 Node	S9TCX	180.00	160.00	280.00
1 Gbps Ethernet (STS-1) at OC-12 Node	S9TDX	250.00	200.00	350.00
1 Gbps Ethernet (STS-3c) at OC-12 Node	S9TEX	250.00	200.00	350.00
100 Mbps Ethernet (STS-1) at OC-48 Node	S9TGX	145.00	130.00	225.00
100 Mbps Ethernet (STS- 3c) at OC-48 Node	S9THX	180.00	160.00	280.00
1 Gbps Ethernet (STS-1) at OC-48 Node	S9TJX	250.00	200.00	350.00
1 Gbps Ethernet (STS-3c) at OC-48 Node	S9TKX	250.00	200.00	350.00
1 Gbps Ethernet (STS-12c) at OC-48 Node	S9TLX	600.00	500.00	875.00
1 Gbps Ethernet (STS-24c) at OC-48 Node	S9TMX	900.00	850.00	1500.00

(N)

<sup>(1)</sup>Optical to Electrical DS1 add/drop capability as described in 26.3(A)(5) is needed along with an OC-3 port.<sup>(2)</sup>DS3 Transmux is only available on OC-3 and OC-12 Dedicated SONET Ring Services.

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## ACCESS SERVICE

26. Dedicated SONET Ring Service (Cont'd)26.4 Rates and Charges (Cont'd)(C) Ports (Cont'd)

Description	USOC	36 Months	60 Months	Monthly Extension
- Per port (Re-Map)				
Per DS1 Re-Map Block (consists of 28 DS1 ports) at				
OC-3 Ring	P8RAX	1,400.00	1,260.00	1,820.00
OC-12 Ring	P8RGX	1,400.00	1,260.00	1,820.00
OC-48 Ring	P8RLX	1,400.00	1,260.00	1,820.00
Per DS3 Re-Map Port				
OC-3 Ring	P8RBX	120.00	110.00	150.00
Per DS3 Re-Map Block (consists of 3 DS3 ports) at				
OC-12 Ring	P8RCX	360.00	330.00	450.00
OC-48 Ring	P8RKX	360.00	330.00	450.00
Per EC-1 Re-Map Port				
OC-3 Ring	S9N6X	120.00	110.00	150.00
OC-12 Ring	S9N8X	120.00	110.00	150.00
OC-48 Ring	S9N9X	120.00	110.00	150.00
Per OC-3,OC-3c Re-Map Port at				
OC-12 Ring	P8REX	150.00	130.00	190.00
OC-48 Ring	P8RJX	150.00	130.00	190.00
Per OC-12,OC-12c Re-Map Port at OC-48 Ring	P8RHX	375.00	350.00	475.00

Description	USOC	Nonrecurring Charge
Nonrecurring charges for subsequent installation		
- Per port type		
OC-48 or OC-48c	NRBN9	\$425.00
OC-12 or OC-12c	NRBSZ	400.00
OC-3 or OC-3c	NRBSW	400.00
EC-1	NRBSX	385.00
DS3	NRBSX	385.00
DS3 w/Transmux <sup>(1)</sup>	NRBSX	385.00
DS1	NRBSY	350.00
100 Mbps Ethernet STS-1	NRM63	385.00
100 Mbps Ethernet STS-3c	NRM64	385.00
1 Gbps Ethernet STS-1	NRM65	425.00
1 Gbps Ethernet STS-3c	NRM66	425.00
1 Gbps Ethernet STS-12c	NRM67	425.00
1 Gbps Ethernet STS-24c	NRM68	425.00

(1) DS3 Transmux is only available on OC-3 and OC-12 Dedicated SONET Ring Services.

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## ACCESS SERVICE

27. OC-192 Dedicated SONET Ring Service (Cont'd)27.2 Technical Specifications

Technical specifications for OC-192 Dedicated SONET Ring Service are listed in the following Telephone Company technical publications:

- (1) AM TR-TMO-000101 Ameritech Digital Service Transmission Parameters for Performance
- (2) AM TR-NIS-000111 Ameritech OC-3, OC-12, OC-48 and OC-192 Service Interface Specifications
- (3) TP 76839 SONET Transmission Requirements Performance and Interface Specification
- (4) SBC-TP-76412-000 Customer Interface Standards for 100 Mbps and Higher Excluding SONET Interfaces

27.3 Rate Regulations(A) Rate Elements(1) Nodes

The ring will provide connectivity to multiple customer designated locations (nodes). However, a ring must have a minimum of two nodes. At least one node must be a Telephone Company CO node. A maximum of 16 nodes, including regenerators, will be allowed per ring. The Telephone Company reserves the right to determine the order of the nodes on the ring<sup>(1)</sup>.

When a customer premises node is located in the same building as a CO node, diversity between the two nodes may not be available.

If a customer collocates two customer premises nodes of the same speed, on the same dedicated ring, on the same premises, the additional node will be billed as shown in 27.4, following. This option does not guarantee diversity between these two collocated nodes and the rest of the ring.

The customer will be billed time and material, as set forth in Section 13, for any additional charges incurred by the Telephone Company in locating Telephone Company equipment at the customer premises.

(i) Re-Map Node

A Re-Map node is a ring node that is pre-equipped and dedicated to customer traffic that is re-mapped/re-routed to it by the Telephone Company (upon notification by the customer of a service outage at another customer premises node on the same dedicated ring).

Re-Map is designed as a temporary service for disaster recovery purposes only. No "normal" customer traffic will be added/dropped at the Re-Map node unless the Re-Map service is activated.

(N)

(N)

<sup>(1)</sup> A ring node providing an OC-48 connection to a collocation cage can be considered a customer premise node.

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## ACCESS SERVICE

27. OC-192 Dedicated SONET Ring Service (Cont'd)27.3 Rate Regulations (Cont'd)(A) Rate Elements (Cont'd)(2) Add/Drop Capability

This provides the capability to add/drop lower speed channels from an OC-192 Dedicated SONET Ring Service node location via OC-48 or OC-12 ports. OC-192 Add/Drop Capability at an OC-192 Dedicated SONET Ring Service node location will support various combinations of service traffic not to exceed 192 STS-1 equivalents, contingent upon limitations of drop port capacity.

(3) Ports

Ports provide access to the ring and to lower speed channels (DS3, EC-1, OC-3, OC-3c, OC-12, OC-12c, OC-48, OC-48c, OC-192, 100 Mbps (STS-1) Ethernet, 100 Mbps (STS-3c) Ethernet, 1 Gbps (STS-1) Ethernet, 1 Gbps (STS-3c) Ethernet, 1 Gbps (STS-12c) Ethernet and 1 Gbps (STS-24c) Ethernet) between nodes. Lower speed channels are accessible at nodes via port terminations.

(N)

Ethernet over SONET (EoS) allows the efficient transport of Ethernet frames using SONET. Ethernet ports will be available in bandwidths up to the Ethernet interface of 100 Mbps or 1 Gbps on SONET Ring Services as set forth in respective tariffs. As SONET bandwidths will be preset, the customer will be unable to transmit data (including any bursts) beyond these preset SONET bandwidths. Interfaces of 100 Mbps Ethernet or 1 Gbps Ethernet are available only to customers with Next Generation SONET equipment. Access into the Telephone Company's Ethernet ports must conform to industry standards and specifications as described in technical publication SBC-TP-76412-000.

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## ACCESS SERVICE

27. OC-192 Dedicated SONET Ring Service (Cont'd)27.3 Rate Regulations (Cont'd)(A) Rate Elements (Cont'd)(3) Ports (Cont'd)

Accepted interfaces are as follows:

	OC-192 Node
DS1 Ports	x(Max.84/OC-3Port)
DS3 Ports	x(Max.192/Node)
EC-1 Ports	x(Max.192/Node)
OC-3, OC-3c Ports	64
OC-12, OC-12c Ports	16
OC-48, OC-48c Ports	4
OC-192 Ports <sup>(1)</sup>	x(Max.1/Node)
100 Mbps (STS-1) Ethernet Ports	48
100 Mbps (STS-3c) Ethernet Ports	16
1 Gbps (STS-1) Ethernet Ports	32
1 Gbps (STS-3c) Ethernet Ports	16
1 Gbps (STS-12c) Ethernet Ports	2
1 Gbps (STS-24c) Ethernet Ports	2

(N)  
(T)  
(N)  
(T)  
(T)  
(T)  
(C)  
(N)  
(N)  
(N)  
(T)  
(T)  
(T)

OC-3, OC-3c, OC-12, OC-12c, OC-48 and OC-48c ports may be ordered at CO nodes. Both are available for Service-to-Service Through Connect with Broadband Circuit Service (BCS)\* or Optical Carrier Network Point-to-Point Service as set forth in Section 21.

(4) Mileage

Mileage is charged as specified in Section 7.2.1(B). Fractions of a mile are rounded up to the whole mile for rate calculations. A one-mile minimum will be billed between nodes. A two-node ring configuration has a two-mile minimum, one mile from the wire center node to the customer premises node, and one mile from the customer premises node to the wire center node.

(5) Ring Regenerator

Regenerators provide essential detection and retransmission of the SONET Optical 9.953 Gbps signal between nodes. Regenerators will only be provided as required by the Telephone Company when actual fiber facility distances between nodes exceed inter-nodal design limits. Regenerators will be located exclusively in Telephone Company COs, and do not allow ports to access customer service connections.

(6) Electrical Connection - Level 1 (EC-1)

EC-1 is an electrical interface that can transport up to 51.84 Mb of bandwidth in a concatenated format. The EC-1 port is available on an OC-3, OC-12, OC-48 and OC-192 ring. For the above connection capacity charts, the quantity of EC-1 ports is equivalent to the connection capacity of a DS-3.

(N)  
|  
(N)

\*Effective, January 11, 2002, BCS will no longer be available to customers. Grandfathered BCS Customers will maintain their existing service arrangement until their contract expires unless they choose to convert to another service. No changes to existing BCS service arrangements will be permitted, nor will any renewals be allowed.

(1) OC-192 and OC-192c ports support both OC-192 and OC-192c bandwidths.

(N)

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## ACCESS SERVICE

27. OC-192 Dedicated SONET Ring Service (Cont'd)27.3 Rate Regulations (Cont'd)(I) Optical-to-Electrical DS3 Add/Drop Capability

This option allows an electrical DS3 to be derived from an optical OC-3, OC-12, OC-48 or OC-192 shelf. The manner in which a DS3 is dropped will be designed based on forecast and equipment hierarchy.

(D)

(D)

Effective 06/10/06, DS-1 Optical-to-Electrical Add/Drop Capability will be available from an optical OC-192 shelf.

(N)

(J) Re-Map Service

Re-Map Service is provided in conjunction with Dedicated SONET Ring Service and allows for a pre-defined set of services to be re-routed by the Telephone Company from one customer premises node to another customer premises node (defined as a "Re-Map node") in the event of a customer premises disaster. Re-Map service will be tested at initial installation and once each year thereafter. Additional testing can be requested and will be charged on a per test basis. Activation upon customer request in the event of an emergency will be charged on a per occurrence basis.

Once the customer notifies the Telephone Company that they are ready to receive signals to the Re-Map node site, the Telephone Company will Re-Map up to 50 circuits within the initial hours and 20 circuits every hour thereafter. The Emergency Activation Nonrecurring Charge will not be applied if the first 50 circuits are not Re-Mapped within 4 hours due to a Telephone Company-caused delay.

Re-Map testing and activation for OC-192 service requires a minimum of one DS1 (VT1.5), or 1 DS3 (STS-1) between one customer premises node and the Re-Map node. Re-Map testing or activation for OC-12 or OC-48 service requires a minimum incremental group from 1 to 28 DS1s or one DS3 (equals one STS-1) between one customer premises node and the Re-Map node.

The emergency Re-Map activation configuration will be maintained for up to 30 days. After 30 days, if the customer wishes to maintain the emergency configuration, the Emergency Activation Nonrecurring Charge will be applied once for each 30 day additional period.

Re-Map Service is available on Self-Healing Uni-Directional Path Switched Rings (UPSR) only.

(N)

(D)

(D)

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## ACCESS SERVICE

27. OC-192 Dedicated SONET Ring Service (Cont'd)27.4 Rates and Charges(A) Nodes

Description	USOC	3 year	5 Year	Monthly Extension	
- Customer Premises					
First	GP5AX	\$19,800.00	\$14,400.00	\$33,000.00	(N)
First Re-Map	RNFAX	19,800.00	16,000.00	33,000.00	
Additional	GP5AA	17,800.00	13,000.00	29,475.00	(N)
Additional Re-Map	RNFAX	17,800.00	14,200.00	29,475.00	
- Central Office	GC5AX	17,800.00	13,000.00	29,475.00	

Description	USOC	Nonrecurring Charge	
Nonrecurring charges for subsequent installation			
- Per Node			
Customer Premises	NRBS7	\$400.00	
Customer Premises Re-Map	NRBS7	400.00	(N)
Central Office	NRBSV	325.00	

(B) Add/Drop Capability

Description	USOC	3 year	5 Year	Monthly Extension
Per Arrangement	MXRGX	\$4,500.00	\$3,240.00	\$7,000.00
-(per node) <sup>(1)</sup> not to exceed any configurable combination of ports beyond 192 STS-1 equivalents				

(C) Ports

Description	USOC	3 year	5 Year	Monthly Extension	
- Per Port					(M)
DS1	S9QWX	50.00	45.00	65.00	(N)
DS3	S9QGX	120.00	110.00	150.00	(T)
EC-1	S9TZX	120.00	110.00	150.00	(N)
OC-3,OC-3c	S9NEX	135.00	120.00	225.00	(M)
OC-12,OC-12c	S9NGX	325.00	300.00	550.00	(M)
OC-48,OC-48c	S9NJX	825.00	760.00	1,425.00	(M)
OC-192 at OC-192 Node	S9T4X	3,300.00	3,000.00	5,700.00	(M)
100 Mbps Ethernet (STS-1) at OC-192	S9TNX	145.00	130.00	225.00	(N)
100 Mbps Ethernet (STS-3c) at OC-192	S9TOX	180.00	160.00	280.00	
1 Gbps Ethernet (STS-1) at OC-192	S9TPX	250.00	200.00	350.00	(N)
1 Gbps Ethernet (STS-3c) at OC-192 node*	S9TQX	250.00	200.00	350.00	(M)
1 Gbps Ethernet (STS-12c) at OC-192 node*	S9TRX	600.00	500.00	875.00	
1 Gbps Ethernet (STS-24c) at OC-192 node*	S9TSX	900.00	850.00	1,500.00	(M)

<sup>(1)</sup> The OC192 Add/Drop Capability charge is applied to all nodes, excluding regenerators.

Certain material appearing on this page previously appeared on Original Page 27-16.

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## ACCESS SERVICE

27. OC-192 Dedicated SONET Ring Service (Cont'd)27.4 Rates and Charges (Cont'd)(C) Ports (Cont'd)

Description	USOC	36 Months	60 Months	Monthly Extension	(T) (N)
- Per port (Re-Map) Per DS1 Re-Map Block (consists of 28 DS1 ports) at OC-192 Ring	RN76X	\$1400.00	\$1260.00	\$1820.00	
Per DS3 Re-Map Block (consists of 3 DS3 ports at OC-192 Ring	RN77X	360.00	330.00	400.00	
Per DS3 Re-Map Port at OC-192 Ring	RN71X	120.00	110.00	150.00	
Per EC-1 Re-Map Port at OC-192 Ring	S4NMX	120.00	110.00	150.00	
Per OC-3 Re-Map Port at OC-192 Ring	RN72X	150.00	135.00	190.00	
Per OC-12 Re-Map Port at OC-192 Ring	RN73X	375.00	360.00	475.00	
Per OC-48 Re-Map Port at OC-192 Ring	RN74X	825.00	700.00	1425.00	

Description	USOC	Nonrecurring Charge	(N)
Nonrecurring charges for subsequent installation			
- Per port type			
DS1	NRBSY	\$350.00	(N)
DS3	NRBSX	385.00	
EC-1	NRBSX	385.00	(N)
OC-3,OC-3c	NRBSW	400.00	
OC-12,OC-12c	NRBSZ	400.00	
OC-48,OC-48c	NRBN9	425.00	
OC-192	NRBN2	750.00	
100 Mbps Ethernet (STS-1) at OC-192 node	NRM63	385.00	(N)
100 Mbps Ethernet (STS-3c) at OC-192 node	NRM64	385.00	(N)
1 Gbps Ethernet (STS-1) at OC-192 node	NRM65	385.00	(N)
1 Gbps Ethernet (STS-3c) at OC-192 node	NRM66	425.00	
1 Gbps Ethernet (STS-12c) at OC-192 node	NRM67	425.00	
1 Gbps Ethernet (STS-24c) at OC-192 node	NRM68	425.00	

Certain material previously appearing on this page now appears on 1st Revised  
Page 27-15 and 1st Revised Page 27-17.

(This page filed under Transmittal No. 130)

Issued: May 26, 2006

Effective: June 10, 2006

Four AT&T Plaza, Dallas, Texas 75202

## ACCESS SERVICE

27. OC-192 Dedicated SONET Ring Service (Cont'd)27.4 Rates and Charges (Cont'd)(D) Mileage

Description	USOC	3 Year	5 Year	Monthly Extension
Per mile between nodes <sup>(2)</sup>	1YAZX	\$260.00	\$210.00	\$330.00

(M)

(M)

(E) Ring Regenerator

	USOC	3 Year	5 Year	Monthly Extension
Each (as required)	RGY	\$9,250.00	\$7,000.00	\$13,875.00

Description	USOC	Nonrecurring Charge
Nonrecurring charges for subsequent installation of Regenerator - Each (as required)	NRBS5	\$270.00

(F) Shared Network Arrangement

Description	USOC	Nonrecurring Charge
Processing Charge Per Service Order	NRMCL	\$30.00

(G) Installation and Administrative Charges

Description	USOC	Nonrecurring Charge
Administrative Charge per Service Order	ORCMX	\$60.00
Design and Central Office Connection Charge, per Initial Ring	NRMCK	2,250.00 <sup>(1)</sup>

(1) Per Ring Charge for Dedicated Ring Service is applied once per original ring installed.

(2) A two-node ring configuration has a two-mile minimum, one mile from the CO node to the customer premise node, and one mile from the customer premise node to the CO node.

Certain material appearing on this page previously appeared on Original Page 27-16.

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(This page filed under Transmittal No. 130)

Issued: May 26, 2006

Effective: June 10, 2006

Four AT&T Plaza, Dallas, Texas 75202

## ACCESS SERVICE

27. OC-192 Dedicated SONET Ring Service (Cont'd)27.4 Rates and Charges (Cont'd)(G) Installation and Administrative Charges (Cont'd)

(N)

Description	USOC	Nonrecurring Charge
Re-Map Service		
Initial Service Script Establishment/ Test Charge	NRMR1	\$5,500.00
Subsequent Script Activity Charge	NRMR3	3,200.00
Scheduled Test Charge	NRMR5	4,200.00
Emergency Re-Map Activation (per request)	NRMR7	5,000.00

(N)

(H) Optical-to-Electrical Add/Drop Capability

Description	USOC	36 Months	60 Months	Monthly Extension
Per Arrangement <sup>(1)</sup> - per node) not to exceed any configurable combination of ports beyond 192 STS-1 equivalents	MXJGX	\$2,500.00	\$2,000.00	\$3,500.00

Description	USOC	Nonrecurring Charge
Subsequent Installation Optical/Electrical of DS3 Add/Drop	NRBS8	\$490.00

<sup>(1)</sup> When electrical drops are required, the Optical-to-Electrical Add/Drop Capability charge is applied in addition to the Add/Drop Capability charge set forth in Section 27.4(B), preceding.

(This page filed under Transmittal No. 130)