

ACCESS SERVICES

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⁽¹⁾ Material in this section has been de-tariffed as required by the Commission upon use of the forbearance relief pursuant to FCC Memorandum Opinion and Order No. 07-180 released October 12, 2007. Terms and Conditions associated with de-tariffed services are available at www.att.com/guidebook.

(This page filed under Transmittal No. 176)

ACCESS SERVICES

27. ⁽¹⁾

(D)

⁽¹⁾ See footnote (1) on page 27-1

(This page filed under Transmittal No. 176)

ACCESS SERVICES

27. ⁽¹⁾

(D)

⁽¹⁾ See footnote (1) on page 27-1

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(D)

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(This page filed under Transmittal No. 176)

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(D)

⁽¹⁾ See footnote (1) on page 27-1

(This page filed under Transmittal No. 176)

ACCESS SERVICES

27. ⁽¹⁾

(D)

⁽¹⁾ See footnote (1) on page 27-1

(This page filed under Transmittal No. 176)

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.

The OC-192 Add/Drop Capability charge is applied to all nodes, excluding regenerators and CO nodes without drop ports.

(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.

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. Only Single-Mode Fiber is available in the Central Office. The EoS line rates, defined in Section 27.4(C), are based on the theoretical SONET payload line rates as per GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.

(This page filed under Transmittal No. 169)

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	x(Max.64/Node)
OC-12, OC-12c Ports	x(Max.16/Node)
OC-48, OC-48c Ports	x(Max.4/Node)
OC-192 Ports ⁽¹⁾	x(Max.1/Node)
100 Mbps (STS-1) Ethernet Ports	x(Max.192/Node)
100 Mbps (STS-3c) Ethernet Ports	x(Max.64/Node)
1 Gbps (STS-1) Ethernet Ports	x(Max.192/Node)
1 Gbps (STS-3c) Ethernet Ports	x(Max.64/Node)
1 Gbps (STS-12c) Ethernet Ports	x(Max.16/Node)
1 Gbps (STS-24c) Ethernet Ports	x(Max.8/Node)
10/100 BaseT Ethernet Port	
VT1.5-1v (1.6 Mbps)	X (Max. 84/OC-3)
VT1.5-2v (3.2 Mbps)	X (Max. 42/OC-3)
VT1.5-3v (4.8 Mbps)	X (Max. 28/OC-3)
VT1.5-4v (6.4 Mbps)	X (Max. 21/OC-3)
VT1.5-5v (8.0 Mbps)	X (Max. 16/OC-3)
VT1.5-6v (9.6 Mbps)	X (Max. 14/OC-3)
VT1.5-7v (11.2 Mbps)	X (Max. 12/OC-3)
VT1.5-8v (12.40 Mbps)	X (Max. 10/OC-3)
VT1.5-10v (16.0 Mbps)	X (Max. 8/OC-3)
VT1.5-13v (20.8 Mbps)	X (Max. 6/OC-3)
STS-1-1v (48.38 Mbps)	X (Max. 192/Node)
STS-1-2v (96.77 Mbps)	X (Max. 96/Node)
1000 BaseSX/LX Ethernet Port	
STS-1-1v (48.38 Mbps)	X (Max. 192/Node)
STS-1-2v (96.77 Mbps)	X (Max. 96/Node)
STS-1-3v (145.15 Mbps)	X (Max. 64/Node)
STS-1-4v (193.54 Mbps)	X (Max. 48/Node)
STS-1-5v (241.92 Mbps)	X (Max. 38/Node)
STS-1-6v (290.30 Mbps)	X (Max. 32/Node)
STS 1-9v (435.46 Mbps)	X (Max. 21/Node)
STS-1-12v (580.61 Mbps)	X (Max. 16/Node)
STS-1-21v (1016.06 Mbps)	X (Max. 9/Node)
STS-3c-1v (149.76 Mbps)	X (Max. 64/Node)
STS-3c-2v (299.52 Mbps)	X (Max. 32/Node)
STS-3c-3v (449.28 Mbps)	X (Max. 21/Node)
STS-3c-4v (599.04 Mbps)	X (Max. 16/Node)
STS-3c-7v (1048.32 Mbps)	X (Max. 9/Node)

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

Certain material previously appearing on this page now appears on Original Page 27-7.1.

(This page filed under Transmittal No. 169)

ACCESS SERVICE

27. OC-192 Dedicated SONET Ring Service (Cont'd) (N)

27.3 Rate Regulations (Cont'd)

(A) Rate Elements (Cont'd) (N)

(3) Ports (Cont'd) (M)

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.

*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.

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Certain material appearing on this page previously appeared on 1st Revised Page 27-7.

(This page filed under Transmittal No. 169)

ACCESS SERVICE

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

27.3 Rate Regulations (Cont'd)

(B) Dedicated Ring Connection Capacity

Maximum transport capacity of OC-192 Dedicated SONET Ring Service is characterized by the total quantity of individual port-to-port connections allowed between all nodes on the ring.

For OC-192 Dedicated SONET Ring Service, the maximum ring capacity between adjacent nodes is not to exceed 96 STS-1 equivalents.

OC-192 Dedicated SONET Ring Service will provide capability for node-to-node connection of STS-1 or STS-3c channels using OC-3, OC-3c, OC-12, OC-12c, OC-48, OC-48c, 100 Mbps Ethernet or 1 Gbps Ethernet ports on the OC-192 ring.

OC-192 Dedicated SONET Ring Service will provide capability for node-to-node connections of STS-12c channels using OC-12, OC-12c, OC-48, OC-48c or 1 Gbps Ethernet ports on the OC-192 ring.

OC-192 Dedicated SONET Ring Service will provide capability for node-to-node connections of STS-48c channels using OC-48 or OC-48c ports on the OC-192 ring.

Virtual Concatenation (VCAT) provides the ability and flexibility to size the customer's bandwidth, sub-rate VT1.5 and super-rate STS-1 and 3c service payloads, based on their traffic requirements. For transport of payloads that do not fit efficiently into the standard set of VT1.5, STS-1 and STS-Nc payload envelopes, virtual concatenation can be used.

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(This page filed under Transmittal No. 169)

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27. ⁽¹⁾

(D)

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ACCESS SERVICES

27. ⁽¹⁾

(D)

⁽¹⁾ See footnote (1) on page 27-1

(This page filed under Transmittal No. 176)

ACCESS SERVICE

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

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27.4 Rates and Charges (Cont'd)

(C) Ports (Cont'd)

Description	USOC	3 year	5 Year	Monthly Extension
EoS Ports				
Virtual Concatenation(VCAT) ⁽¹⁾				
- per multiplexing function				
10/100 BaseT Ethernet Port	S5P1X	250.00	180.00	350.00
Bandwidth options for port ⁽²⁾⁽⁴⁾⁽⁵⁾				
VT1.5-1v (1.6 Mbps)				
VT1.5-2v (3.2 Mbps)				
VT1.5-3v (4.8 Mbps)				
VT1.5-4v (6.4 Mbps)				
VT1.5-5v (8.0 Mbps)				
VT1.5-6v (9.6 Mbps)				
VT1.5-7v (11.2 Mbps)				
VT1.5-8v (12.4 Mbps)				
VT1.5-10v (16.0 Mbps)				
VT1.5-13v (20.8 Mbps)				
STS-1-1v (48.38 Mbps)				
STS-1-2v (96.77 Mbps)				
1000 Base SX Ethernet Port	S5P2X	425.00	350.00	500.00
1000 Base LX Ethernet Port	S5P3X	425.00	350.00	500.00
Bandwidth options for port ⁽³⁾⁽⁴⁾⁽⁵⁾				
STS-1-1v (48.38 Mbps)				
STS-1-2v (96.77 Mbps)				
STS-1-3v (145.15 Mbps)				
STS-1-4v (193.54 Mbps)				
STS-1-5v (241.92 Mbps)				
STS-1-6v (290.30 Mbps)				
STS-1-9v (435.46 Mbps)				
STS-1-12v (580.61 Mbps)				
STS-1-21v (1016.06 Mbps)				
STS-3c-1v (149.76 Mbps)				
STS-3c-2v (299.52 Mbps)				
STS-3c-3v (449.28 Mbps)				
STS-3c-4v (599.04 Mbps)				
STS-3c-7v (1048.32 Mbps)				

⁽¹⁾Nonrecurring charges apply to EoS Ports, Virtual Concatenation (VCAT). See EoS Port charges on Page 27-16, for applicable nonrecurring charges.

⁽²⁾Actual payload capacity for selected bandwidth.

⁽³⁾Actual Payload capacity for selected bandwidth applies to both SX and LX.

⁽⁴⁾Only Single-Mode Fiber is available in the Central Office.

⁽⁵⁾The EoS line rates defined herein are based on the theoretical SONET payload line rates as per GR-253-CORE, Issue 4. These values are not representative of the true Ethernet transport capacity of the EoS circuit.

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(This page filed under Transmittal No. 169)

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
- 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 DS3 Transmux Re-Map ⁽¹⁾	RN7TX	200.00	200.00	300.00
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	
Nonrecurring charges for subsequent installation			
- Per port type			
DS1	NRBSY	\$350.00	
DS3	NRBSX	385.00	
DS3 w/Transmux ⁽¹⁾	NRBSX	385.00	
EC-1	NRBSX	385.00	
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	
100 Mbps Ethernet (STS-3c) at OC-192 node	NRM64	385.00	
1 Gbps Ethernet (STS-1) at OC-192 node	NRM65	385.00	
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	
10/100 BaseT Ethernet Port	NRM63	385.00	
1000 BaseLX Ethernet Port	NRM65	425.00	(N)
1000 BaseSX Ethernet Port	NRM66	425.00	(N)

⁽¹⁾ AVAILABLE FOR RINGS ESTABLISHED ON OR AFTER 10/17/06.

(This page filed under Transmittal No. 169)

ACCESS SERVICES

27. ⁽¹⁾

(D)

⁽¹⁾ See footnote (1) on page 27-1

(This page filed under Transmittal No. 176)

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(D)

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